6. WATER QUALITY OF CORPUS CHRISTI BAY

The derivative data bases developed according to the procedures of Section 4.3 for each of the study parameters formed the basis for characterization of water quality in Corpus Christi Bay, presented in this chapter. By "characterization" is meant the water-quality "climate" of Corpus Christi Bay, as evidenced in objective statistical analysis of the historical data base. This characterization entails both the spatial dimension and the temporal, the latter including the analysis of trends in time. The word "climate" is well-chosen, because of its analog with individual experience, *viz.* the weather-climate dichotomy, serving to remind oneself that this characterization is the "average" or "representative" behavior of a suite of parameters that individually exhibit a high degree of variability. Moreover, it cautions one to avoid attaching too much significance to isolated measurements.

One must realize that Corpus Christi Bay is under-sampled, relative to the time and space scales of natural variability. Therefore, any partitioning of the data in space or time involves trade-offs in statistical confidence. The more spatial segments that are defined (i.e., the smaller their spatial extent), the fewer data points that will be placed in each segment. Similarly, the coarser a variable is sampled in time, the greater the "noise" induced by randomly encountering smaller scales of variation, e.g. tides. If gross temporal cycles, such as seasonal variation, are extracted by partitioning the data in time, a similar trade-off occurs between detail of time variation that can be resolved and fewer data points per time segment. An additional source of noise is the fact that the period of record will vary between space/time segments, due to the differing operations of the various historical sampling projects from which data were obtained.

Thus, even if the individual quality parameters were measured with absolute precision, the sampling strategies and the aggregation and analysis of data would introduce statistical variation. But, of course, the individual measurements themselves are subject to analytical error. As a preliminary to analysis, Table 6-1 summarizes the principal water quality parameters and a nominal estimate of the uncertainty of measurement of each. These were developed from the data of Ward and Armstrong (1992a), in turn compiled from their study of historical laboratory procedural accuracy and precision data. Reference is made to the discussion of uncertainty in Section 4.2.3. The nominal uncertainty is given in Table 6-1 as a standard deviation, expressed as a fraction of the measurement (based upon typical values in Texas coastal waters when the standard deviation does not vary directly with parameter value). While establishment of the uncertainty for most of the parameters of Table 6-1 is based upon a relatively small sampling of lab intercomparisons, and is therefore subject to considerable uncertainty itself, the important conclusion from the data of this table is that most parameters are not measured with a high level of accuracy. For a high probability the associated confidence bounds are two or three times the standard deviation, the latter corresponding to the intuitive notion of tolerance. Thus, for ammonia the 98%-probable value lies nominally within ±60% of the measurement. This translates to an additional, and in many cases considerable, source of variation in the data.

TABLE 6-1

NOMINAL UNCERTAINTY IN MEASUREMENT OF WATER QUALITY PARAMETERS
(See Table 2-1 for definition of abbreviations)

abbreviation	*units*	*nominal standard deviation (as percentage of value)*
	Conventional Parameters	
WQTEMP	degrees Celsius	1
WQSAL	parts per thousand	1
WQDO	mg/L	2
WQDODEF	mg/L	5
WQPH	pH units	5
WQTURB	NTU, JTU	10
WQXTSS	mg/L	10
WQAMMN	mg/L	20
WQORGN	mg/L	20
WQKJLN	mg/L	20
WQNO3N	mg/L	25
WQTOTP	mg/L	15
WQVOLS	mg/L	10
WQVSS	mg/L	20
WQO&G	mg/L	10
WQTOC	mg/L	10
WQXBOD5	mg/L	20
WQCHLA	µg/L	20
WQTCOLI	org/100 mL	200
WQFCOLI	org/100 mL	200
	Metals	
WQMETAST	µg/L	35
WQMETASD	µg/L	35
WQMETBAT	µg/L	15
WQMETBAD	µg/L	25
WQMETB	µg/L	25
WQMETCDT	µg/L	15
WQMETCDD	µg/L	20
WQMETCRT	µg/L	100
WQMETCRD	µg/L	100
WQMETCUT	µg/L	25
WQMETCUD	µg/L	100
WQMETFET	µg/L	20
WQMETFED	µg/L	100
WQMETPBT	µg/L	10
WQMETPBD	µg/L	20

(continued)

TABLE 6-1
(continued)

abbreviation	*units*	*nominal standard deviation (as percentage of value)*
	Metals (continued)	
WQMETMNT	µg/L	100
WQMETMND	µg/L	35
WQMETHGT	µg/L	40
WQMETHGD	µg/L	40
WQMETNIT	µg/L	20
WQMETNID	µg/L	30
WQMETSET	µg/L	50
WQMETSED	µg/L	50
WQMETAGT	µg/L	50
WQMETAGD	µg/L	50
WQMETZNT	µg/L	15
WQMETZND	µg/L	100
	Organics	
WQ-ABHC	µg/L	10
WQ-LIND	µg/L	10
WQ-XDDT	µg/L	10
WQ-ALDR	µg/L	5
WQ-CHLR	µg/L	15
WQ-DIEL	µg/L	5
WQ-ENDO	µg/L	25
WQ-ENDR	µg/L	5
WQ-TOXA	µg/L	30
WQ-HEPT	µg/L	5
WQ-MTHX	µg/L	5
WQ-PCB	µg/L	25
WQ-MALA	µg/L	35
WQ-PARA	µg/L	10
WQ-DIAZ	µg/L	20
WQ-MTHP	µg/L	10
WQ-24D	µg/L	10
WQ-245T	µg/L	10
WQ-PAH	µg/L	20

6.1 Spatial Variation in Water Quality

Table 5-2 summarized the data record for water analytes in Corpus Christi Bay, presenting summary statistics for the bay as a whole. These statistics, which were based upon unscreened data apart from the limits on bounds given in Table 4-1 (and therefore may be of eroded accuracy due to spurious entries), take no account of the considerable variation within the bay. In order to better delineate the spatial variation of water quality parameters, it is necessary to aggregate the data according to position. The data record for each parameter was sorted into two different segmentations of the bay: the Texas Natural Resource Conservation Commission (TNRCC) Water Quality segments, and the hydrographic segments developed for this project. Both segmentation systems are described in Chapter 3, and the specific defining quadrilaterals are given in the Appendix, Tables A-4 and A-5. As emphasized in Section 3.1, any such segmentation is based upon the assumption that each segment is homogeneous, within an allowable scatter in the data (i.e., within a certain statistical confidence), and therefore data from that segment can be considered independent measurements of the same variate. Such an approach, i.e. of aggregating data from stations that do not coincide but are within a "neighborhood" of each other, is necessary because of the sparsity of the data record in Corpus Christi Bay, as discussed in Chapter 5.

To reiterate the discussion of Chapter 3, the differences between the TNRCC and hydrographic-area segmentations are: (1) the TNRCC segments tend to be larger in space, especially within the open bay, and may have arbitrary or political boundaries; (2) the hydrographic-area segments are smaller in spatial extent and are defined by principal geomorphic controls on flow and/or known predominant flow patterns; (3) the TNRCC segments include tributaries of the principal inflows; (4) the hydrographic-area segments focus upon the bay system *per se*, its immediate periphery, and the nearshore Gulf of Mexico, but do not encompass the upper reaches of the tributaries. Analysis by TNRCC segments, which was specified by the CCBNEP Management Conference as a requirement of this study, has the advantages of: (a) treating a smaller number of segments, (b) corresponding to the administrative framework for Corpus Christi Bay, and therefore allowing direct comparison with standards and past surveys. On the other hand, analysis by hydrographic segments allows: (a) better spatial definition of variability, especially in the open bay, and (b) more realistic definition of areas that are nearly homogeneous, i.e., based upon hydrographic controls rather than political boundaries or convenience of access, therefore greater precision in the analyzed data.

While spatial variability is better delineated by using smaller spatial segments, the statistical confidence in the values at each segment is reduced because of the fewer number of data points. To improve the number of data points by aggregating into larger segments is to introduce more "noise" in the data due to spatial variability; the ultimate extreme of this strategy is the baywide analysis given in Tables 5-2 and 5-3, in which all available data are used to compute the statistics, but the high variance renders the computed statistics practically useless. The hydrographic segmentation developed in this study, in which the bay system and periphery are subdivided into 178 segments, represents our best compromise between a sufficient data record in each segment for meaningful analyses and a sufficiently small and well-defined segment domain so as to reduce the spatially-induced "noise." Even at this, as shown by the sampling density maps of Figs. 5-1 *et seq.*, a majority of the segments are so undersampled for most parameters as to be indeterminate.

The segmentation philosophy followed in this project is to require that any location in the bay lies within exactly one segment. While this is not rigorously necessary for water-quality analysis purposes, it greatly facilitates the census aspects of this status-and-trends project. However, we make one exception to this philosophy. Recall (Section 3.3.3) that the Gulf of Mexico segments and those defined for the estuarine areas overlap in areas within the tidal inlets to the system. Therefore sampling stations located within the inlets will be captured in both the estuarine segment and the Gulf of Mexico segment. This is deliberate. These transitional stations are considered to be indicative of both the nearshore Gulf of Mexico environment as well as that within the inlet itself, and therefore need to be included in both data subsets. However, in the overall census of data from the system presented in Chapter 5 and the water-quality analyses in this chapter, the Gulf of Mexico data sets are segregated from the estuarine data sets, to provide a better depiction of the data base for each region.

The historical statistics for each of the study parameters, for each of the TNRCC segments and each of the hydrographic segments, are presented in Appendix B. For each parameter there is a pair of tables, the first, the Period of Record Statistics, presenting basic data on magnitude and variance of the measurements, and the second, the Time Trend Analysis, presenting data on the time history dimension of the parameter's variation. These tables, and their companions on sediment quality, are the central product of this study and warrant examination far beyond the comments offered here. However, because of the considerable volume of the tables and the fact that most readers will not wish to delve into the details of the analyses, these results are relegated to the appendix.

Tables 6-2 and 6-3 present two examples of the first of the pairs of tables from these analyses, for the hydrographic-area segmentation. (The companion tables showing time-trend results are presented as Tables 6-36 and 6-37 in the next section.) The same table format is observed for the TNRCC segments, except of course there are fewer such segments, and generally more data per segment.

In these tables the first key entry is in the second column, *viz.* number of observations. This number obviously circumscribes the confidence of the remainder of the analyses for that segment: for many segments this number is zero, or is so small as to provide little useful information. To conserve paper, segments with zero data are omitted from the hydrographic-segmentation tables in the Appendix in order to conserve space. (For the TNRCC-segment tables, all segments are given, even if there are zero data points.) Figures 5-1 *et seq.* depicted the distribution of sampling intensity in Corpus Christi Bay (by hydrographic segment) for key study parameters. Particular note should be made of the paucity of measurements of metals and organics.

It will be recalled (Section 3.3.1) that we have elected to treat measurements below detection limits (BDL) in three different ways. First, all such data are ignored. This is done in all computations of *variability*, including standard deviations and regressions, as well as in the first average (column three) of Tables 6-2 and 6-3. Second, all BDL's are assigned a value of zero, the more optimistic extreme, assuming a BDL is equivalent to nonpresence of the analyte. Third, all BDL's are assigned the value of the corresponding detection limits, the more pessimistic extreme, assuming a BDL variate is present to the maximum concentration that remains undetectable. The separate averages using these latter two conventions are given in the final two columns of the Period of Record Statistics tables (e.g., Table 6-2 and 6-3). These represent upper and lower bounds on the actual mean concentration. Because many of the data records contain a high frequency of BDL values, and (worse) reported values of 0 instead of a detection limit, a census of BDL's, minimum values, and non-zero minima is also given in the Period of Record Statistics tables.

The general spatial variation of key water quality parameters is depicted in Figs. 6-1 through 6-54, for the subsections of the study area with the most important, distinctive or interesting gradients. These mapped values are based upon the average values for each segment computed with BDL values taken as 0. These figures should be employed together with the corresponding sampling intensity figure of Chapter 5 or the corresponding table of Appendix B, because the number of data points available in a given segment is an indication of the validity of that average. Only selected metals are shown in these figures, to provide some indications of spatial variation supported by the data base for the respective parameters. No toxic organics are shown in this type of display because the spatial distribution of samples above detection limits is so sparse that these displays prove to be virtually useless. The complete statistical tables in Appendix B should be consulted for specific organics of interest. While some data exist in virtually every segment for the frequently measured parameters of salinity, temperature and dissolved oxygen, for most of the parameters data is totally absent from some or many segments. These are shown as white on Figures 6-1 et seq. The user is advised to cultivate the practice of reading these white areas as a screen, as though that portion of the map is covered, because for these areas we have no information as to the historical behavior of the plotted constituent.

Temperature, salinity, and dissolved oxygen warrant special treatment because of the nature of the external controls (to anticipate somewhat the discussion of Chapter 9) and because of how they are sampled. With respect to the former, one of the primary controls is surface processes so these parameters are particularly influenced by the depth of measurement and the annual march of climate. With respect to the latter, these are measured either at a single point in the vertical (usually near the surface) or as a vertical profile, but no discrimination by depth is made in the construction of the statistics tables. To depict the horizontal variation in these parameters requires eliminating potential bias due to varying proximity of the measurement to the surface, and eliminating any spurious weighting of stations where profile data were taken. Therefore, these parameters were also separately analyzed for near-surface values only. This was taken to be the upper 1 meter (3.3 feet) of the water column. The results of all of these statistics are given in Tables 6-4 through 6-7 for the hydrographic-area segments (in a more compressed format than that of Table 6-2 since BDL's do not have to be addressed). Both dissolved oxygen and dissolved oxygen deficit are analyzed in these tables (see Section 2.2). In Figs. 6-1 through 6-18, the depicted distributions are of the values in the upper 1 meter.

Many of the water quality parameters exhibit annual variations, due to direct climate effects such as surface forcing, due to indirect effects from dependence upon variables like temperature and salinity that have seasonal variation, and due to seasonal variation in transport processes or mass loadings. The long-term statistical analyses represented by Tables 6-2 and 6-3 do not differentiate by date, and therefore any seasonal variation in the parameter is incorporated into the computed variance. To determine the existence and nature of systematic annual variation, each parameter was subjected to separate statistical analyses after being sorted by month of measurement. In this analysis, because the data are sorted both by hydrographic area and by month of measurement, we are somewhat more discriminating in our requirement for a minimal analyzable data set, requiring a minimum of three measurements in the period of record for a specific month to compute that monthly mean. These results are presented in Tables 6-8 through 6-25. Only the hydrographic-area segments for which available data permit at least one monthly average to be computed are given in these tables.

These same analyses are a useful vehicle for displaying the general variation of the indicated parameter through the study area. To facilitate this, principal components ("bays") of the Corpus Christi Bay system were defined as follows:

principal component bay	*hydrographic segments*
Aransas	A1-A4, A8-A12, I4-I7
Copano	CP02-CP10
St. Charles	SC2-SC3
Mesquite*	MB1, MB2, AYB, CB
Redfish Bay	RB2-RB9
Corpus Christi	C01-C08, C10, C11, C13, C14, C16-C23
CCSC (open bay)	CCC3-CCC7
Inner Harbor	IH1-IH7
Nueces Bay	NB2-NB5, NB8
Causeway N	C24, C25, I9
Causeway S	UL01, UL02, UL04, I10
Laguna (King Ranch)	UL03, UL05-UL11, I11-I15
Laguna (Baffin)	UL12-UL14, I16-I18
Baffin	BF1-BF3, AL2, GR2
Aransas Pass area	INL, LAC, CCC1, HI1
GOM inlet	GMI5-GMI7, GMO5-GMO7

*including Carlos and Ayres Bays

The philosophy underlying these designations is to identify and group segments characteristic of the open waters of the component indicated, excluding regions that are biased by probable external factors. For example, in the Corpus Christi group, C15 at the entrance of Nueces Bay and C12 at East Flats are excluded. Similarly, in Nueces Bay, the segments along the southern shore, which could be affected by the CP&L Nueces steam-electric station discharge, are excluded. The Upper Laguna is subdivided into two reaches, the northern reach (but not including the region in immediate proximity to the JFK Causeway, which is considered separately as Causeway S) being designated as the King Ranch reach, and the southern reach as the Baffin reach. GOM Inlet designates the Gulf of Mexico in proximity to Aransas Pass. A comparison of the above groupings to the maps of hydrographic areas of Figs. 3-8 *et seq.* will make readily evident the motivation for inclusion or exclusion of various segments in this grouping. The monthly averages for each of these "principal bays" are presented at the end of each of Tables 6-8 *et seq.* These were computed by averaging the monthly means for each of the component hydrographic areas, so each hydrographic area is weighed equally. The seasonal variation of the most important of the water-quality parameters is shown graphically for selected "principal bays" in Figures 6-55 through 6-68.

Figures 6-58 through 6-61 provide an excellent demonstration for the utility of DO deficit as an indicator parameter. The plots of dissolved oxygen show a substantial seasonal variation, of 4-5 ppm, almost entirely due to the variation of solubility because of the annual march of temperature and, to a lesser extent, of salinity, cf. Fig. 2-5. Deficit, in contrast, has little systematic seasonal variation (note the small range of the axes of Figs. 6-60 and 6-61), but significant differences between various component sections of the estuary.

For many of the parameters, especially the metals and organics, there is insufficient data in the record to discriminate real month-to-month variability from sample-to-sample variation, due both to the sparsity of data and to the fact that most measurements are reported as below detection limits. The sparsity of the record for metals is apparent from the many blank entries in Table 6-21 *et seq.* The data is so sparse for organics that no monthly statistics are presented. While monthly variation in metals cannot be reliably extracted from the available data base, there is apparent a significant spatial distribution. This is evident in the maps of Figs. 6-47 through 6-54. It is also evident in the long-term averages (with BDL=0) further averaged into the groupings of "principal bays" presented above. These averages are shown in Table 6-26, with the highest three occurrences of each metal marked in boldface.

The extent of vertical stratification in a parameter is frequently of concern in water-quality analysis. The intensity of vertical mixing in the Texas bays, and the resulting vertical homogeneity of the water column has been frequently remarked, e.g. Ward (1980). With the data base assembled here, the extent of vertical stratification could be analyzed for key variables for which coincident measurements at two depths were available. Variables for which stratification was analyzed were: temperature, salinity, dissolved oxygen deficit, and to a lesser extent ammonia, nitrate, suspended solids, extended proxy suspended solids, total phosphorus and chlorophyll-a. Vertical stratification VS was computed as the vertical gradient in concentration between the two most widely separated measurements in the vertical for a specific sample station and date:

$$VS = \Delta c/\Delta z \tag{6-1}$$

where Δc is the upper-to-lower difference in concentration, and Δz is the difference in elevation of the two measurements with z positive upwards. It must be emphasized that *stratification* is treated in its fluid dynamics sense, and does not imply any "layering" of the water (which entails quantum changes in parameter values at an interface, which we would refer to in our present usage as "singularities" in stratification). Such "layering" and associated concepts, such as the notorious "salt wedge," are rare and evanescent phenomena in Corpus Christi Bay. We note, from (6-1), that the units of stratification are parameter units per unit depth, e.g. ppm per meter, and VS is positive if concentration increases upward. Therefore, the normal stable density stratification would imply a positive stratification in temperature and a negative stratification in salinity.

The vertical stratification in water-quality parameters is tabulated in Tables 6-27 through 6-34. Because stratification is a divided difference, it is even noisier than the concentration data upon which it is based. Therefore, at least three values in a given segment was required to include that average value in these tables. This data is presented in two ways: the arithmetic average stratification in each segment, with the associated standard deviation, and the percentage of the data exhibiting positive stratification. The predominance of stratification is manifested by a large value of gradient compared to the normal magnitude of concentration, and/or a predominance of sign. Since predominance of sign is based upon positive values of stratification, this excludes the occurrence of zero stratification. Therefore, one cannot infer that if positive stratification occurs r % of the time then negative stratification will occur (100 - r) % of the time, but rather that negative *or zero* stratification will occur (100 - r) % of the time. The general negative stratification in salinity and suspended solids, and the general positive stratification in temperature and dissolved oxygen are consistent with the physical processes controlling each of these (to anticipate, again, the discussions of Chapter 9). At the end of each of Tables 6-27 *et seq.* is a summary by principal component bay, based upon the above-specified hydrographic segments,

TABLE 6-2
Period of record statistics for CCBNEP Hydrographic Segments
WQAMMN

Segmt	No.of obs	Avg >DL	Std dev >DL	No. > DLs	% > DLs	Min	date	Min >0	date	Max	date	Avg w/ BDL=0	Avg w/ BDL=DL
A1	7	0.001	0.004	7	100	0.000	741017	0.01	741017	0.01	741017	0.00143	0.00143
A2	31	0.101	0.078	31	100	0.000	730419	0.02	730220	0.47	720330	0.101	0.101
A3	61	0.077	0.073	61	100	0.000	710608	0.01	740418	0.44	720330	0.0766	0.0766
A4	34	0.024	0.015	34	100	0.010	850506	0.01	850506	0.1	860511	0.0238	0.0238
A5	11	0.008	0.008	11	100	0.000	750416	0.01	710608	0.03	710608	0.00818	0.00818
A6	0												
A8	0												
A9	0												
A10	2	0.030	0.010	2	100	0.020	710608	0.02	710608	0.04	710608	0.03	0.03
A11	0												
A12	81	0.064	0.066	81	100	0.000	711111	0.01	720724	0.41	801022	0.0637	0.0637
A13	1	0.100	0.000	1	100	0.100	740723	0.1	740723	0.1	740723	0.1	0.1
AL1	1	0.000	0.000	0	0	0.000	0	0	0	0	0	0	0.05
AL2	44	0.052	0.050	43	97.73	0.000	720928	0.02	750604	0.2	731017	0.0511	0.0523
AR1	81	0.106	0.093	43	53.09	0.020	750729	0.02	750729	0.43	700106	0.0561	0.0984
AYB	0												
BF1	284	0.066	0.210	256	90.14	0.000	690915	0.00014	890415	2.7	750409	0.0597	0.064
BF2	126	0.061	0.093	126	100	0.000	920415	0.002	911215	0.55	711215	0.0614	0.0614
BF3	201	0.046	0.071	175	87.06	0.000	690915	0.0021	890415	0.5	920407	0.04	0.0456
C01	0												
C02	95	0.070	0.077	68	71.58	0.008	880510	0.008	880510	0.47	880714	0.0499	0.0614
C03	54	0.134	0.130	54	100	0.000	720328	0.0048	880510	0.6	760109	0.134	0.134
C04	26	0.074	0.071	26	100	0.009	871020	0.0088	871020	0.26	880714	0.0743	0.0743
C05	67	0.080	0.100	67	100	0.000	720920	0.01	741024	0.82	801021	0.0804	0.0804
C06	36	0.073	0.040	36	100	0.000	701013	0.01	730517	0.11	740611	0.0731	0.0731
C07	97	0.077	0.100	97	100	0.000	720328	0.02	831128	1	721219	0.0767	0.0767
C08	24	0.091	0.083	24	100	0.010	880810	0.0095	880810	0.28	880714	0.0906	0.0906

(continued)

TABLE 6-2
(continued)

Segmt	*No.of obs*	*Avg >DL*	*Std dev >DL*	*No. > DLs*	*% > DLs*	*Min*	*date*	*Min >0*	*date*	*Max*	*date*	*Avg w/ BDL=0*	*Avg w/ BDL=DL*
C09	22	0.078	0.170	22	100	0.000	750130	0.01	770210	0.84	801021	0.0777	0.0777
C10	113	0.066	0.069	113	100	0.000	690326	0.0055	880510	0.57	880714	0.0661	0.0661
C11	182	0.070	0.086	182	100	0.000	690917	0.01	710506	1	731115	0.0703	0.0703
C12	125	0.066	0.110	125	100	0.000	711111	0.01	720725	1	740114	0.0655	0.0655
C13	0												
C14	392	0.048	0.053	392	100	0.000	690326	0.00014	930415	0.4	720126	0.0476	0.0476
C15	295	0.107	0.170	253	85.76	0.000	680530	0.0036	880413	1.4	700922	0.0914	0.0979
C16	0												
C17	128	0.064	0.097	128	100	0.000	720920	0.0063	880510	0.95	801021	0.0643	0.0643
C18	0												
C19	0												
C20	22	0.071	0.053	22	100	0.009	880810	0.0094	880810	0.19	880714	0.0713	0.0713
C21	61	0.089	0.041	61	100	0.000	720328	0.01	720328	0.21	711105	0.0887	0.0887
C22	22	0.114	0.046	22	100	0.100	721219	0.1	721219	0.3	730312	0.114	0.114
C23	24	0.085	0.092	24	100	0.010	880510	0.01	880510	0.32	880714	0.0854	0.0854
C24	57	0.051	0.072	57	100	0.000	690916	0.0076	880510	0.32	871208	0.0513	0.0513
C25	0												
CB	67	0.081	0.092	67	100	0.000	721115	0.01	720330	0.51	731010	0.0813	0.0813
CBH	0												
CBY1	12	0.025	0.020	12	100	0.004	870126	0.0041	870126	0.062	870602	0.0245	0.0245
CBY2	0												
CCC1	143	0.046	0.042	143	100	0.000	690326	0.0095	880810	0.19	880714	0.0463	0.0463
CCC2	6	0.230	0.210	5	83.33	0.080	810507	0.08	810507	0.63	810507	0.192	0.2
CCC3	106	0.058	0.060	105	99.06	0.000	680326	0.0074	880510	0.24	880714	0.0573	0.0578
CCC4	6	0.100	0.000	5	83.33	0.100	740723	0.1	740723	0.1	740723	0.0833	0.0917
CCC5	56	0.059	0.075	56	100	0.000	711111	0.0081	880510	0.3	871208	0.0586	0.0586
CCC6	97	0.094	0.087	60	61.86	0.010	860528	0.01	860528	0.48	691208	0.0578	0.0738
CCC7	304	0.049	0.062	304	100	0.000	690325	0.0025	871019	0.48	710903	0.0488	0.0488
CCC8	108	0.212	0.670	93	86.11	0.010	760115	0.01	760115	6.3	760406	0.183	0.189
CP01	0												

(continued)

TABLE 6-2
(continued)

Segmt	No.of obs	Avg >DL	Std dev >DL	No. > DLs	% > DLs	Min	date	Min >0	date	Max	date	Avg w/ BDL=0	Avg w/ BDL=DL
CP02	25	0.027	0.036	25	100	0.000	711111	0.01	720724	0.16	720330	0.0268	0.0268
CP03	48	0.093	0.120	48	100	0.000	711111	0.01	720330	0.8	730311	0.0931	0.0931
CP04	1	0.040	0.000	1	100	0.040	710915	0.04	710915	0.04	710915	0.04	0.04
CP05	41	0.078	0.062	41	100	0.000	711111	0.01	720724	0.31	720330	0.0776	0.0776
CP06	0												
CP07	79	0.065	0.075	79	100	0.000	711111	0.01	740531	0.42	720330	0.0652	0.0652
CP08	0												
CP09	10	0.066	0.110	10	100	0.000	770210	0.01	770629	0.37	801022	0.066	0.066
CP10	159	0.103	0.150	127	79.87	0.000	711108	0.01	750318	1	690521	0.0825	0.0923
EF	0												
GR1	1	0.000	0.000	0	0	0.000	0	0	0	0	0	0	0.05
GR2	20	0.100	0.110	19	95	0.000	690915	0.01	741023	0.3	751029	0.0945	0.097
HI1	0												
HI2	1	0.020	0.000	1	100	0.020	770210	0.02	770210	0.02	770210	0.02	0.02
I1	0												
I2	12	0.196	0.300	12	100	0.100	700827	0.1	700827	1.2	700218	0.196	0.196
I3	58	0.095	0.110	55	94.83	0.000	720330	0.01	710608	0.64	720330	0.0903	0.0929
I4	5	0.170	0.000	1	20	0.170	840823	0.17	840823	0.17	840823	0.034	0.074
I5	40	0.046	0.041	39	97.5	0.000	711111	0.01	710608	0.12	720530	0.0448	0.046
I6	93	0.124	0.170	60	64.52	0.020	750721	0.02	750721	1.1	750423	0.0801	0.0948
I7	64	0.047	0.110	64	100	0.000	711111	0.01	710608	0.9	840530	0.0473	0.0473
I8	0												
I9	229	0.086	0.140	229	100	0.000	690916	0.0099	880510	1	690522	0.0863	0.0863
I10	57	0.015	0.015	57	100	0.000	930415	0.00014	930415	0.076	890315	0.0147	0.0147
I11	6	0.160	0.230	6	100	0.000	690916	0.02	701008	0.6	680828	0.16	0.16
I12	76	0.137	0.190	48	63.16	0.020	821122	0.02	821122	1.1	750707	0.0865	0.102
I13	156	0.024	0.034	156	100	0.001	911215	0.00098	911215	0.22	930715	0.024	0.024
I14	0												
I15	93	0.041	0.079	93	100	0.000	690916	0.0018	911215	0.67	680827	0.0411	0.0411
I16	0												

(continued)

TABLE 6-2
(continued)

Segmt	No.of obs	Avg >DL	Std dev >DL	No. > DLs	% > DLs	Min	date	Min >0	date	Max	date	Avg w/ BDL=0	Avg w/ BDL=DL
I17	140	0.082	0.160	115	82.14	0.004	911115	0.0042	911115	1.3	900412	0.0677	0.075
I18	0												
IH1	128	0.490	0.740	115	89.84	0.000	690325	0.02	910710	4.4	760406	0.44	0.445
IH2	3	0.203	0.074	3	100	0.120	820810	0.12	820810	0.3	770621	0.203	0.203
IH3	8	0.209	0.069	8	100	0.120	820810	0.12	820810	0.3	770621	0.209	0.209
IH4	5	0.166	0.046	5	100	0.110	820810	0.11	820810	0.21	820810	0.166	0.166
IH5	129	0.460	0.670	124	96.12	0.000	680530	0.02	900808	5.4	760406	0.443	0.444
IH6	88	0.285	0.460	80	90.91	0.010	920728	0.01	920728	3.4	760406	0.259	0.263
IH7	96	0.226	0.190	95	98.96	0.000	680530	0.02	721116	1	800409	0.224	0.225
INL	4	0.333	0.330	3	75	0.100	740723	0.1	740723	0.8	820317	0.25	0.263
LAC	46	0.059	0.084	46	100	0.000	711108	0.01	721115	0.51	801022	0.0589	0.0589
LB	0												
LQ1	6	0.117	0.009	3	50	0.110	801203	0.11	801203	0.13	801203	0.0583	0.0833
LQ2	87	0.145	0.470	48	55.17	0.000	741024	0.01	750130	3	750423	0.0797	0.0996
LS1	56	0.036	0.061	55	98.21	0.003	890415	0.0031	890415	0.32	920215	0.0348	0.0357
LS2	69	0.026	0.038	68	98.55	0.000	690915	0.0014	890415	0.19	740424	0.0255	0.0262
M1	0												
M2	0												
MB1	89	0.092	0.150	54	60.67	0.000	750924	0.0035	870126	0.87	780206	0.0559	0.0727
MB2	23	0.030	0.030	23	100	0.004	870126	0.0039	870126	0.09	870602	0.0304	0.0304
NB1	111	0.098	0.085	111	100	0.017	871119	0.017	871119	0.59	880121	0.0982	0.0982
NB2	24	0.094	0.073	24	100	0.016	871119	0.016	871119	0.27	871209	0.094	0.094
NB3	58	0.060	0.058	58	100	0.016	880811	0.016	880811	0.23	871209	0.0599	0.0599
NB4	287	0.119	0.091	287	100	0.009	880811	0.0094	880811	0.83	920107	0.119	0.119
NB5	531	0.088	0.079	502	94.54	0.000	690326	0.0041	880412	0.74	920107	0.0835	0.086
NB6	66	0.113	0.120	66	100	0.000	690326	0.01	750417	0.8	720125	0.113	0.113
NB7	65	0.135	0.190	40	61.54	0.010	860826	0.01	860826	1.2	920107	0.083	0.0991
NB8	20	0.069	0.063	20	100	0.003	880413	0.0025	880413	0.22	871209	0.069	0.069
NB9	8	0.055	0.069	8	100	0.005	880413	0.005	880413	0.2	880712	0.0547	0.0547
ND1	0												

(continued)

TABLE 6-2
(continued)

Segmt	*No.of obs*	*Avg >DL*	*Std dev >DL*	*No. > DLs*	*% > DLs*	*Min*	*date*	*Min >0*	*date*	*Max*	*date*	*Avg w/ BDL=0*	*Avg w/ BDL=DL*
ND2	16	0.096	0.054	16	100	0.045	781204	0.045	781204	0.2	790209	0.0956	0.0956
ND3	0												
ND4	0												
NR1	36	0.072	0.140	29	80.56	0.000	680530	0.01	730517	0.72	701012	0.0578	0.102
NR2	0												
NR3	6	0.208	0.310	6	100	0.000	731016	0.04	720725	0.86	701012	0.208	0.208
NR4	164	0.237	0.300	114	69.51	0.020	760908	0.02	760908	1.8	751209	0.164	0.179
NR5	33	0.132	0.120	33	100	0.000	680530	0.02	760608	0.46	750417	0.132	0.132
OS1	50	6.500	6.700	49	98	0.050	920928	0.05	920928	30	750422	6.37	6.38
OS2	0												
OS3	27	0.545	0.690	19	70.37	0.059	760419	0.059	760419	2.7	750701	0.384	0.407
OS4	0												
OS5	0												
OS6	47	0.187	0.460	33	70.21	0.010	930427	0.01	930427	2.7	890209	0.131	0.144
OS7	68	0.784	3.100	55	80.88	0.010	860826	0.01	860826	23	820505	0.634	0.643
PB1	70	0.112	0.220	50	71.43	0.010	870121	0.01	870121	1.6	750422	0.0797	0.0926
PB2	0												
RB1	18	0.043	0.037	18	100	0.000	711111	0.01	720724	0.12	711105	0.0433	0.0433
RB2	0												
RB3	83	0.113	0.220	56	67.47	0.000	690326	0.01	710506	1.6	870212	0.0759	0.0909
RB4	0												
RB5	22	0.100	0.000	22	100	0.100	721220	0.1	721220	0.1	721220	0.1	0.1
RB6	22	0.100	0.000	22	100	0.100	721215	0.1	721215	0.1	721215	0.1	0.1
RB7	8	0.044	0.030	8	100	0.010	790608	0.01	790608	0.1	790209	0.0444	0.0444
RB8	185	0.077	0.110	98	52.97	0.000	710506	0.01	740425	0.8	801021	0.0409	0.0613
RB9	6	0.047	0.038	6	100	0.020	890122	0.02	890122	0.1	740723	0.0467	0.0467
SC1	0												
SC2	26	0.084	0.250	26	100	0.000	720724	0.01	721115	1.3	711111	0.0838	0.0838
SC3	150	0.119	0.300	87	58	0.010	710608	0.01	710608	2.9	750422	0.0687	0.0879
UL01	0												

(continued)

TABLE 6-2
(continued)

Segmt	No.of obs	Avg >DL	Std dev >DL	No. > DLs	% > DLs	Min	date	Min >0	date	Max	date	Avg w/ BDL=0	Avg w/ BDL=DL
UL02	0												
UL03	53	0.026	0.043	53	100	0.000	690916	0.00084	920815	0.19	930715	0.0257	0.0257
UL04	69	0.094	0.076	43	62.32	0.010	821122	0.01	821122	0.3	750707	0.0584	0.0735
UL05	0												
UL06	0												
UL07	0												
UL08	0												
UL09	0												
UL10	0												
UL11	15	0.076	0.100	15	100	0.000	690916	0.01	780301	0.4	820330	0.076	0.076
UL12	0												
UL13	0												
UL14	0												
GMI1	0												
GMI2	0												
GMI3	0												
GMI4	39	0.179	0.34	25	64.1	0.04	770124	0.04	770124	1.8	750422	0.115	0.132
GMI5	0												
GMI6	112	0.115	0.21	90	80.36	0	690326	0.01	711111	1.5	700305	0.0924	0.102
GMI7	0												
GMI8	0												
GMI9	0												
GMO1	0												
GMO2	0												
GMO3	0												
GMO4	0												
GMO5	0												
GMO6	14	0.339	0.31	11	78.57	0	730516	0.03	730516	0.8	820317	0.266	0.277
GMO7	0												
GMO8	0												
GMO9	0												

TABLE 6-3
Period of record statistics for CCBNEP Hydrographic Segments
WQXTSS

Segmt	*No.of obs*	*Avg >DL*	*Std dev >DL*	*No. > DLs*	*% > DLs*	*Min*	*date*	*Min >0*	*date*	*Max*	*date*	*Avg w/ BDL=0*	*Avg w/ BDL=DL*
A1	269	39.6	35	263	98	0	740612	1.7	901019	210	760819	38.7	39.3
A2	240	49	58	240	100	0	750129	1.7	870603	420	740531	49	49
A3	275	35.6	39	271	99	0	720918	1.7	871118	300	751103	35	35.4
A4	184	37.4	44	184	100	0	720724	0.93	720724	340	840329	37.4	37.4
A5	124	29.3	29	124	100	0	720724	4.7	740418	230	850306	29.3	29.3
A6	132	28.5	21	130	98	1.7	870421	1.7	870421	140	830614	28.1	28.5
A8	59	35.5	40	59	100	1.7	870924	1.7	870924	240	890905	35.5	35.5
A9	78	28.5	22	78	100	1.7	870603	1.7	870603	150	830920	28.5	28.5
A10	232	38.1	74	232	100	0	720724	1.7	870603	930	830503	38.1	38.1
A11	253	33.7	39	253	100	1.7	870318	1.7	870318	330	930902	33.7	33.7
A12	364	29.6	38	364	100	0	740417	0.93	740118	370	831227	29.6	29.6
A13	111	32.7	76	111	100	1.7	870806	1.7	870806	760	930625	32.7	32.7
AL1	169	133	170	169	100	5.2	931208	5.2	931208	930	831220	133	133
AL2	283	73.7	95	283	100	4.8	870723	4.8	870723	930	850313	73.7	73.7
AR1	166	89	86	165	99	3.5	871118	3.5	871118	750	840322	88.5	88.5
AYB	38	52.3	29	38	100	23	690901	23	690901	130	690601	52.3	52.3
BF1	451	55.5	58	451	100	3.5	881026	3.5	881026	610	841120	55.5	55.5
BF2	449	52.4	75	449	100	0	760211	3.5	871117	930	830420	52.4	52.4
BF3	556	35.2	32	555	100	0	750205	3.5	870414	340	900412	35.1	35.1
C01	225	71.1	72	225	100	2	720314	2	720314	390	720413	71.1	71.1
C02	189	31.9	32	186	98	0	720725	1.7	870908	210	820804	31.4	31.5
C03	372	50.2	52	372	100	0	720725	1.7	890427	460	711103	50.2	50.2
C04	192	30.3	21	192	100	1.7	870908	1.7	870908	150	910123	30.3	30.3
C05	220	153	940	220	100	0	720725	1.7	890616	11000	830511	153	153
C06	232	98.4	500	232	100	1.7	890616	1.7	890616	5000	830511	98.4	98.4
C07	395	45.5	52	395	100	0	720725	1.7	870617	390	720413	45.5	45.5
C08	130	27.1	21	130	100	3.5	871005	3.5	871005	130	830413	27.1	27.1
C09	573	61.9	330	573	100	0	750417	1.7	870520	4800	830511	61.9	61.9

(continued)

TABLE 6-3
(continued)

Segmt	No.of obs	Avg >DL	Std dev >DL	No. > DLs	% > DLs	Min	date	Min >0	date	Max	date	Avg w/ BDL=0	Avg w/ BDL=DL
C10	426	25.8	41	426	100	0	720725	1.7	870803	560	831223	25.8	25.8
C11	484	105	610	484	100	0	720725	1.7	890824	7700	830511	105	105
C12	794	53.7	320	794	100	0	720725	1.7	870804	5600	821122	53.7	53.7
C13	96	22.3	27	96	100	1.7	890927	1.7	890927	200	830608	22.3	22.3
C14	857	27.8	28	857	100	0	720725	1	710219	320	710104	27.8	27.8
C15	702	77.3	83	702	100	0	721227	3.5	870312	460	700610	77.3	77.3
C16	67	33.2	40	67	100	3.5	870617	3.5	870617	270	860203	33.2	33.2
C17	288	154	1000	288	100	1.7	931104	1.7	931104	13000	830511	154	154
C18	114	29.1	31	114	100	1.7	870617	1.7	870617	210	840607	29.1	29.1
C19	77	34.5	51	77	100	3.5	930104	3.5	930104	350	830408	34.5	34.5
C20	271	57.8	69	271	100	1	700702	1	700702	350	711103	57.8	57.8
C21	221	23.9	23	221	100	0	720725	0.93	740107	230	831024	23.9	23.9
C22	94	26.4	34	94	100	0	740216	0.93	720725	220	860423	26.4	26.4
C23	60	34.5	43	60	100	1.7	890616	1.7	890616	200	910206	34.5	34.5
C24	204	26.3	37	204	100	0	740530	3.5	870401	370	751030	26.3	26.3
C25	74	18	19	74	100	3.5	891107	3.5	891107	150	930824	18	18
CB	262	48.5	48	262	100	0	740612	1.7	870721	360	690715	48.5	48.5
CBH	18	35.6	29	18	100	3.5	870708	3.5	870708	100	740611	35.6	35.6
CBY1	18	38.5	45	18	100	8.6	881201	8.6	881201	200	870406	38.5	38.5
CBY2	26	66	46	25	96	8.6	901206	8.6	901206	210	680415	63.4	64.4
CCC1	691	63.1	300	691	100	0	751031	1	710618	4800	821122	63.1	63.1
CCC2	62	22.3	13	62	100	3.5	930202	3.5	930202	87	880510	22.3	22.3
CCC3	737	46.9	41	737	100	0	751030	2.8	720725	480	930106	46.9	46.9
CCC4	87	24.8	23	87	100	1.7	890616	1.7	890616	160	830422	24.8	24.8
CCC5	137	28.3	42	137	100	0	720725	1.7	870617	320	860423	28.3	28.3
CCC6	172	31	34	170	99	0	720515	1.7	931104	360	910619	30.6	30.7
CCC7	206	183	1100	206	100	0.93	720725	0.93	720725	12000	830511	183	183
CCC8	117	34.7	37	117	100	3.5	930208	3.5	930208	220	900430	34.7	34.7

(continued)

TABLE 6-3
(continued)

Segmt	*No.of obs*	*Avg >DL*	*Std dev >DL*	*No. > DLs*	*% > DLs*	*Min*	*date*	*Min >0*	*date*	*Max*	*date*	*Avg w/ BDL=0*	*Avg w/ BDL=DL*
CP01	32	42	42	32	100	1.7	871117	1.7	871117	170	860206	42	42
CP02	331	40.7	42	329	99	0	740612	1.7	870203	450	910702	40.4	40.6
CP03	328	53.3	55	328	100	1.7	870421	1.7	870421	400	710915	53.3	53.3
CP04	233	44.6	74	231	99	0	740612	1.7	870622	930	880601	44.2	44.4
CP05	226	60.3	57	223	99	0	830208	1.7	870622	370	840711	59.5	59.8
CP06	135	70.6	71	135	100	3.5	870916	3.5	870916	370	850306	70.6	70.6
CP07	229	37.7	45	229	100	0	740612	1.7	870908	510	830602	37.7	37.7
CP08	296	43.2	51	291	98	0	740612	1.7	870622	420	880913	42.5	42.9
CP09	223	45.4	51	223	100	0	740612	1.7	870203	300	840321	45.4	45.4
CP10	379	38.7	44	372	98	0	720920	1.7	870319	420	710304	38	38.2
EF	61	23.1	17	61	100	1.7	870416	1.7	870416	97	930527	23.1	23.1
GR1	13	76.6	94	13	100	5.2	910515	5.2	910515	350	860318	76.6	76.6
GR2	330	67.8	86	330	100	1.7	871027	1.7	871027	930	831201	67.8	67.8
HI1	58	30.7	30	58	100	4.7	730517	4.7	730517	110	850212	30.7	30.7
HI2	64	22.2	17	64	100	1.7	870609	1.7	870609	120	910108	22.2	22.2
I1	2	45	0	1	50	45	930405	45	930405	45	930405	22.5	35
I2	88	65.8	61	87	99	5.2	890123	5.2	890123	350	711123	65	65.3
I3	162	51.5	55	160	99	0	740612	3.5	870818	470	760819	50.9	51.2
I4	188	53.3	57	185	98	3.5	880705	3.5	880705	400	920417	52.5	52.9
I5	221	38	41	221	100	0	750129	1.7	870603	340	831207	38	38
I6	253	29.6	45	248	98	0	720320	1.7	870105	560	831207	29	29.3
I7	361	25.7	22	357	99	0	740531	1.5	870112	280	700515	25.4	25.7
I8	96	26.1	26	96	100	1.7	870318	1.7	870318	170	930607	26.1	26.1
I9	238	25	36	238	100	0	720516	2.8	720725	330	750604	25	25
I10	190	50.8	47	190	100	0	710716	4.1	710716	200	711008	50.8	50.8
I11	101	21.9	21	101	100	0	750205	1.7	920128	130	921112	21.9	21.9
I12	164	25.5	27	163	99	3.5	870817	3.5	870817	190	750409	25.4	25.4
I13	336	30.1	22	330	98	1.7	870702	1.7	870702	130	680415	29.5	30

(continued)

TABLE 6-3
(continued)

Segmt	*No.of obs*	*Avg >DL*	*Std dev >DL*	*No. > DLs*	*% > DLs*	*Min*	*date*	*Min >0*	*date*	*Max*	*date*	*Avg w/ BDL=0*	*Avg w/ BDL=DL*
I14	106	19.1	17	106	100	1.7	890919	1.7	890919	94	841019	19.1	19.1
I15	153	29.5	36	153	100	0	760211	1.4	870110	350	751030	29.5	29.5
I16	53	25.7	23	53	100	3.5	920218	3.5	920218	120	850215	25.7	25.7
I17	134	36.6	31	133	99	6.9	901120	6.9	901120	240	750409	36.3	36.4
I18	96	38.8	25	96	100	3.5	871008	3.5	871008	170	670215	38.8	38.8
IH1	132	28.5	33	131	99	0	740611	0.5	780906	200	750917	28.3	28.4
IH2	2	12.5	1.5	2	100	11	820810	11	820810	14	820810	12.5	12.5
IH3	23	18.4	12	23	100	0	740611	4.7	740611	47	820810	18.4	18.4
IH4	9	47.2	25	9	100	21	820810	21	820810	93	791018	47.2	47.2
IH5	167	28.9	31	165	99	0	720315	3	920930	200	750806	28.5	28.6
IH6	114	26.3	21	113	99	6	880218	6	880218	170	750722	26.1	26.2
IH7	594	56.2	320	594	100	0	720514	2	711208	4800	821123	56.2	56.2
INL	29	27.5	29	29	100	5.2	910716	5.2	910716	110	880201	27.5	27.5
LAC	135	22.7	24	135	100	0	740612	3.5	880816	220	930607	22.7	22.7
LB	50	24.1	13	50	100	5.2	870609	5.2	870609	81	690801	24.1	24.1
LQ1	612	42.5	32	611	100	1.7	870416	1.7	870416	250	730319	42.5	42.8
LQ2	169	34.8	34	164	97	0	741024	1.9	720725	230	740530	33.8	34
LS1	45	60	43	45	100	3.5	881026	3.5	881026	200	900815	60	60
LS2	226	64.5	66	226	100	3.5	881026	3.5	881026	510	840815	64.5	64.5
M1	24	95	77	24	100	10	870319	10	870319	320	851113	95	95
M2	70	70	73	70	100	3.5	931217	3.5	931217	350	930324	70	70
MB1	179	64.1	63	176	98	3	870107	3	870107	320	900322	63	63.2
MB2	326	64.8	78	320	98	1.7	871118	1.7	871118	570	910311	63.6	64.1
NB1	168	66.6	53	168	100	1.7	871006	1.7	871006	280	770408	66.6	66.6
NB2	92	65.6	62	92	100	3.5	880201	3.5	880201	370	860317	65.6	65.6
NB3	104	61.9	59	104	100	6.9	891107	6.9	891107	340	850605	61.9	61.9
NB4	194	622	4300	194	100	1.7	870924	1.7	870924	50000	830512	622	622
NB5	487	278	2200	487	100	0	760518	3.5	870127	33000	830209	278	278
NB6	134	690	3600	134	100	6.9	910902	6.9	910902	29000	830512	690	690

(continued)

TABLE 6-3
(continued)

Segmt	*No.of obs*	*Avg >DL*	*Std dev >DL*	*No. > DLs*	*% > DLs*	*Min*	*date*	*Min >0*	*date*	*Max*	*date*	*Avg w/ BDL=0*	*Avg w/ BDL=DL*
NB7	188	49.4	60	187	99	3.5	870127	3.5	870127	560	830412	49.2	49.3
NB8	162	66	61	162	100	5.2	930121	5.2	930121	350	930625	66	66
NB9	135	54.2	48	135	100	3.5	870127	3.5	870127	300	870706	54.2	54.2
ND1	0												
ND2	18	54	35	18	100	5.2	871007	5.2	871007	140	790525	54	54
ND3	0												
ND4	5	67.4	39	5	100	12	881012	12	881012	120	921110	67.4	67.4
NR1	59	37.9	30	57	97	0	730227	4.7	720215	200	700806	36.7	37
NR2	0												
NR3	28	1470	3600	28	100	19	740611	19	740611	13000	830512	1470	1470
NR4	168	114	160	165	98	10	861202	10	861202	1800	880411	111	112
NR5	37	76.7	47	37	100	25	740617	25	740617	220	740213	76.7	76.7
OS1	73	86.2	200	71	97	8	910702	8	910702	1700	801126	83.9	90.7
GMI1	36	15.4	9.5	36	100	1.7	910926	1.7	910926	45	911127	15.4	15.4
GMI2	140	22.6	15	140	100	1.7	910926	1.7	910926	78	930602	22.6	22.6
GMI3	182	26.2	23	182	100	3.5	871113	3.5	871113	190	880202	26.2	26.2
GMI4	191	34.1	37	191	100	1.7	870720	1.7	870720	180	880202	34.1	34.1
GMI5	214	24.1	27	214	100	1.7	870720	1.7	870720	170	930913	24.1	24.1
GMI6	291	53.3	310	287	98.63	0	720216	1.7	870616	3800	830208	52.6	52.7
GMI7	461	20.7	22	461	100	1.7	870507	1.7	870507	120	880321	20.7	20.7
GMI8	164	32.2	30	164	100	1.7	881027	1.7	881027	140	930825	32.2	32.2
GMI9	90	42.3	30	90	100	3.5	900820	3.5	900820	160	890711	42.3	42.3
GMO1	0												
GMO2	2	49.8	24	2	100	26	791106	26	791106	74	801028	49.8	49.8
GMO3	0												
GMO4	62	13.5	16	62	100	1.7	870318	1.7	870318	110	891219	13.5	13.5
GMO5	367	13.4	14	367	100	0	870518	1.7	870318	160	890916	13.4	13.4
GMO6	205	12.9	17	205	100	0	720919	1.7	870217	110	870116	12.9	12.9
GMO7	367	15.4	20	367	100	1.7	870102	1.7	870102	160	920709	15.4	15.4
GMO8	0												
GMO9	0												

Table 6-4
Statistics by Hydrographic Area
of salinity (WQSAL), ppt, in upper 1 m

Segmt	*No.of obs*	*Avg*	*Std devn*	*Min*	*date*	*Max*	*date*
A1	463	16.4	7.8	0.3	680715	44	630828
A2	270	16.5	7.1	1.0	920226	36	890828
A3	364	16.2	7.3	1.0	920421	34	641130
A4	177	19.3	7.7	2.3	920421	40	590602
A5	168	17.7	6.8	1.9	920421	36	641130
A6	189	19.4	7.1	3.1	760720	37	641130
A8	108	18.8	8.2	1.0	920226	36	840913
A9	57	20.5	7.9	1.0	920114	38	850910
A10	269	19.2	7.1	1.2	831026	37	641130
A11	144	23.0	7.2	3.0	920609	40	891009
A12	307	21.8	7.1	3.0	880427	40	890919
A13	132	24.1	7.6	4.0	760720	40	890614
AL1	167	38.6	17.0	0.0	870616	77	890828
AL2	260	37.9	15.0	0.0	860921	90	900830
AR1	174	11.3	8.8	0.0	811118	38	891017
AYB	34	21.7	6.1	12.0	690515	34	890620
BF1	402	36.8	15.0	0.0	860921	65	910408
BF2	294	38.1	13.0	2.8	731017	63	891106
BF3	531	38.2	11.0	0.6	900807	61	641115
C01	206	28.6	11.0	2.4	710922	86	610628
C02	321	29.6	10.0	1.2	671002	89	620613
C03	320	29.1	9.2	1.3	710914	70	670816
C04	200	26.3	10.0	0.4	670930	40	630815
C05	149	26.1	8.2	1.1	671002	45	520824
C06	147	27.3	7.6	2.9	671003	45	520824
C07	186	28.7	7.0	0.0	860927	43	710618
C08	126	31.0	5.8	7.1	711105	43	630815
C09	571	30.2	5.6	9.4	711105	43	710618
C10	244	28.4	7.0	0.0	860927	44	520824
C11	401	27.2	7.6	0.0	860927	46	520824
C12	689	29.2	6.0	0.0	860927	46	880323
C13	51	28.3	8.2	5.5	670929	41	860916
C14	855	30.3	6.8	0.0	860927	54	800715
C15	976	25.1	11.0	0.0	860927	79	610927
C16	20	27.4	11.0	2.1	670930	36	520406
C17	411	28.2	7.6	0.0	870706	47	841220
C18	101	31.0	7.0	2.5	670930	42	520824
C19	119	29.3	6.1	10.0	810713	51	630807
C20	161	27.9	7.3	6.2	711020	43	520824
C21	250	30.2	5.5	5.6	731113	42	520824
C22	55	27.9	5.2	5.9	731113	36	520322
C23	46	31.0	4.4	20.0	870316	38	880810
C24	221	30.6	7.7	0.0	890122	47	880717

(continued)

Table 6-4
(continued)

Segmt	*No.of obs*	*Avg*	*Std devn*	*Min*	*date*	*Max*	*date*
C25	132	30.7	7.2	11.0	671003	52	890612
CB	323	17.0	7.5	1.0	920312	39	850911
CBH	13	24.7	7.0	10.0	671003	34	900613
CBY1	18	18.6	9.7	3.0	920312	33	880707
CBY2	45	27.3	6.4	10.0	920113	38	670815
CCC1	349	28.6	9.8	0.0	860927	170	701012
CCC2	101	29.0	5.2	5.9	760720	39	870605
CCC3	370	28.8	6.1	0.0	860927	43	710702
CCC4	108	28.6	5.5	3.5	910926	39	600926
CCC5	105	30.0	7.0	0.0	860927	43	520824
CCC6	161	29.5	5.6	6.4	710916	54	910116
CCC7	291	27.9	7.6	0.0	870716	42	520824
CCC8	286	28.9	10.0	0.0	760115	99	610628
CP01	32	16.9	8.9	0.0	920416	32	891218
CP02	342	15.8	8.0	0.3	811208	35	890928
CP03	467	13.2	9.0	0.0	730615	42	641201
CP04	333	15.6	8.6	1.0	920221	45	630805
CP05	289	13.1	8.8	0.0	680615	50	690801
CP06	104	17.0	9.6	1.0	831026	38	641201
CP07	187	12.9	8.0	0.7	731015	38	641201
CP08	241	15.2	7.9	0.0	920408	40	890918
CP09	159	12.9	6.9	0.0	920604	39	641201
CP10	501	14.7	7.7	0.0	680715	39	641201
EF	73	30.8	4.3	20.0	920428	40	840914
GR1	13	46.4	19.0	5.0	930316	65	891016
GR2	283	36.7	16.0	0.5	731017	64	910117
HI1	59	26.4	7.2	7.1	670930	40	900703
HI2	92	28.0	5.9	9.4	670930	42	850611
I1	48	13.4	6.7	0.0	920311	24	901016
I2	95	19.2	7.2	0.0	920609	35	690716
I3	165	16.5	7.4	1.0	731019	32	841009
I4	202	18.8	7.6	0.1	920421	36	670815
I5	124	20.0	7.1	4.8	731015	35	650915
I6	324	21.0	9.2	2.6	760720	110	760712
I7	330	23.7	6.9	7.0	920507	38	670815
I8	82	28.4	6.1	5.0	920210	38	890710
I9	222	30.1	7.8	0.0	860927	54	880712
I10	118	31.4	8.5	6.0	760809	51	690815
I11	126	34.0	7.3	20.0	920703	51	900501
I12	141	34.8	8.4	0.5	900807	55	910408
I13	447	37.9	9.6	0.0	860921	64	641115
I14	109	38.4	7.3	23.0	920722	55	901212
I15	143	36.4	8.9	0.0	860921	53	901009
OS7	217	30.2	8.7	0.6	900806	78	850722

(continued)

Table 6-4
(continued)

Segmt	*No.of obs*	*Avg*	*Std devn*	*Min*	*date*	*Max*	*date*
I16	63	37.8	8.7	18.0	920625	57	891114
I17	154	35.5	10.0	0.5	900807	58	900212
I18	170	39.5	9.9	12.0	870622	59	641015
IH1	161	28.1	8.1	0.0	920728	60	670816
IH2	4	35.1	1.5	33.0	820810	36	820810
IH3	34	27.8	6.8	12.0	731016	36	820810
IH4	29	29.8	11.0	10.0	780606	58	670816
IH5	200	27.9	7.6	0.6	710720	61	670816
IH6	142	29.0	5.8	14.0	731119	53	910409
IH7	265	26.6	9.9	3.8	710922	77	610628
INL	47	29.3	5.9	12.0	780509	40	881114
LAC	100	25.1	7.0	5.0	920608	36	770629
LB	59	21.1	6.6	5.0	810729	36	690815
LQ1	264	29.2	5.6	8.5	711020	43	710727
LQ2	181	29.5	5.1	15.0	731024	39	860814
LS1	77	37.8	18.0	6.8	930715	64	900815
LS2	254	36.0	15.0	1.1	731017	68	901220
M1	24	12.8	9.0	0.0	900724	28	900530
M2	101	15.7	11.0	0.0	831101	39	891024
MB1	294	18.1	8.4	0.0	920414	39	900123
MB2	338	19.6	8.5	0.1	920311	43	640826
NB1	211	24.6	11.0	0.0	870611	49	890907
NB2	150	24.1	11.0	0.0	811112	67	670816
NB3	102	25.2	10.0	0.5	850605	51	630710
NB4	357	26.1	8.9	0.0	800826	41	890729
NB5	765	25.4	9.6	0.0	680115	42	881207
NB6	457	24.1	8.8	0.2	710914	41	880922
NB7	572	25.5	8.2	0.0	870706	62	670816
NB8	312	26.7	9.4	0.0	680115	48	630710
NB9	264	26.2	8.5	0.0	680115	46	630710
ND1	0						
ND2	30	19.8	11.0	0.0	811112	35	890519
ND3	0						
ND4	327	21.1	9.0	0.0	920331	50	891008
NR1	80	0.9	1.6	0.0	670928	8.8	720725
NR2	0						
NR3	48	6.2	9.2	0.2	711105	54	710506
NR4	177	10.8	10.0	0.0	871119	39	840731
NR5	103	9.7	10.0	0.1	710914	35	710505
OS1	74	4.6	6.8	0.0	900806	41	720425
OS2	0						
OS3	55	22.6	12.0	0.7	730630	47	770906
OS4	50	32.3	11.0	5.0	870929	58	900626
OS5	28	35.7	7.7	20.0	920422	50	900730
OS6	89	31.4	9.8	0.6	900806	52	880809

(continued)

Table 6-4
(continued)

Segmt	*No.of obs*	*Avg*	*Std devn*	*Min*	*date*	*Max*	*date*
PB1	164	12.9	8.8	0.0	831013	44	640401
PB2	201	14.5	8.9	0.0	790928	40	890918
RB1	145	22.5	7.4	4.0	760720	36	890615
RB2	98	25.3	8.1	4.0	920608	40	890918
RB3	189	25.3	7.2	5.0	920608	40	851107
RB4	153	25.9	6.2	4.2	760720	39	890718
RB5	291	27.7	5.8	4.9	760720	38	840914
RB6	120	25.9	6.5	8.0	920408	40	900703
RB7	165	28.8	5.2	14.0	780509	40	630815
RB8	275	25.9	6.4	4.2	760720	41	890227
RB9	220	28.6	6.5	1.8	670930	40	861007
SC1	187	11.1	8.0	0.0	680515	37	890620
SC2	446	13.4	9.4	0.0	680515	100	680515
SC3	543	15.1	7.2	0.3	680715	35	890717
UL01	68	33.9	5.8	22.0	870604	46	890523
UL02	180	33.1	6.8	11.0	671015	51	670715
UL03	339	35.8	8.2	8.9	671015	60	630826
UL04	86	32.6	6.6	0.5	900807	48	771205
UL05	106	35.5	8.2	17.0	870617	52	890407
UL06	234	37.0	8.6	11.0	671015	63	640915
UL07	249	36.5	9.3	11.0	671015	64	641115
UL08	97	37.1	7.9	24.0	820305	55	890919
UL09	104	36.5	7.2	19.0	920608	54	900925
UL10	203	38.3	9.1	18.0	680115	64	641115
UL11	30	35.3	7.2	11.0	731017	49	690916
UL12	0						
UL13	0						
UL14	38	35.3	10.0	19.0	590215	50	580715
GMI1	36	32.2	3.1	23.0	910521	37	910822
GMI2	140	32.6	3.8	3.6	900921	38	880713
GMI3	182	33.1	3.1	20.0	910521	38	880713
GMI4	178	31.9	4.8	16.0	731114	46	890718
GMI5	150	32.2	4.1	21.0	910613	39	880725
GMI6	214	30.0	5.4	3.0	930429	40	881114
GMI7	348	32.1	3.8	18.0	910604	40	880726
GMI8	181	31.3	5.2	10.0	920113	39	890613
GMI9	90	31.4	4.4	20.0	930629	38	880726
GMO1	0						
GMO2	2	21.1	7.2	14.0	801028	28	791106
GMO3	0						
GMO4	10	30.3	3.4	22.0	870318	35	861016
GMO5	47	31.6	3.1	24.0	870318	41	920817
GMO6	35	29.7	4.1	19.0	780613	37	770630
GMO7	75	31.1	3.4	24.0	870302	40	870903
GMO8	0						
GMO9	0						

Table 6-5
Statistics by Hydrographic Area
of water temperature (WQTEMP), °C, in upper 1 m

Segmt	*No.of obs*	*Avg*	*Std devn*	*Min*	*date*	*Max*	*date*
A1	471	20.7	5.9	8.5	660115	32	780614
A2	273	21.5	6.5	2	831230	34	850610
A3	372	21.5	6.1	6.5	730114	33	790815
A4	180	20.7	6.3	7.3	850124	32	810818
A5	172	21.7	5.7	11	700101	33	820916
A6	190	21.5	6.3	6.1	891218	34	880525
A8	110	21.4	6.1	7.2	590111	33	890519
A9	60	21.9	6.5	4.5	791218	32	910911
A10	276	21.1	6.2	8.1	910108	35	910605
A11	144	23	6.2	1	770113	34	880725
A12	311	22.2	6.3	5.1	890208	33	900611
A13	133	22.9	6.6	6.7	891213	36	890131
AL1	167	25.4	5.4	11	850208	35	910717
AL2	260	24.6	5.3	9	850208	34	810824
AR1	176	23.4	6.1	0.1	731029	34	790807
AYB	34	23.3	6	9.8	700101	30	690615
BF1	394	23.6	5.7	8.2	920115	36	800724
BF2	294	23.5	6.1	8	801222	35	820820
BF3	504	23.6	5.9	1.4	890412	39	911015
C01	201	22.8	5.9	8.9	761202	33	730726
C02	317	22.4	5.8	8.3	680116	33	790709
C03	322	22.7	6	6	760109	37	690815
C04	198	24.5	5.5	9.5	630115	32	630815
C05	136	22.9	5.8	6	730113	31	710827
C06	135	22.8	5.7	9	730115	37	700815
C07	176	22.4	6.1	6.5	730115	32	730726
C08	121	23.3	6.3	9.1	761202	33	650915
C09	570	23.8	5.8	2.5	860415	34	900806
C10	241	22.1	6	7.4	761202	30	710719
C11	400	23	5.7	7	730115	31	760802
C12	687	22.9	6.1	7.8	870122	34	800825
C13	50	24.6	5.7	9.5	850212	32	900620
C14	847	23.3	6	2.2	670929	39	700815
C15	957	23	6.1	2.3	831227	34	870722
C16	14	21	6	13	830124	29	900827
C17	389	23.1	5.8	6.5	730113	36	890706
C18	82	23.6	6.5	8	870122	32	630815
C19	108	22	6	8.9	770113	33	910605
C20	142	21.9	5.7	12	880121	32	810713
C21	236	22.9	5.9	7	730115	35	820617
C22	49	21.7	6.3	7	730115	30	720725
C23	44	22.9	5.6	9.6	890209	30	880714
C24	221	24	6	2.2	670929	36	810713

(continued)

Table 6-5
(continued)

Segmt	No.of obs	Avg	Std devn	Min	date	Max	date
C25	133	23.7	6	8	770201	37	920811
CB	323	22.6	5.8	6.5	730114	32	910605
CBH	14	26.5	3.9	15	921202	31	900613
CBY1	18	20.3	6.1	12	920312	30	900705
CBY2	45	21.9	7.3	8.3	660215	32	680815
CCC1	318	22.5	5.6	9	840125	34	820617
CCC2	91	22.4	6.4	8.6	870122	33	740723
CCC3	360	23.1	5.9	8	790109	33	930817
CCC4	109	21.7	5.8	7.9	870122	33	700815
CCC5	86	21.5	6.3	7.7	850124	30	720725
CCC6	156	22.5	6.3	7.6	770113	31	720714
CCC7	284	21.8	6	6	730113	31	710827
CCC8	276	22.3	6	6.4	880111	32	810713
CP01	32	23.7	6.8	4.5	891218	31	800617
CP02	342	22.7	6.1	4.4	891218	34	810811
CP03	467	21.2	6.1	0.5	831230	33	860826
CP04	335	21.7	6	8.3	800303	33	860724
CP05	286	21.6	6.2	1	831230	34	860610
CP06	105	22.7	6.3	9.4	800303	32	910528
CP07	188	22.6	6.1	2	831228	34	870908
CP08	241	23.3	5.9	2	831230	33	870805
CP09	161	22.1	6	2	831230	32	790626
CP10	489	21.9	6.2	5	891218	35	800821
EF	73	24.3	6.2	1.5	831230	34	800911
GR1	13	27.5	2.2	23	901220	31	910515
GR2	283	25.4	5.5	8.4	870123	36	860804
HI1	61	23	6	6.6	770113	32	900703
HI2	92	23.1	6.3	9.5	780201	35	850611
I1	3	24.2	1.1	23	930405	25	660915
I2	95	23.7	5.9	8.2	660215	32	690701
I3	165	23.3	6	5.3	730114	32	660515
I4	203	21.7	6.4	6	660115	31	890620
I5	123	21.8	6.6	6.6	660115	31	870617
I6	323	20.9	6.2	6.8	660115	32	810818
I7	331	22.8	6.3	7.5	850124	37	660915
I8	81	23.5	6.2	9.5	700101	36	890710
I9	215	22.4	6.1	6.1	750207	32	910626
I10	118	24.8	6.2	6.9	761202	34	810814
I11	108	24.1	5.9	7.9	770201	34	810814
I12	135	23.9	5.5	9	770111	33	920520
I13	405	23.5	6.4	3.5	630114	37	911015
I14	107	24.3	6.3	8.5	790116	38	830803
I15	142	24.1	6.1	5	850122	33	910703
I16	61	25.5	6.3	5	850122	35	920625

(continued)

Table 6-5
(continued)

Segmt	*No.of obs*	*Avg*	*Std devn*	*Min*	*date*	*Max*	*date*
I17	147	23.8	5.7	8.5	770111	35	870702
I18	118	23.5	6.2	4	630114	32	920903
IH1	149	23.9	5.8	10	670118	32	810713
IH2	3	28.8	0.4	28	820810	29	820810
IH3	31	25.5	4.7	12	730221	30	720725
IH4	24	25.8	6.1	9.4	690128	33	821001
IH5	185	24.2	5.9	9.4	670118	35	850819
IH6	134	24	5.8	12	770105	32	850812
IH7	256	24.1	5.7	8.1	770113	33	690815
INL	47	23.6	6.4	6	831228	32	790831
LAC	88	22	6.1	7.3	660115	33	930809
LB	59	22.9	6.6	3.9	891218	33	810729
LQ1	265	23.2	5.9	9.4	770113	34	870622
LQ2	173	22.9	5.9	8.4	880111	32	810813
LS1	77	23.7	5.3	8	920115	33	910809
LS2	252	24.6	5.7	2.7	860508	35	820623
M1	24	25.9	5.1	11	851217	33	860611
M2	104	23.1	5.6	9	910122	33	860611
MB1	298	21.5	6.6	7.5	790116	33	680915
MB2	349	21.5	6.4	7.8	581216	32	810818
NB1	201	23	5.5	10	911204	36	890706
NB2	147	23	5.7	7.8	940202	32	810713
NB3	149	24.1	6	6.1	850124	33	930728
NB4	346	22	5.4	6.4	850124	32	910618
NB5	753	22.7	5.6	6.4	850124	33	910617
NB6	476	26.2	6.4	3	730113	39	850918
NB7	585	24.6	6.3	7.8	940202	38	930729
NB8	309	23.4	5.9	7.8	940202	33	630815
NB9	264	22.7	6.1	7	880111	33	890706
ND1	0						
ND2	30	23.6	5	12	780907	32	790724
ND3	0						
ND4	326	22.6	6	6.4	891220	36	950630
NR1	80	24.6	6.1	7	700105	32	720726
NR2	0						
NR3	48	25	3.7	18	721116	32	720725
NR4	171	23.6	6.2	2.2	831227	34	830826
NR5	103	24.3	5.3	9.9	740112	33	710719
OS1	76	23.6	6.2	6.7	720131	34	880809
OS2	0						
OS3	58	24	7	4.4	720115	35	900904
OS4	50	24.6	6.7	9.2	891220	35	860610
OS5	28	24.6	6.6	13	921218	38	910718
OS6	85	24.9	6.2	6.2	890209	34	920623
OS7	216	24.5	6.1	6.1	850123	35	910718

(continued)

Table 6-5
(continued)

Segmt	*No.of obs*	*Avg*	*Std devn*	*Min*	*date*	*Max*	*date*
PB1	164	23.2	5.6	6.8	850124	33	840626
PB2	201	23.6	5.8	7.8	911105	33	830718
RB1	149	23.8	5.9	7	660115	34	930817
RB2	99	25.2	5.5	4.2	890208	33	900806
RB3	189	24.4	5.7	11	820209	36	660915
RB4	158	24.1	5.9	6	790109	35	870722
RB5	292	23.9	5.7	1	831230	32	800722
RB6	120	22.6	6.7	7.5	721215	34	900703
RB7	165	24.2	5.7	9.5	630115	34	810722
RB8	275	23.1	6	7.6	850207	34	850923
RB9	220	24	6.4	6	831228	34	910605
SC1	186	23.8	5.7	9.4	700301	34	800717
SC2	440	22.9	6.4	7.8	891220	45	690501
SC3	539	23.3	6	5.5	850122	34	860708
UL01	68	24.9	6	6	791217	35	880824
UL02	180	25	5.6	6.5	860109	37	860930
UL03	318	23.5	6.3	3.5	630114	37	860930
UL04	82	23.8	5.8	8	770111	32	860716
UL05	104	25.4	6.3	8	781211	38	860930
UL06	214	23.7	6.1	2.1	630114	34	860818
UL07	231	24.2	6.2	5.5	791217	35	920703
UL08	97	25.5	5.2	9	790116	34	910627
UL09	104	24.6	5.6	10	840124	33	890711
UL10	185	24.1	6.4	2	840308	33	790628
UL11	30	24.3	6	11	850118	31	680827
UL12	0						
UL13	0						
UL14	2	30	2.7	27	871006	33	880802
GMI1	36	24.7	4.0	18.0	931123	30	910822
GMI2	140	24.9	4.4	10.0	890210	32	910822
GMI3	182	24.6	4.8	9.3	890210	31	910812
GMI4	177	24.0	6.1	9.5	790222	33	830810
GMI5	150	24.6	5.1	12.0	910116	33	880725
GMI6	214	23.8	5.5	11.0	820209	32	860724
GMI7	348	23.7	5.7	11.0	850212	35	890713
GMI8	181	24.8	5.9	11.0	650301	33	880823
GMI9	90	24.8	5.3	15.0	880223	33	890823
GMO1	0						
GMO2	2	25.0	1.0	24.0	801028	26	791106
GMO3	0						
GMO4	10	20.8	4.4	15.0	900224	28	890916
GMO5	47	19.7	5.1	9.9	891226	29	920817
GMO6	36	21.3	4.8	12.0	780224	29	860818
GMO7	75	20.5	5.2	12.0	850212	35	920709
GMO8	0						
GMO9	0						

Table 6-6
Statistics by Hydrographic Area
of dissolved oxygen (WQDO), ppm, in upper 1 m

Segmt	*No.of obs*	*Avg*	*Std devn*	*Min*	*date*	*Max*	*date*
A1	191	8.5	1.6	4.4	900828	15	861029
A2	193	8.8	2.2	5	810826	21	850610
A3	196	8.8	1.6	5	831208	14	850130
A4	101	8.5	1.7	5.8	860927	13	720127
A5	115	8.8	2.1	0.1	870608	16	861119
A6	107	9.2	2.9	4	780810	19	861120
A8	57	9.1	3	2.4	930812	19	920723
A9	56	9.3	2.1	4.6	890828	14	870924
A10	151	8.5	1.9	2.6	930907	13	881102
A11	128	8.2	1.8	3.9	900710	14	840126
A12	242	8.7	2.2	3.9	900710	21	851008
A13	87	8.7	2.2	2.9	920903	16	811020
AL1	167	7.3	2	0.7	890919	15	870416
AL2	260	7.3	1.9	2	880518	14	820430
AR1	175	8.6	2	4.7	710708	17	850729
AYB	34	7.3	1.3	4.5	690815	10	691215
BF1	304	7.2	1.9	1	820212	18	861216
BF2	248	7.1	2	1.5	871019	14	930728
BF3	371	7	2.2	0.3	920722	15	740117
C01	127	8.2	1.6	4.2	920819	12	700825
C02	186	7.7	1.5	3.7	880323	12	740116
C03	222	8	2	2	690715	14	690425
C04	129	7.1	2.1	2.5	700915	13	720725
C05	138	7.7	1.6	3.4	520324	12	750130
C06	132	7.2	1.8	2.5	690815	12	671207
C07	160	8	1.5	3	840222	13	730115
C08	40	7.9	1.7	3.4	880323	12	720725
C09	427	8.1	1.7	2	811021	14	860127
C10	207	7.8	1.5	3.5	880323	13	730115
C11	366	7.8	1.5	4.1	520629	14	870817
C12	498	7.9	1.8	2	830330	18	870804
C13	46	8.1	2	4	841031	14	830307
C14	597	7.9	1.8	2	690815	15	860304
C15	732	7.6	1.5	1.6	710720	17	720204
C16	16	7.1	1.6	4	830608	9.3	671002
C17	336	8	1.9	3	831116	16	870312
C18	29	6.6	1.7	3	831116	11	870122
C19	51	8.4	2	5	781122	16	870128
C20	94	8	1.3	2.3	730726	11	700825
C21	150	8	1.7	2	781010	15	870416
C22	49	7.8	1.8	5.3	730918	12	730115
C23	41	8.2	1.8	3.6	880323	12	900925
C24	211	7.7	2.2	3	820127	16	861111

(continued)

Table 6-6
(continued)

Segmt	No.of obs	Avg	Std devn	Min	date	Max	date
C25	129	7.6	2.4	2.5	800716	20	931223
CB	301	8.6	2.2	3	920803	18	871111
CBH	13	8.2	1.9	5	841010	11	850312
CBY1	17	9.1	1.9	5.9	900705	14	861014
CBY2	4	9.2	2.2	6.8	901206	13	920113
CCC1	293	7.8	1.7	1.6	740604	17	850226
CCC2	48	7.7	1.6	4	800522	11	870930
CCC3	289	8	1.8	3.7	880323	17	820521
CCC4	67	7	2.1	2.5	690715	12	860206
CCC5	66	7.5	1.4	3.8	880323	10	870402
CCC6	115	7.3	1.5	3.5	690717	14	770105
CCC7	255	8.3	1.7	4.8	880323	13	880215
CCC8	186	7.6	1.6	3.2	880412	13	700825
CP01	32	8.7	2.1	4.1	931020	13	891218
CP02	265	8.6	2.1	0.1	870507	15	860110
CP03	298	8.6	2.1	3.1	730615	16	831230
CP04	200	8.7	1.7	4	820818	16	811216
CP05	189	8.3	1.8	4.7	710915	16	831230
CP06	60	8.4	2	5	840925	13	861216
CP07	178	8.5	1.8	2	921026	16	840126
CP08	203	8.6	2.1	1.4	920623	19	900925
CP09	154	8.7	1.8	5	690901	16	861028
CP10	336	8.5	1.8	4	820806	15	800821
EF	73	8.5	2.2	3.9	901120	17	841210
GR1	13	7.4	2.7	4	890323	13	930512
GR2	282	7.2	2.2	0	820820	18	861216
HI1	43	8.4	2.2	4.4	930428	15	840105
HI2	92	8.3	1.9	3.6	911216	14	870616
I1	2	9.8	3.9	5.9	870825	14	930405
I2	92	7.9	1.6	4	690915	13	900924
I3	157	8.7	2.4	1.7	901008	18	871111
I4	90	8	1.5	5	690815	11	741119
I5	70	8.8	1.7	5	760819	17	731015
I6	149	8.2	1.7	4	820701	14	770120
I7	240	8	2	1.5	811116	16	880926
I8	64	8	2.2	4.6	900710	17	870401
I9	196	7.1	2.2	1.8	880412	14	720928
I10	72	7.7	2	4.3	900904	17	860324
I11	108	7.6	2.2	0.7	820315	13	931217
I12	135	7.7	1.8	3.7	861103	12	870416
I13	172	7.4	4.9	2	890308	67	860921
I14	107	6.8	2.4	1.9	910917	15	850709
I15	113	6.7	1.9	0.2	920812	12	720928
I16	61	6.7	1.9	0.9	910612	10	860903

(continued)

Table 6-6
(continued)

Segmt	*No.of obs*	*Avg*	*Std devn*	*Min*	*date*	*Max*	*date*
I17	113	7.3	1.5	4.2	920211	12	740117
I18	53	6.8	1.9	3	831117	13	861104
IH1	145	7.3	2.6	0	690918	15	770127
IH2	13	6.6	1.6	4.7	720425	8.9	720428
IH3	42	6.8	2.3	2	720601	11	720327
IH4	26	6.9	2.1	4.3	670524	14	670816
IH5	187	7.4	2.6	0.6	690918	17	731024
IH6	133	6.6	2.4	0	700815	16	770127
IH7	223	6.7	1.7	1.3	711111	13	720725
INL	43	8	1.5	5.5	920903	13	870112
LAC	85	8.1	1.9	3.9	760819	14	870112
LB	59	8.6	2.5	4	690901	19	861112
LQ1	165	7.9	1.5	2	810313	12	831117
LQ2	160	7.9	1.9	3.3	520406	17	870416
LS1	22	7	2.6	3	910809	13	930526
LS2	228	7.3	2.1	2	880622	16	930726
M1	24	8.1	2	4.8	920624	13	850409
M2	72	8.3	2.1	1.5	870615	15	880614
MB1	189	8.7	2	4.8	930409	19	900924
MB2	219	8.4	1.9	4.6	900705	15	790514
NB1	184	7.8	2.2	2.9	880324	17	880216
NB2	91	7.8	2	3.1	880324	15	900912
NB3	127	7.4	1.8	2.3	880324	16	900912
NB4	302	7.9	1.6	3	811027	12	861016
NB5	656	7.9	1.7	1.5	690915	19	721213
NB6	389	7.1	1.6	0	770301	13	900912
NB7	390	7.3	1.9	0	770301	16	841114
NB8	97	7.5	1.5	4	791113	11	831018
NB9	120	8.2	2.1	3.9	880324	16	900918
ND1	0						
ND2	30	8.1	1.4	6	790525	11	790724
ND3	0						
ND4	326	7.6	1.9	2.3	950731	14	891220
NR1	78	8	1.8	3.5	710719	12	720726
NR2	0						
NR3	48	7.8	2.4	4	710719	13	730418
NR4	169	9.5	2.9	0.7	880901	24	820917
NR5	101	8.1	2.2	2.7	710505	15	701012
OS1	76	9.8	5	0	800211	27	750205
OS2	0						
OS3	59	8.1	2.3	0	740331	13	790206
OS4	50	8.3	2.4	3.8	880426	18	931216
OS5	28	8.5	1.8	5.3	920623	12	910816
OS6	84	7.6	2	3.2	930818	13	930318
OS7	155	8.2	2	4	791012	17	841031

(continued)

Table 6-6
(continued)

Segmt	*No.of obs*	*Avg*	*Std devn*	*Min*	*date*	*Max*	*date*
PB1	158	8.4	1.8	0	780523	14	930422
PB2	180	9.2	2.6	0.1	870226	18	771219
RB1	137	9.1	2.5	2.8	920707	16	830913
RB2	94	9.2	3.2	1.1	870903	22	861008
RB3	180	8.5	2.2	4	890531	16	871007
RB4	145	8.6	5.2	3.6	921007	67	830511
RB5	282	8.5	2	3.2	920918	15	840523
RB6	120	8.3	1.8	4.2	930608	16	860407
RB7	96	8.3	2.2	5	840425	18	810722
RB8	266	7.8	1.5	4.3	880817	15	881123
RB9	137	8.4	2.3	2	820202	17	810708
SC1	165	7.9	1.7	4	690901	14	861216
SC2	312	8.6	2.4	3	690901	20	911111
SC3	517	8.4	2.5	0.1	870507	19	860708
UL01	68	7.8	2	4	690815	13	930520
UL02	151	7.6	2.2	1.4	880908	15	930520
UL03	226	6.5	2.5	0.3	920921	14	930513
UL04	81	7.9	1.6	4.8	850501	12	930422
UL05	104	7.9	2.2	1	890308	15	920622
UL06	150	6.3	2.2	1.8	920608	14	840207
UL07	134	7.5	1.7	4	690815	13	901002
UL08	97	6.6	2.2	2.1	930525	12	811110
UL09	104	7	1.7	3	831101	10	930825
UL10	117	7.1	1.6	2.6	930921	10	690415
UL11	30	6.6	2.2	3	850118	14	720928
UL12	0						
UL13	0						
UL14	2	8.2	1.8	6.3	871006	10	880802
GMI1	36	6.4	1.2	4.7	900620	8.9	931123
GMI2	140	6.4	1.1	4.4	900705	9	880225
GMI3	182	6.4	1.1	4.6	900614	9.4	890210
GMI4	177	7.0	1.6	4.6	890905	14	800909
GMI5	149	6.5	1.2	4.8	891108	11	900517
GMI6	211	7.1	1.4	4.3	721127	12	820209
GMI7	348	7.3	1.5	4.5	880926	15	880714
GMI8	164	7.4	1.5	4.8	880926	13	880823
GMI9	90	7.8	2.2	5.6	880726	17	880823
GMO1	0						
GMO2	2	7.5	0.5	7.0	791106	8	801028
GMO3	0						
GMO4	10	7.9	1.3	6.1	890916	10	850416
GMO5	47	8.3	2.3	5.7	920817	21	920618
GMO6	35	7.8	1.1	5.7	780613	9.7	870302
GMO7	75	8.2	1.5	4.0	851002	11	920709
GMO8	0						
GMO9	0						

Table 6-7
Statistics by Hydrographic Area
of dissolved oxygen deficit (WQDODEF), ppm, in upper 1 m

Segmt	*No.of obs*	*Avg*	*Std devn*	*Min*	*date*	*Max*	*date*
A1	185	-0.4	1.5	-7.1	861029	4.3	840207
A2	192	-0.7	2	-14	850610	4.1	840207
A3	190	-0.7	1.3	-5.3	850130	4.3	840207
A4	98	-0.4	1.3	-4.7	720127	2.1	850107
A5	112	-0.9	1.9	-7.4	861119	7.9	870608
A6	105	-1.3	2.8	-11	861120	4.6	800118
A8	55	-1.4	2.9	-12	920723	4.5	930812
A9	54	-1.4	2	-6.9	870924	3.3	910320
A10	148	-0.7	1.7	-5.5	881102	4	840207
A11	128	-0.7	1.6	-5.7	901003	3	850117
A12	240	-0.9	2.1	-14	851008	4.9	850117
A13	87	-1.4	2.1	-8.7	811020	3.8	920903
AL1	167	-0.7	1.8	-8.7	870416	4.2	890919
AL2	260	-0.6	1.7	-6.9	820430	4.8	850208
AR1	171	-0.5	1.9	-9.9	850729	5.5	731029
AYB	34	0.4	0.8	-2.1	691215	1.8	690815
BF1	300	-0.3	1.7	-11	861216	7.5	820212
BF2	247	-0.3	2	-6.7	930728	5	871019
BF3	369	-0.2	2.1	-7.3	910828	6.5	920722
C01	102	-0.9	1.3	-4.8	730628	2.6	920819
C02	157	-0.4	1.4	-4.7	720725	4	880323
C03	197	-0.6	2	-7.1	890801	5.2	701115
C04	127	0.2	2.2	-6.5	720725	5.4	850212
C05	131	-0.3	1.4	-4.5	720725	2.8	670930
C06	129	0.2	1.6	-3.6	671207	6.4	850212
C07	157	-0.5	1.3	-5.4	720725	5.6	840222
C08	35	-0.4	1.9	-5.4	720725	4.6	880323
C09	423	-0.9	1.7	-7.4	900806	5	811021
C10	204	-0.3	1.3	-4.6	720725	4.6	880323
C11	364	-0.4	1.3	-7.2	870817	2.4	860927
C12	492	-0.6	1.7	-12	870804	5.5	830330
C13	45	-0.8	1.9	-6.8	830307	2.5	820127
C14	592	-0.6	1.7	-7.7	860304	6	691115
C15	693	-0.1	1.3	-7	720204	5.1	700115
C16	13	0.6	1.7	-1.5	911122	3.5	670930
C17	327	-0.7	1.9	-8.5	910801	4.9	880323
C18	21	0.5	1.6	-1.9	850903	4.8	831116
C19	45	-1.3	2.1	-9	870128	2.8	781122
C20	88	-0.5	1.2	-3.1	700930	4.2	730726
C21	143	-0.7	1.7	-7.6	870416	5.3	840125
C22	48	-0.2	1.6	-5.6	720725	2.2	840308
C23	40	-0.8	1.9	-4.9	900925	5.1	880121
C24	209	-0.6	2.3	-9.6	861111	5.1	820127

(continued)

Table 6-7
(continued)

Segmt	*No.of obs*	*Avg*	*Std devn*	*Min*	*date*	*Max*	*date*
C25	129	-0.5	2.3	-9.4	931223	5.8	831221
CB	301	-0.7	2	-10	900925	3.9	920803
CBH	13	-1.2	1.6	-3.6	850312	1.8	841010
CBY1	17	-0.8	1.6	-5.9	861014	0.7	921203
CBY2	4	-1.2	1.8	-3.1	920113	1.4	901206
CCC1	289	-0.3	1.7	-9.1	701012	5.3	740604
CCC2	45	-0.3	1.6	-4.7	870930	2.9	911125
CCC3	281	-0.7	1.7	-10	820521	4.3	801124
CCC4	65	0.3	2	-4.4	840525	4.8	700415
CCC5	61	0	1.3	-3.6	720725	4	880323
CCC6	111	0	1.3	-3.6	770105	5.5	850212
CCC7	250	-0.8	1.4	-6.3	720725	3.3	880323
CCC8	161	-0.1	1.2	-3	720725	4.2	880412
CP01	32	-0.9	1.8	-4.8	901012	3	931020
CP02	264	-0.6	2.1	-8.6	880816	7.9	870507
CP03	295	-0.4	1.8	-6.6	821014	5.1	730615
CP04	197	-0.7	1.7	-7.7	901002	3.4	820818
CP05	188	0	1.3	-5	720724	3.6	710915
CP06	57	-0.6	2	-6.4	901001	4.6	841207
CP07	177	-0.3	1.4	-5.2	850820	5.6	921026
CP08	203	-0.7	2	-12	900925	6.5	920623
CP09	153	-0.5	1.5	-9	861028	2.5	840223
CP10	327	-0.5	1.6	-8.5	800821	3.2	800215
EF	73	-1.4	2.3	-9.6	841210	3.6	831230
GR1	13	-1.4	2.1	-5.4	930512	1.4	890323
GR2	282	-0.5	2.1	-10	861216	6.5	820820
HI1	43	-1.1	1.8	-6.9	840105	3	930428
HI2	92	-0.9	2	-6.9	870616	5.1	911216
I1	1	-5.6	0	-5.6	930405	0	0
I2	92	-0.2	1.5	-6.1	900924	3.2	690915
I3	157	-0.8	2.1	-10	870923	5.1	901008
I4	88	-0.3	1.5	-4.3	890620	4.1	840207
I5	70	-0.8	1.6	-8.9	731015	1.8	760819
I6	145	-0.4	1.4	-5.6	760712	4.3	840207
I7	236	-0.4	1.9	-9.7	880926	6.3	811116
I8	64	-0.7	2.1	-8.9	870401	1.9	900710
I9	189	0.2	2.1	-7.6	720928	5.9	880412
I10	70	-0.8	1.9	-9.8	860324	3.1	820226
I11	108	-0.6	2.2	-6.2	931217	6.5	820315
I12	135	-0.8	1.7	-6.6	900918	3.1	861103
I13	169	-0.6	4.9	-60	860921	6.6	890308
I14	107	0	2.6	-9.1	850709	6.6	890308
I15	113	0.2	1.9	-5.6	720928	6.4	920812
I16	61	0	2.1	-4.2	860903	6.2	850122

(continued)

Table 6-7
(continued)

Segmt	*No.of obs*	*Avg*	*Std devn*	*Min*	*date*	*Max*	*date*
I17	111	-0.4	1.1	-4.3	930915	3.5	920211
I18	53	-0.1	2	-6.2	861104	4.2	831117
IH1	136	0	2.4	-7	720725	6.2	690918
IH2	3	0.9	0.4	0.3	820810	1.2	820810
IH3	31	0.2	2.3	-4.3	720725	5	720601
IH4	15	0.3	1.7	-4	840531	2.2	840213
IH5	168	-0.1	2.4	-9.5	731024	5.6	690918
IH6	130	0.6	2.1	-7.4	770127	6.4	700815
IH7	194	0.8	1.5	-6.3	720725	6.5	711111
INL	42	-0.7	1.2	-3.4	850923	1.4	780509
LAC	85	-0.5	1.6	-4.8	881220	2.9	760819
LB	59	-0.8	2.3	-11	861112	2.5	690901
LQ1	163	-0.6	1.5	-4.5	800909	6.4	810313
LQ2	147	-0.6	1.8	-11	870416	3.6	811118
LS1	22	-0.6	2.1	-5.8	930526	2.5	910809
LS2	227	-0.5	2	-8.3	930726	4.4	921120
M1	24	-0.4	1.8	-4.4	850409	3	920624
M2	72	-0.5	1.9	-8.5	880614	6.2	870615
MB1	185	-0.7	1.6	-12	900924	3.7	930409
MB2	215	-0.6	1.6	-7.4	831121	3.1	930409
NB1	175	-0.2	2.4	-8.6	880216	5.6	880121
NB2	81	-0.4	2.1	-7.3	900912	4.5	880121
NB3	82	-0.1	1.8	-8.6	900912	5.3	880324
NB4	295	-0.3	1.5	-5.2	861016	5.2	811027
NB5	643	-0.2	1.5	-8.5	721213	4.6	690915
NB6	386	0.1	1.3	-5.9	900912	8.1	770301
NB7	375	-0.1	1.8	-8.7	841114	8	770301
NB8	90	-0.1	1.6	-4.4	831018	3.9	880121
NB9	117	-1	2	-9.3	900918	3.3	880324
ND1	0						
ND2	30	-0.4	1.7	-4.2	890519	2	811112
ND3	0						
ND4	326	0.1	1.6	-6	940430	4.6	950731
NR1	74	0.5	1.8	-4.7	720726	7.1	700105
NR2	0						
NR3	48	0.2	2.3	-4.8	730418	3.8	731016
NR4	167	-1.4	2.8	-17	820917	6.2	880901
NR5	101	0	2	-7.1	701012	4.1	710505
OS1	71	-1.6	5.4	-18	750205	10	800211
OS2	0						
OS3	54	-0.6	2	-5.3	730518	8.3	740331
OS4	50	-1.3	2.1	-11	931216	2.5	880426
OS5	28	-1.7	1.8	-6.1	910816	1.3	920623
OS6	84	-0.6	1.9	-5.5	841030	3.5	930209
OS7	155	-1.1	1.9	-10	841031	3.6	931104

(continued)

Table 6-7
(continued)

Segmt	*No.of obs*	*Avg*	*Std devn*	*Min*	*date*	*Max*	*date*
PB1	158	-0.3	1.5	-6.1	930422	7.5	780523
PB2	180	-1.3	2.5	-10	771219	9.2	870226
RB1	134	-1.6	2.5	-9	830913	4.1	920707
RB2	93	-2	3.2	-16	861008	6.5	921009
RB3	180	-1.2	2.2	-9.2	880427	2.8	861118
RB4	142	-1.3	5.3	-60	830511	4	921007
RB5	279	-1.2	1.9	-8.6	840523	3.6	831230
RB6	120	-0.8	1.6	-9.8	860407	2.3	930608
RB7	96	-1.1	2.2	-12	810722	2.5	791207
RB8	259	-0.3	1.3	-7.6	881123	2.6	791227
RB9	137	-1.2	2.5	-10	810708	6.5	820202
SC1	165	0.1	1.6	-5.1	860423	4.1	700601
SC2	312	-0.6	2.4	-13	880816	4.7	690901
SC3	516	-0.5	2.3	-13	860708	7.6	870507
UL01	68	-0.9	2	-6.1	930520	3.9	910115
UL02	151	-0.8	2.3	-8.3	930520	6.1	890308
UL03	226	0.4	2.4	-6.7	930513	6.3	920921
UL04	81	-0.9	1.5	-4.9	841011	1.7	850501
UL05	104	-1.2	2.3	-9	920622	7.3	890308
UL06	150	0.5	2.1	-6.5	880223	5.8	890308
UL07	133	-0.6	1.8	-7.6	901002	3.4	840124
UL08	97	0.1	2.1	-4	811110	5.2	930525
UL09	104	-0.2	1.7	-4.5	901002	4.5	890308
UL10	117	-0.3	1.7	-3.5	690415	5.9	840308
UL11	30	0.3	2.3	-8.2	720928	5.7	850118
UL12	0						
UL13	0						
UL14	2	-2.3	2.2	-4.5	880802	0	0
GMI1	36	0.6	0.8	-0.9	931123	2.0	911127
GMI2	140	0.5	0.7	-0.9	880225	2.9	900921
GMI3	180	0.5	0.6	-0.9	880225	1.7	910926
GMI4	173	0.1	1.1	-7.7	800909	1.9	901121
GMI5	149	0.4	0.8	-3.9	900517	2.3	931122
GMI6	208	0.1	1.1	-3.8	910716	3.2	700305
GMI7	343	-0.3	1.3	-8.9	880714	2.3	850212
GMI8	164	-0.4	1.3	-7.1	880823	1.8	880926
GMI9	90	-0.9	2.1	-11.0	880823	0.6	921027
GMO1	0						
GMO2	2	-0.1	0.0	-0.2	801028	0.0	
GMO3	0						
GMO4	10	-0.4	1.2	-2.8	850416	1.0	891020
GMO5	47	-0.7	2.4	-14.0	920618	2.5	850213
GMO6	34	-0.3	1.0	-2.7	720919	1.3	780613
GMO7	75	-0.7	1.4	-5.5	920709	3.0	851002
GMO8	0						
GMO9	0						

Table 6-8
Monthly average values for period-of-record by hydrographic segment and principal bay
Water quality parameter WQSAL, upper 1 meter

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
A1	15.3	15.0	15.9	15.3	15.4	13.8	12.2	22.7	21.8	18.9	16.1	16.4
A2	15.2	16.5	18.4	16.5	11.8	17.7	15.2	21.3	18.1	18.0	16.2	14.4
A3	16.9	17.3	17.5	16.8	15.6	15.3	11.3	18.4	18.2	16.6	15.2	15.3
A4	18.0	19.9	18.3	14.9	17.4	21.3	24.4	22.8	24.4	22.1	17.6	16.7
A5	14.9	17.7	17.8	18.0	16.4	17.8	16.3	22.4	18.7	18.9	18.5	16.9
A6	17.6	18.0	17.7	22.1	17.8	18.8	16.5	23.7	22.6	20.4	20.3	18.7
A8	15.2	14.1	20.3	20.7	20.9	13.4	9.3	21.4	23.5	23.3	19.3	17.1
A9	11.8	19.7	25.0	13.3	23.2	18.3	26.3	32.0	24.8	17.4	21.9	19.3
A10	16.9	17.3	19.1	17.7	21.7	16.8	16.2	26.6	23.0	21.2	19.9	17.5
A11	19.9	18.5	21.3	22.5	21.3	19.0	25.6	29.3	29.0	25.0	21.7	20.7
A12	19.7	19.0	23.3	20.8	18.3	22.2	22.7	28.0	29.3	22.5	18.2	20.7
A13	20.3	17.6	23.5	23.0	24.6	24.0	25.4	29.1	31.1	26.1	22.9	23.1
AL1	29.0	34.7	35.3	37.6	38.2	26.4	30.8	48.7	51.0	44.2	40.5	37.4
AL2	41.9	31.2	38.5	36.5	39.1	29.1	31.3	39.3	39.0	42.7	37.1	40.4
AR1	11.4	11.7	9.6	10.9	13.3	10.9	9.0	9.6	11.5	13.2	11.0	10.4
AYB		19.5	19.4	20.0	16.5	25.0	23.8	28.2	25.9	19.8	21.1	18.2
BF1	33.6	38.7	37.3	35.0	35.5	36.3	30.7	42.2	39.3	38.6	39.4	33.9
BF2	39.9	36.2	39.4	38.7	36.5	36.0	31.8	40.4	43.8	38.4	40.6	35.8
BF3	37.3	38.1	37.8	37.5	35.8	36.0	35.8	38.6	45.0	37.6	41.4	38.5
C01	28.4	25.6	27.5	29.2	29.7	34.4	28.7	32.3	31.2	25.8	24.9	26.2
C02	29.5	27.1	30.1	28.4	30.1	37.8	27.3	32.1	32.6	28.0	27.8	28.1
C03	28.8	26.0	27.7	28.5	31.3	32.1	31.6	35.6	29.7	29.4	23.7	27.5
C04	29.7	30.7	28.8	29.2	27.1	25.8	31.0	23.8	20.3	21.5	27.9	32.6
C05	24.6	30.0	29.2	29.7	28.3	28.0	26.7	24.2	17.1	24.4	20.8	27.3
C06	25.8	29.6	29.3	28.5	31.0	29.3	28.9	31.6	24.3	21.9	24.4	25.0
C07	27.8	26.4	30.0	30.4	29.8	30.0	32.5	29.6	27.0	26.4	26.0	26.0
C08	29.3	31.4	31.7	31.8	29.2	29.5	31.3	31.8	32.8	33.3	27.6	30.6

(continued)

Table 6-8
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
C09	29.0	27.7	28.7	30.3	30.5	30.3	31.9	32.6	31.5	31.9	28.1	28.8
C10	27.4	28.5	28.5	29.4	31.0	31.4	30.8	31.1	26.0	26.5	26.4	26.2
C11	28.2	27.2	28.1	28.1	29.3	29.4	32.0	29.6	23.6	25.7	24.3	26.9
C12	27.9	27.3	28.3	28.7	28.2	28.7	32.0	32.9	32.6	30.9	27.2	27.7
C13	24.0	27.0	32.4	25.2	31.0	29.0		31.5	27.7	28.1	28.0	29.5
C14	29.1	29.4	28.9	29.7	28.4	31.3	34.1	34.8	32.3	29.4	27.8	29.3
C15	27.7	27.7	27.5	28.2	26.9	24.2	23.2	26.4	20.8	23.1	23.0	25.3
C16		29.1		36.0	34.6	29.0			2.4	18.4	27.3	
C17	29.2	28.6	28.6	29.5	28.6	25.1	25.1	26.5	26.5	29.2	27.9	31.2
C18	32.1	32.8	31.0	33.8	27.7	26.6	26.2	35.0	30.7	29.1	33.1	30.9
C19	28.9	27.7	30.3	29.7	28.4	25.2	28.0	34.4	31.2	30.9	29.4	26.7
C20	25.7	27.6	29.5	30.9	28.2	25.0	29.2	32.1	28.7	26.6	25.7	25.9
C21	28.8	30.4	30.7	30.9	29.5	28.7	29.5	32.8	33.2	31.7	25.1	29.7
C22	26.4	30.0	28.0	29.7	27.1	29.6	28.2	29.4	29.7	24.4	24.3	27.6
C23	30.6	29.5	30.5	31.3	28.5	34.0		35.1	29.8	31.1	32.1	
C24	28.4	29.2	28.7	30.5	31.6	33.1	31.2	33.5	31.3	29.9	29.4	32.1
C25		27.4	29.0	28.9	28.3	35.6		33.5	30.8	31.0	33.2	29.2
CB	16.2	18.5	17.9	15.7	14.8	14.7	14.4	23.4	25.5	16.1	16.7	14.3
CBH				15.1	27.3				29.0	19.5		
CBY1			13.0				23.3			21.7		27.7
CBY2	23.3	24.2	26.5	24.5	23.6	24.2	30.1	33.5	34.2	29.6	25.9	30.3
CCC1	27.3	27.6	28.7	28.8	29.2	29.6	33.3	34.6	26.9	29.0	23.6	27.7
CCC2	27.1	29.1	28.2	29.3	28.9	27.7	26.1	35.3	31.8	29.7	28.5	27.3
CCC3	28.3	26.7	28.1	28.7	29.5	28.7	31.9	32.3	28.8	29.4	27.2	25.4
CCC4	29.4	27.3	26.2	27.3	26.5	25.2	28.9	35.0	28.3	30.4	30.9	27.9
CCC5	28.9	32.5	29.8	32.3	30.1	33.9	28.9	35.0	29.3	33.5	27.0	23.8
CCC6	29.7	28.9	29.6	28.9	29.4	27.4	27.2	31.2	28.9	30.6	31.3	28.3

(continued)

Table 6-8
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
CCC7	28.4	30.3	28.4	30.0	29.4	24.9	28.1	20.3	24.6	27.9	24.3	29.4
CCC8	27.8	28.0	29.7	26.5	28.2	35.0	26.7	31.2	31.7	28.9	27.2	27.4
CP01	22.0			10.5	18.8	21.7			17.2	19.0	13.0	13.2
CP02	18.4	16.4	16.1	17.4	13.9	13.2	15.0	14.2	19.5	15.1	13.9	14.9
CP03	13.9	12.9	14.5	12.7	14.5	12.1	8.1	13.1	11.6	15.2	10.0	14.3
CP04	17.4	15.8	15.4	14.4	15.5	13.2	13.8	18.6	16.5	15.9	14.3	17.1
CP05	14.5	13.8	15.4	14.0	12.5	11.3	10.3	16.0	11.6	13.6	12.4	10.7
CP06	18.4	22.4	14.1	17.1	15.1	17.1	13.2	17.1	19.1	19.2	12.7	19.7
CP07	12.8	12.9	14.0	18.8	11.3	15.8	9.7	9.6	12.4	10.1	9.0	14.7
CP08	17.1	17.3	14.4	15.8	14.2	13.3	12.9	12.9	18.1	14.7	15.6	14.0
CP09	12.7	13.6	12.8	13.4	12.1	13.4	11.1	12.8	14.9	11.5	11.0	16.0
CP10	14.6	14.6	15.0	15.5	14.3	13.9	12.2	17.1	15.1	16.0	11.7	16.5
EF	29.0	28.6	30.8	26.7	30.5	31.5	31.2	37.3	33.4	30.1	33.1	28.8
GR1			41.5	49.5	26.5					53.5		
GR2	44.7	32.3	33.0	40.4	39.2	28.0	29.0	32.2	40.6	39.7	33.7	37.3
HI1	26.8	24.8	29.9	25.6	26.7	35.5	34.4	33.3	23.5	24.0	22.8	20.5
HI2	27.8	25.1	30.3	26.7	22.8	31.5	30.0	34.5	27.8	26.8	29.8	28.3
I1	12.8	14.1	11.0	13.3						18.5	19.2	8.4
I2	17.9	20.0	19.9	17.9	16.0	13.3	27.6	26.3	17.8	22.2	18.7	17.2
I3	18.4	15.6	19.8	18.4	15.3	13.6	16.7	19.2	20.9	15.3	13.6	13.8
I4	15.3	17.4	17.1	17.7	19.4	17.9	15.8	23.9	25.7	22.0	19.6	15.1
I5	20.3	21.0	21.5	18.7	16.0	18.4	18.1	25.3	28.8	22.0	17.2	14.2
I6	17.5	19.3	20.7	19.6	20.8	20.5	26.6	28.4	22.2	22.6	20.4	18.3
I7	21.0	21.6	24.9	23.7	20.6	23.6	28.0	28.9	28.0	22.2	22.2	21.5
I8	26.5	22.9	28.3	28.0	22.5	29.5	34.1	33.8	33.1	26.5	27.8	26.3
I9	29.6	27.2	28.5	28.9	32.4	35.2	36.8	34.7	30.2	29.5	23.1	27.7
I10	22.2	26.3	29.1	31.7	32.6	33.7	35.3	34.0	35.0	29.7	26.9	25.6

(continued)

Table 6-8
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
I11	26.9	28.8	27.4	33.6	37.5	34.3	37.4	37.1	37.3	34.9	31.8	33.0
I12	30.6	33.7	30.0	35.4	34.0	41.2	33.8	33.1	37.5	36.9	37.5	38.1
I13	32.2	33.9	34.2	38.7	38.3	38.4	38.5	44.2	43.3	36.0	38.6	36.8
I14	32.2	36.5	41.1	30.7	38.7	42.0	37.5	38.0	41.6	42.8	38.3	40.1
I15	33.9	38.1	33.6	35.2	33.1	35.8	34.1	40.9	38.0	39.9	39.4	36.0
I16	40.7	32.2	31.5	38.2	38.8	33.2	40.8	41.6	38.1	40.2	46.2	36.1
I17	31.7	36.8	35.9	35.9	35.1	31.4	34.1	34.3	38.0	37.8	38.0	40.1
I18	37.0	34.3	35.9	36.9	39.2	35.3	44.0	46.6	45.1	41.8	41.3	38.4
IH1	28.2	28.2	30.9	29.1	26.3	23.8	25.5	32.7	30.0	27.7	24.0	27.6
IH2								35.1				
IH3		28.3	20.9	24.6		21.3	26.3	35.0		20.9	29.0	
IH4	37.2	20.3		27.2	31.9	20.0	25.5	37.7		25.0		
IH5	28.3	27.6	28.2	27.5	27.1	22.8	24.9	33.1	27.8	27.3	27.1	25.8
IH6	26.6	28.8	28.4	26.2	27.6	28.9	26.7	32.7	31.2	30.6	27.7	27.7
IH7	28.6	24.5	27.7	26.3	27.9	26.9	26.1	34.3	27.5	23.9	19.2	22.7
INL		33.4	28.6		22.3	28.2	34.3	34.0	29.7	28.0	31.8	26.3
LAC	23.7	21.3	24.9	25.4	25.4	28.3	30.7	31.1	22.0	26.3	21.7	24.9
LB	23.0	20.7	22.0	20.7	17.3	19.4	21.0	27.3	22.2	21.2	21.3	23.9
LQ1	29.0	27.7	28.1	28.7	29.1	28.5	30.0	32.1	31.8	30.3	27.4	28.1
LQ2	27.6	31.0	29.1	28.1	30.0	26.5	28.1	30.3	34.4	31.5	29.4	29.4
LS1	24.7	33.1	32.7	38.1	32.5	42.6	31.4	55.9	35.3	36.6	54.0	38.9
LS2	36.9	38.1	41.9	36.5	34.6	36.4	23.8	42.2	30.2	37.8	37.3	38.9
M1					15.3	7.2			22.0	19.5	12.9	12.5
M2	23.5	13.2	7.3	14.4	12.8	17.2	11.5	14.5	20.2	17.3	18.2	12.8
MB1	16.8	17.4	16.4	17.0	17.1	15.5	18.9	23.4	23.6	17.5	19.2	15.7
MB2	16.1	17.5	14.4	18.8	20.0	18.2	25.7	26.7	24.2	20.8	20.5	17.1
NB1	21.4	21.7	22.4	27.5	25.1	20.8	28.9	32.5	25.5	25.5	19.0	28.1

(continued)

Table 6-8
(continued)

Seg ID	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NB2	26.4	23.4	26.5	31.4	23.6	17.1	20.9	24.3	25.2	24.9	20.1	25.5
NB3	22.3	31.4	26.6	25.9	29.9	23.6	20.1	25.0	27.0	22.0	28.8	
NB4	25.6	25.1	26.1	25.2	31.4	19.1	28.9	23.9	20.8	25.9	26.0	26.1
NB5	24.7	28.2	26.0	28.2	28.5	18.7	26.7	22.4	18.5	25.3	24.1	27.0
NB6	24.5	24.9	26.1	26.6	25.7	20.6	22.4	18.3	26.8	20.8	23.5	23.9
NB7	24.6	25.0	26.9	25.1	25.1	22.5	22.5	27.7	28.4	27.2	25.1	28.5
NB8	25.8	26.7	26.1	28.7	24.8	21.9	28.9	28.5	29.9	25.2	27.4	29.4
NB9	26.6	27.4	26.4	27.0	23.3	17.1	25.4	25.6	28.5	30.8	26.9	28.4
ND2	23.0				20.8		6.5	16.5	22.0	23.0	15.4	
ND4	23.8	20.7	21.1	21.1	15.4	15.0	17.6	23.9	23.2	22.0	25.8	21.6
NR1	0.8	1.8	0.7	0.9	0.7	0.4	2.7	0.9	0.4	0.4	0.3	0.5
NR3	2.9		5.9	6.9	20.2	0.8	0.9	1.0		5.6	3.1	
NR4	7.2	13.3	12.4	16.7	12.2	9.6	12.9	9.6	9.4	8.6	9.5	8.7
NR5	10.4	17.8	22.2	18.9	22.3	5.6	4.7	0.8	3.7	4.9	6.4	7.4
OS1	6.8	5.1	10.8	6.9	3.8	1.2	6.0	1.5	2.3	4.3	2.2	4.3
OS3	19.9	19.2	24.1	35.9	25.1	6.0	26.4	24.8	23.0	18.1	24.4	16.8
OS4	28.5	30.3	31.0	31.3	22.5	33.2	30.2	30.5	29.4	42.8	37.2	33.8
OS5	33.7		22.5	31.7			44.3	45.5		36.3	39.7	33.9
OS6	23.6	26.1	23.3	30.9	33.6	26.4	31.8	37.0	35.6	34.1	27.3	36.9
OS7	28.6	27.9	28.9	30.9	27.1	28.7	34.4	32.7	31.9	30.9	29.2	30.0
PB1	10.9	16.1	10.2	14.2	13.9	15.5	6.2	16.9	9.3	12.0	10.4	12.0
PB2	11.8	11.3	15.3	16.9	15.1	13.2	11.8	17.8	13.5	15.6	14.0	17.1
RB1	21.9	21.1	19.5	25.4	19.4	19.6	19.5	32.7	25.2	24.7	21.4	24.0
RB2	21.8	18.8	24.8	27.5	21.8	19.6	20.4	33.0	31.3	28.6	26.5	
RB3	23.9	24.9	23.8	25.9	25.1	24.0	26.9	31.5	25.0	24.7	23.8	25.2
RB4	25.5	23.7	23.7	26.1	24.9	22.2	25.1	29.7	29.0	27.3	26.6	27.3
RB5	25.4	27.0	24.6	28.2	25.8	28.3	28.1	33.0	29.5	27.8	27.3	28.4

(continued)

Table 6-8
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
RB6	24.5	23.6	24.7	24.0	29.0	26.7	30.4	32.4	30.3	24.0	23.4	22.3
RB7	29.4	27.0	25.9	28.7	26.5	26.3	30.4	30.7	32.2	30.3	29.6	30.1
RB8	22.8	25.8	26.5	25.3	25.6	25.5	28.6	32.6	25.6	25.0	23.0	25.5
RB9	29.2	28.8	28.8	29.6	27.9	28.4	28.9	26.6	27.7	29.5	28.0	31.0
SC1	11.6	12.1	9.4	14.3	9.2	10.4	9.2	11.8	14.7	10.5	11.0	5.0
SC2	13.0	11.6	14.4	15.0	13.8	9.7	9.1	12.9	16.9	14.0	11.9	13.6
SC3	13.3	14.8	15.5	15.1	13.3	15.6	14.2	19.3	16.9	16.6	14.5	12.3
UL01	32.0	28.8	33.5	32.7	31.1	34.3	43.9	40.0	34.3	36.4	32.9	30.2
UL02	29.6	29.2	30.2	32.1	32.6	30.9	35.4	38.7	36.2	33.9	33.6	32.5
UL03	32.2	30.6	32.6	34.8	37.1	37.3	39.0	42.7	39.0	36.0	34.6	33.0
UL04	29.6	31.4	30.9	31.8	31.3	40.3	33.6	29.3	35.3	35.6	32.4	42.4
UL05	32.5	28.6		34.9	34.3	33.2	35.8	41.7	38.6	35.9	35.3	33.9
UL06	31.8	31.9	32.4	37.9	37.6	38.0	41.6	42.5	41.1	35.9	37.1	34.7
UL07	30.1	31.4	35.1	33.9	38.5	41.2	37.2	43.6	42.9	35.0	36.0	31.8
UL08	34.1	32.4	29.3	35.4	34.7	38.7	35.2	37.9	44.4	38.6	35.6	38.7
UL09	33.8		35.1	35.9	34.7	32.5	39.5	40.2	40.4	39.9	33.3	33.8
UL10	33.4	32.8	36.5	37.2	41.6	37.8	36.6	47.9	42.0	38.9	40.2	38.3
UL11			30.7	39.0	34.8	37.2	34.2	35.6	44.9	32.9		33.0
GMI1	33.0				27.5	33.9	34.5	36.0	33.6	33.5	30.3	
GMI2	33.5	31.5	33.3	31.7	29.0	32.8	35.9	36.4	30.4	31.7	31.0	33.5
GMI3	31.3	31.5	33.0	30.5	28.8	34.6	36.0	35.6	34.8	32.8	32.3	34.3
GMI4	29.0	31.0	31.0	28.1	27.7	33.0	37.3	35.0	33.2	32.4	30.1	31.8
GMI5	31.2	28.6	30.4	34.0	29.1	25.8	35.9	35.9	34.8	32.5	31.2	35.0
GMI6	28.5	28.9	28.8	25.7	25.5	31.6	34.8	33.0	31.1	30.2	31.2	25.8
GMI7	29.4	30.9	31.2	30.1	30.1	30.9	35.6	35.4	32.3	31.8	31.3	32.7
GMI8	28.4	31.5	27.1	31.8	26.5	30.0	34.9	35.7	32.0	31.8	30.8	30.7
GMI9	30.5	34.5	33.3	32.0	25.1	27.0	36.0	33.8	33.7	31.3	29.6	34.4

(continued)

Table 6-8
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
GMO4		29.0								33.0	32.0	
GMO5	29.3	30.9	27.3					38.3	30.5	30.3	32.5	32.7
GMO6		28.7	28.5	25.5		30.2			31.7	30.3	31.5	31.0
GMO7	28.0	30.4	29.1	30.4	33.0		38.0	34.5	35.0	30.1	31.5	32.9
Aransas Bay	22.1	23.1	24.7	23.0	23.9	23.1	23.8	29.0	28.3	26.6	25.2	23.9
Copano Bay	15.5	15.5	14.6	15.5	13.7	13.7	11.8	14.6	15.4	14.6	12.3	15.3
St Charles	13.2	13.2	14.9	15.1	13.6	12.6	11.7	16.1	16.9	15.3	13.2	12.9
Mesquite	16.4	18.2	17.0	17.9	17.1	18.4	20.7	25.4	24.8	18.6	19.3	16.3
Redfish	25.3	24.9	25.4	26.9	25.8	25.1	27.3	31.2	28.8	27.2	26.0	27.1
Corpus Christi	28.1	28.7	29.5	30.0	29.4	29.6	29.5	31.2	26.8	27.1	26.7	28.2
CCSC (bay)	29.0	29.1	28.4	29.4	29.0	28.0	29.0	30.7	28.0	30.4	28.2	27.0
Inner Harbor	29.8	26.3	27.2	26.8	28.2	23.9	25.9	34.4	29.1	25.9	25.4	25.9
Nueces Bay	25.0	27.0	26.3	27.9	27.6	20.1	25.1	24.8	24.3	24.6	25.3	27.0
Aransas Pass	25.9	26.8	28.0	26.6	25.9	30.4	33.2	33.2	25.5	26.8	25.0	24.8
Causeway N	29.0	27.9	28.7	29.4	30.8	34.6	34.0	33.9	30.8	30.2	28.5	29.6
Causeway S	28.3	28.9	30.9	32.1	31.9	34.8	37.0	35.5	35.2	33.9	31.4	32.7
Laguna (King)	32.0	32.6	33.2	35.6	36.5	37.5	37.0	40.4	40.8	37.2	36.5	35.5
Laguna (Baffin)	36.4	34.5	34.5	37.0	37.7	33.3	39.6	40.8	40.4	39.9	41.8	38.2
Baffin Bay	39.5	35.3	37.2	37.6	37.2	33.1	31.7	38.5	41.5	39.4	38.4	37.2
GOM inlet	29.3	29.7	29.2	29.1	29.4	29.6	36.1	35.4	32.6	30.8	31.5	31.7

Table 6-9
Monthly average values for period-of-record by hydrographic segment and principal bay
Water quality parameter WQTEMP, upper 1 metre

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
A1	14.3	14.4	18.1	22.3	25.4	28.9	29.4	29.2	28.5	23.7	18.5	14.9
A2	12.8	14.0	19.1	21.6	26.5	28.9	29.6	29.2	28.3	23.5	18.7	14.1
A3	14.2	14.4	18.4	22.4	25.9	28.7	29.6	29.2	28.1	24.1	18.2	16.1
A4	13.2	14.4	17.3	22.3	25.8	28.9	29.7	29.7	27.3	23.7	18.5	14.7
A5	14.3	15.6	19.8	22.3	27.0	27.9	30.0	30.1	28.3	23.8	18.1	16.0
A6	13.6	15.9	18.6	23.0	27.2	28.3	28.9	30.9	28.4	24.5	19.2	17.2
A8	13.2	14.3	19.3	23.7	26.8	29.1	28.7	29.9	27.7	23.9	18.0	15.7
A9	9.6	18.7	18.2	23.1	26.6	29.5	30.4	27.9	28.2	24.0	20.0	13.5
A10	13.6	15.1	18.8	22.3	26.8	29.3	29.1	29.9	27.8	24.1	18.4	15.5
A11	11.3	15.5	19.1	21.7	26.4	28.4	29.6	30.0	28.7	24.2	19.8	15.8
A12	13.3	13.3	18.4	22.5	25.9	29.2	28.9	29.1	28.7	24.3	19.7	15.1
A13	15.9	15.2	18.1	24.3	27.3	29.3	30.1	30.7	28.0	24.8	18.7	15.1
AL1	15.7	18.0	21.2	25.7	28.6	29.6	30.6	29.9	29.3	27.2	21.0	15.9
AL2	16.3	15.5	20.5	25.8	27.3	29.6	29.5	29.4	28.8	25.9	21.9	19.3
AR1	15.3	16.1	22.8	23.4	26.6	28.4	30.3	29.5	26.7	22.8	18.7	12.5
AYB		14.2	19.0	21.1	25.5	27.5	28.9	29.4	27.7	22.3	16.5	15.7
BF1	13.4	17.8	19.2	24.0	26.2	29.1	29.9	29.8	28.2	24.5	21.2	17.1
BF2	12.8	17.4	19.9	23.3	26.4	29.5	29.1	30.3	28.6	25.2	20.8	18.0
BF3	12.8	17.4	20.6	23.5	26.7	29.6	30.0	29.8	28.2	24.1	21.5	16.0
C01	13.7	15.6	18.9	23.1	25.4	28.3	30.0	29.5	27.2	24.9	20.5	16.0
C02	12.7	16.0	18.1	23.0	25.3	28.6	29.9	29.5	27.2	24.5	20.3	15.6
C03	12.7	15.8	19.6	23.0	25.4	28.2	29.8	30.0	27.4	24.6	19.6	16.0
C04	14.4	15.0	20.5	22.7	26.3	28.8	30.2	30.3	28.3	25.2	19.6	16.2
C05	15.3	13.7	21.2	21.2	25.4	28.6	29.8	29.9	28.5	24.3	20.3	15.1
C06	16.1	13.5	19.4	21.9	25.3	28.8	29.3	30.6	27.9	24.4	19.1	16.5
C07	11.8	15.1	19.5	21.2	25.4	28.2	29.5	29.6	27.7	24.8	19.9	15.5
C08	12.6	14.8	19.1	23.0	27.2	29.4	30.2	30.2	29.1	25.0	21.1	15.2

(continued)

Table 6-9
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
C09	14.1	15.3	19.4	23.3	26.3	29.5	30.4	30.3	28.6	25.6	20.4	16.8
C10	13.1	14.3	18.7	22.4	25.4	27.9	29.5	29.1	28.1	24.0	19.6	15.0
C11	13.0	14.0	19.8	22.3	25.4	28.9	29.3	29.1	27.7	24.5	20.2	14.7
C12	13.1	14.6	18.9	23.0	26.0	28.6	29.8	30.4	28.7	25.2	20.2	15.8
C13	13.5	11.3	19.9	24.5	25.4	30.1		29.5	28.1	25.2	18.9	12.9
C14	14.3	14.9	18.6	22.4	26.1	28.8	29.7	30.5	27.6	24.7	20.1	16.2
C15	14.0	15.4	19.1	23.0	25.9	28.5	29.5	29.9	27.8	24.7	19.0	15.9
C16						27.0			25.5	24.8	15.5	
C17	14.2	15.0	20.2	22.6	26.5	28.6	30.0	30.2	27.9	24.9	20.7	17.2
C18	12.2	15.8	18.5	24.2	27.7	28.5	30.3	31.4	29.2	25.0	20.4	16.3
C19	14.3	15.7	18.1	24.9	25.5	30.8	29.8	30.0	27.4	24.0	20.9	15.4
C20	13.8	15.3	18.6	21.8	25.1	28.0	30.2	29.8	27.4	25.0	18.9	17.4
C21	13.4	15.3	19.6	23.3	26.1	29.0	29.9	30.2	27.7	24.0	20.0	15.9
C22	8.5	13.8	20.9	20.3	25.9	27.4	29.4	29.3	27.6	24.4	18.7	13.5
C23	15.3	14.1	19.6	22.3	26.3	28.3		29.9	28.2	25.2	18.3	
C24	14.8	17.2	19.5	24.1	27.2	29.5	30.2	30.0	27.5	24.8	19.4	17.3
C25		16.2	20.3	23.3	25.9	29.7		30.5	27.5	26.0	20.3	14.8
CB	16.4	15.8	18.8	21.8	25.2	28.2	29.5	29.3	28.0	24.4	18.8	15.5
CBH				25.3	25.6	29.4			30.5	27.4		
CBY1			16.9				29.5			20.7		15.0
CBY2	15.0	12.9	14.2	18.8	26.2	28.8	29.6	30.6	30.4	24.5	21.9	19.1
CCC1	14.1	14.3	17.9	21.8	25.1	28.7	28.7	28.5	27.7	25.1	20.6	17.8
CCC2	11.8	14.9	18.2	19.5	25.0	29.1	29.2	29.2	28.7	24.0	17.6	15.0
CCC3	13.4	15.3	18.3	23.0	26.0	28.8	29.6	29.8	27.8	25.5	20.2	17.2
CCC4	13.3	16.1	18.3	21.6	24.4	28.8	30.0	31.9	27.7	25.1	19.4	16.3
CCC5	10.7	12.4	19.0	18.8	25.5	28.2	29.0	29.8	28.0	24.3	19.5	14.5
CCC6	12.4	14.4	18.3	22.7	25.1	28.3	29.2	29.4	28.3	24.2	19.5	14.7
CCC7	12.0	12.7	18.2	19.8	25.5	28.3	29.5	30.0	28.4	24.5	19.8	17.6

(continued)

Table 6-9
(continued)

Seg ID	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CCC8	13.6	15.4	19.3	23.2	25.2	28.7	29.9	29.4	27.8	24.9	20.2	17.5
CP01	17.9			23.7	28.0	29.6			29.0	26.0	19.2	12.0
CP02	14.1	15.9	18.0	22.9	25.9	28.6	30.0	29.6	28.0	24.8	19.0	14.8
CP03	14.2	15.8	18.3	23.1	26.9	28.9	29.3	30.6	27.6	23.5	19.4	14.3
CP04	14.8	15.1	18.4	23.3	25.8	29.0	30.0	29.9	29.0	23.7	18.8	15.7
CP05	13.7	15.9	18.1	22.2	25.7	28.5	29.4	29.1	28.2	23.3	19.8	13.5
CP06	15.0	14.2	17.7	23.8	27.4	28.4	30.0	29.0	28.7	21.6	19.9	13.7
CP07	13.7	14.7	19.7	21.8	25.2	28.7	29.5	29.0	29.4	24.1	19.3	13.6
CP08	14.8	15.2	18.7	23.1	26.1	28.1	30.0	29.3	27.4	24.2	21.0	16.2
CP09	14.1	15.6	18.9	22.0	25.8	28.6	28.9	29.0	28.3	23.7	19.2	13.1
CP10	14.3	14.7	18.4	22.6	26.5	28.7	29.7	29.9	28.5	23.9	19.6	14.8
EF	12.7	15.2	19.9	24.4	26.7	30.7	29.3	31.4	30.0	24.1	21.4	15.5
GR1			26.5	29.5	27.9					29.4		
GR2	16.2	19.5	18.5	26.2	27.8	29.9	30.0	31.4	29.0	26.1	20.6	20.7
HI1	14.5	15.4	17.7	23.5	24.8	27.4	29.3	29.7	27.9	25.4	17.9	14.3
HI2	15.9	15.5	18.1	23.0	25.9	29.8	29.4	31.4	28.1	25.2	21.7	14.8
I1				23.7								
I2	12.2	13.1	20.2	23.9	26.4	28.8	29.7	29.4	28.5	24.4	20.7	15.6
I3	13.1	15.0	20.1	22.1	26.6	28.3	29.0	28.7	29.0	25.3	20.6	13.3
I4	13.4	14.1	17.9	23.3	26.0	28.1	29.5	29.5	28.1	23.8	18.2	15.0
I5	14.8	13.3	14.3	22.3	26.6	28.8	29.5	28.4	29.4	22.9	20.9	13.7
I6	12.9	14.6	18.1	23.4	25.0	28.7	29.0	30.2	27.7	24.0	17.8	15.9
I7	13.8	13.8	17.9	22.8	26.3	28.5	29.3	29.5	29.1	23.9	20.4	16.1
I8	13.5	14.0	16.8	20.8	26.1	28.4	29.4	28.9	29.2	25.2	19.6	15.9
I9	14.1	14.9	19.1	23.0	26.2	29.6	29.3	29.5	26.8	24.5	18.4	17.3
I10	14.2	14.9	19.8	24.1	25.5	29.2	30.6	30.5	29.0	25.4	21.2	13.9
I11	18.2	16.0	21.1	24.1	26.8	28.8	30.7	30.9	29.5	24.6	18.1	16.0
I12	13.5	17.6	20.9	23.5	25.8	30.4	29.3	29.9	28.7	25.1	21.7	20.4

(continued)

Table 6-9
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
I13	13.0	17.1	19.4	22.6	26.6	29.6	30.3	30.3	29.1	24.7	20.7	14.6
I14	12.8	19.4	17.5	25.0	27.3	30.1	31.1	31.2	29.4	26.6	21.6	16.8
I15	12.3	17.1	20.3	23.6	27.2	29.3	29.9	29.8	29.3	24.8	21.1	16.3
I16	11.7	18.6	22.8	22.7	28.3	31.1	30.8	32.7	28.2	24.2	21.0	12.8
I17	12.7	18.1	21.1	23.4	26.2	29.8	29.9	29.8	28.7	24.4	21.5	16.4
I18	13.2	15.9	18.6	24.2	26.3	29.6	30.0	29.9	29.7	23.7	20.9	14.6
IH1	14.0	15.5	19.4	22.3	26.1	29.2	29.6	29.9	28.6	25.6	22.9	15.8
IH2								28.8				
IH3		12.2	26.5	22.0		28.5	30.0	28.7		26.2	20.2	
IH4	9.7				26.0	30.7	29.7	28.4		29.7		
IH5	13.3	15.8	20.8	23.6	26.3	29.5	29.9	29.7	28.5	25.5	21.9	16.3
IH6	14.2	15.7	17.3	23.9	25.0	28.6	29.9	29.7	28.8	25.5	21.8	18.2
IH7	13.7	14.3	20.0	23.6	26.2	28.6	29.9	29.3	28.5	25.5	21.0	17.2
INL		15.5	16.5		24.3	29.5	30.1	30.0	29.2	23.5	22.2	15.2
LAC	13.3	13.3	16.7	20.6	25.7	27.8	30.1	29.9	27.8	24.4	20.6	16.6
LB	14.4	16.1	19.4	23.5	26.4	27.3	29.4	29.6	29.1	23.7	18.5	12.2
LQ1	13.7	15.2	18.9	23.6	26.5	29.1	29.9	30.4	28.7	24.4	20.2	16.5
LQ2	14.5	15.3	19.3	24.0	25.7	28.8	28.9	30.5	28.0	24.9	20.1	15.4
LS1	12.3	20.0	21.3	25.1	26.5	28.2	29.9	29.3	28.2	24.2	17.8	16.3
LS2	14.6	17.3	21.8	24.7	27.4	30.3	29.3	30.1	30.0	24.2	19.8	18.1
M1					27.8	30.2			29.2	26.5	23.6	14.2
M2	14.6	17.0	19.4	19.6	26.8	29.4	29.4	31.5	28.8	23.5	20.1	12.8
MB1	14.1	14.5	16.9	22.0	25.9	28.8	29.6	29.1	27.8	22.8	19.3	14.4
MB2	12.7	14.7	16.5	22.6	25.6	28.3	29.4	29.6	27.1	22.7	19.1	14.8
NB1	13.4	16.6	20.9	21.1	25.9	28.8	29.1	29.1	27.4	22.8	21.8	16.9
NB2	13.1	16.6	20.7	23.4	26.0	29.2	27.6	29.1	28.4	24.1	20.2	16.1
NB3	11.4	16.5	16.9	21.6	25.9	29.4	29.4	28.7	27.2	23.8	19.5	
NB4	12.6	15.7	18.1	22.9	26.2	29.5	28.5	29.1	26.3	23.1	19.3	19.2

(continued)

Table 6-9
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
NB5	14.0	15.6	19.6	20.7	25.8	28.9	28.9	29.1	27.7	23.6	18.8	18.2
NB6	13.7	15.3	21.5	22.9	26.1	29.1	32.0	29.3	29.4	24.9	20.1	15.2
NB7	13.9	16.7	20.4	23.2	26.1	29.1	31.1	29.1	29.2	24.8	19.7	16.4
NB8	14.1	15.9	20.1	23.1	26.9	29.1	29.3	30.1	28.3	25.0	20.4	16.5
NB9	13.2	16.1	20.6	22.0	26.2	29.1	28.7	29.6	29.1	24.9	19.5	14.7
ND2	17.0				25.8		29.7	28.6	21.8	25.3	19.8	
ND4	17.8	17.1	19.1	23.6	26.6	30.1	28.7	28.5	26.5	24.3	15.7	15.4
NR1	14.3	16.1	21.5	24.9	26.8	30.6	31.8	30.4	30.3	25.4	20.6	17.1
NR3	21.7		22.7	22.7	25.4	29.3	31.4	28.2		24.3	20.5	
NR4	15.0	17.2	21.4	23.4	27.2	29.8	29.5	29.7	28.3	25.8	20.0	15.5
NR5	17.4	14.8	25.4	22.4	26.6	28.8	30.3	28.5	27.9	23.3	18.9	12.5
OS1	14.7	16.5	19.9	24.3	28.6	28.5	29.8	30.6	29.5	24.8	20.1	17.0
OS3	13.9	14.7	22.9	27.2	28.7	32.4	29.8	29.3	29.6	26.7	18.8	17.6
OS4	12.3	19.4	22.5	25.3	29.0	32.7	32.2	29.4	30.5	26.1	20.8	15.5
OS5	17.6		23.2	27.9			35.9	29.0		27.5	18.9	17.3
OS6	10.6	18.5	22.4	24.5	27.9	30.4	30.4	30.4	28.1	25.7	18.2	16.9
OS7	14.7	15.5	22.0	24.4	27.5	29.7	31.0	29.9	28.9	26.2	20.9	16.5
PB1	13.5	17.2	21.3	23.5	27.0	28.4	29.3	28.8	27.6	24.4	18.9	18.0
PB2	15.8	15.0	21.1	24.7	26.8	29.0	29.9	28.9	28.4	25.1	18.5	16.6
RB1	16.0	15.0	18.0	24.9	26.2	29.5	30.0	31.5	30.5	23.5	21.0	17.1
RB2	17.0	12.3	20.8	27.6	27.5	30.2	29.4	30.0	28.3	23.7	21.8	
RB3	13.6	16.6	20.4	24.8	26.5	28.8	30.6	30.7	29.4	25.2	21.0	19.1
RB4	12.7	14.8	17.5	23.2	26.9	29.2	30.3	29.8	28.5	26.3	19.3	17.1
RB5	12.5	16.1	19.3	22.3	26.0	29.0	29.1	29.8	27.6	26.4	20.0	15.2
RB6	10.6	14.8	22.0	21.8	26.4	28.3	30.4	30.8	28.4	24.7	20.2	13.1
RB7	13.9	15.6	18.2	23.5	27.0	29.5	31.0	30.2	29.1	25.6	21.9	16.6
RB8	13.2	14.3	19.1	22.9	25.2	29.0	29.8	29.5	28.1	25.1	20.2	16.0
RB9	13.2	15.6	18.6	23.5	27.2	29.5	30.4	31.0	29.0	25.1	19.9	16.6

(continued)

Table 6-9
(continued)

Seg ID	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SC1	13.3	15.7	16.4	22.7	26.2	28.1	29.8	30.3	28.4	24.7	22.3	15.4
SC2	13.7	14.6	19.0	22.6	27.6	27.7	30.4	29.3	29.1	23.9	20.5	15.8
SC3	13.5	15.4	18.8	23.0	26.7	28.0	29.4	29.3	28.7	24.2	20.4	15.6
UL01	13.8	17.3	20.6	24.6	26.6	29.0	31.2	32.1	30.3	26.5	20.3	12.8
UL02	13.5	14.9	20.1	24.3	26.8	29.4	30.9	30.2	29.8	26.0	19.8	19.6
UL03	13.4	14.8	18.9	23.0	26.7	29.4	30.3	29.8	29.5	23.9	19.7	15.0
UL04	13.1	18.4	18.5	23.5	25.5	29.5	29.9	30.5	28.0	25.1	21.5	17.5
UL05	14.2	16.0		24.8	26.9	31.0	31.2	31.1	29.7	23.3	19.8	15.0
UL06	11.9	15.3	19.8	23.6	26.4	29.2	30.2	29.5	28.9	25.7	20.8	16.6
UL07	14.5	16.7	20.2	24.2	27.1	29.9	30.7	30.5	29.2	25.7	20.0	14.2
UL08	11.6	20.1	20.0	24.4	27.2	30.2	32.3	30.9	30.1	25.0	20.1	19.0
UL09	14.6		18.6	23.2	27.3	30.3	29.9	30.5	28.9	26.3	20.8	18.7
UL10	11.9	16.9	18.7	24.3	27.0	30.6	30.1	30.3	28.7	25.7	20.6	16.3
UL11			19.2	24.5	28.9	29.5	29.7	30.6	29.6	24.2		14.7
GMI1	20.2				24.4	28.6	27.3	30.2	26.9	23.4	19.8	
GMI2	19.7	13.7	19.4	22.3	24.7	28.0	28.9	29.1	26.5	24.2	20.8	18.3
GMI3	18.4	13.7	18.7	22.5	25.6	29.4	28.0	29.2	28.1	25.3	21.1	16.4
GMI4	13.3	14.8	18.0	24.0	25.6	29.4	29.7	30.1	29.2	25.9	20.2	17.8
GMI5	15.1	14.6	16.6	25.9	25.4	27.8	29.4	29.1	28.3	25.7	20.9	14.8
GMI6	13.5	14.1	17.8	21.3	24.7	27.6	29.1	29.5	28.2	26.1	22.1	16.8
GMI7	14.8	14.8	17.4	21.0	24.8	28.9	29.5	29.4	27.3	25.4	20.8	15.2
GMI8	14.3	14.6	16.6	24.7	27.7	29.3	29.9	30.5	27.7	24.0	18.8	15.9
GMI9	15.4	16.2	18.4	22.4	25.6	29.7	30.5	31.4	28.0	23.3	19.0	19.1
GMO4		15.4								24.1	18.3	
GMO5	15.6	14.6	18.9					28.6	28.6	23.5	20.7	13.5
GMO6		13.6	17.0	21.3		26.7			28.8	24.8	21.9	18.9
GMO7	15.3	12.6	15.2	19.0	22.3		33.9	26.3	29.8	24.9	23.0	19.0

(continued)

Table 6-9
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
Aransas Bay	12.7	15.9	19.1	22.8	26.5	29.3	29.7	29.8	28.4	24.3	19.6	15.2
Copano Bay	14.3	15.2	18.5	22.8	26.1	28.6	29.6	29.5	28.3	23.6	19.6	14.4
St Charles	13.6	15.0	18.9	22.8	27.1	27.8	29.9	29.3	28.9	24.1	20.4	15.7
Mesquite	14.4	14.8	17.8	21.9	25.5	28.2	29.3	29.4	27.6	23.1	18.4	15.1
Redfish	13.3	15.0	19.5	23.7	26.6	29.2	30.1	30.2	28.5	25.3	20.5	16.2
Corpus Christi	13.4	14.7	19.4	22.6	25.9	28.6	29.8	29.9	27.8	24.7	19.6	15.6
CCSC (bay)	12.3	14.2	18.4	21.2	25.3	28.5	29.5	30.2	28.1	24.7	19.7	16.0
Inner Harbor	13.0	14.7	20.8	23.1	25.9	29.2	29.8	29.2	28.6	26.3	21.6	16.9
Nueces Bay	13.0	16.1	19.1	22.3	26.2	29.2	28.7	29.2	27.6	23.9	19.6	17.5
Aransas Pass	14.0	14.6	17.2	22.0	25.0	28.3	29.5	29.5	28.2	24.6	20.3	16.0
Causeway N	14.4	16.1	19.6	23.5	26.4	29.6	29.8	30.0	27.3	25.1	19.4	16.5
Causeway S	13.7	16.4	19.8	24.1	26.1	29.3	30.7	30.8	29.2	25.7	20.7	15.9
Laguna (King)	13.5	17.0	19.5	23.9	27.0	29.9	30.4	30.4	29.3	25.0	20.4	16.4
Laguna (Baffin)	12.5	17.5	20.8	23.4	27.0	30.2	30.2	30.8	28.9	24.1	21.1	14.6
Baffin Bay	14.3	17.5	19.7	24.5	26.9	29.5	29.7	30.1	28.6	25.2	21.2	18.2
GOM inlet	14.9	14.0	17.2	21.7	24.3	27.7	30.5	28.6	28.5	25.0	21.5	16.3

Table 6-10
Monthly average values for period-of-record by hydrographic segment and principal bay
Water quality parameter WQPH

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
A1	8.08	8.07	8.15	8.20	8.29	8.03	8.30	8.06	8.15	7.95	8.17	8.22
A2	8.22	8.33	8.21	8.21	8.27	8.16	8.35	8.31	8.36	8.08	8.21	8.23
A3	8.12	8.32	8.18	8.03	8.23	8.24	8.31	8.23	8.29	8.12	8.22	8.24
A4	8.16	8.25	8.30	8.21	8.18	8.24	8.36	8.14	8.23	8.00	8.25	8.17
A5	8.13	8.15	8.13	8.12	8.25	8.21	8.25	8.14	8.20	8.10	8.20	8.18
A6	8.07	8.32	8.20	8.30	8.35	8.22	8.33	8.16	8.00	8.00	8.06	8.13
A8	8.10	8.30	8.27	8.20		8.14	8.33	8.00	8.00	7.90	8.13	8.17
A9			8.40			8.10					8.45	
A10	8.16	8.30	8.26	8.12	8.24	8.19	8.36	8.21	8.13	8.11	8.26	8.20
A11		8.25	8.25	8.10	8.20	8.08	8.43	8.30	8.13	8.20	8.00	8.20
A12	8.18	8.30	8.38	8.09	8.27	8.29	8.47	8.39	8.45	8.20	8.29	8.27
A13		8.37		8.30		8.50	8.24	8.20		8.23		8.20
AL2		8.10		8.40				7.95	8.40	7.90		
AR1	8.12	8.23	8.22	8.01	8.12	7.84	8.53	8.21	8.16	8.28	8.22	8.37
AYB		8.40	8.30	8.35	8.35	7.88	8.27	8.30	7.70	8.27	8.00	8.47
BF1	8.27	8.04	8.13	8.16	8.08	8.26	8.26	8.06	8.23	8.25	8.14	
BF2		8.22	8.27	8.47	8.23	8.34	8.53	8.60	8.50	8.15	8.30	8.35
BF3	8.31	8.07	8.12	8.06	8.12	8.29	8.32	8.19	8.28	8.32	8.16	
C01	8.17	8.12	8.27	8.15	8.22	8.36	8.18	8.29	8.36	7.96	8.05	9.75
C02	8.13	8.13	8.40	8.19	8.16	8.39	8.16	8.17	8.18	8.35	8.28	8.50
C03	8.04	8.31	8.23	8.08	8.25	8.35	8.16	8.25	8.22	8.23	8.20	8.04
C04	8.26		8.17	8.07	8.22	7.70	8.29	8.12	8.15	8.15	8.18	8.20
C05	8.16	8.21	8.27	8.16	8.11	8.18	8.27	8.31	8.18	8.19	8.31	8.69
C06	8.16	8.23	8.28	8.04	8.27	8.25	8.24	8.37	8.21	8.28	8.30	8.17
C07	7.90	8.40	8.27	8.19	8.23	8.35	8.25	8.34	8.31	8.39	8.18	9.83
C08		8.40		8.11	8.20	8.24	8.20			8.40	8.39	
C09	8.13	8.25	8.38	8.16	8.24	8.30	8.25	8.24	8.33	8.23	8.25	8.20

(continued)

Table 6-10
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
C10	7.96	8.38	8.40	8.19	8.30	8.35	8.28	8.37	8.27	8.27	8.33	8.30
C11	8.06	8.34	8.34	8.12	8.21	8.23	8.23	8.38	8.26	8.29	8.28	8.31
C12	8.14	8.28	8.28	8.18	8.24	8.26	8.22	8.22	8.36	8.26	8.29	8.19
C13									8.30			
C14	8.16	8.27	8.32	8.06	8.34	8.29	8.31	8.30	8.40	8.21	8.28	8.40
C15	8.21	8.07	8.14	8.07	8.12	8.18	8.18	8.18	8.16	8.26	8.04	8.41
C17	8.16	8.02	8.33	8.28	8.03	8.27	8.31	8.31	8.20	8.20	8.27	8.46
C18					8.30				8.08			8.53
C19					8.25	8.45	8.20	8.30	7.97		8.35	
C20	8.28	8.24	8.25	8.14	8.14	8.27	8.24	8.11	8.13	7.95	8.05	8.08
C21	7.80	8.46	8.23	8.32	8.28	8.38	8.32	8.62		8.34	8.32	8.33
C22			8.23	8.01	8.23		8.19			8.50	8.45	8.33
C24	8.13	8.20	8.52	7.81	8.41	8.10	8.34	8.24	8.68	8.37	8.32	9.40
C25		8.26	8.23	8.24	8.17	8.28	8.50	8.15	8.60	8.19	8.05	8.08
CB	8.20	8.36	8.15	8.14	8.21	8.19	8.39	8.47	8.41	8.10	8.16	8.33
CBH				8.23		8.43			8.50			
CCC1	8.14	8.24	8.33	8.22	8.20	8.16	8.18	8.19	8.07	8.23	8.24	8.13
CCC2	8.24		8.35		8.45	8.53	8.40	8.19				
CCC3	8.24	8.31	8.29	8.21	8.13	8.23	8.21	8.27	8.20	8.23	8.17	8.54
CCC4	8.20	8.05		8.30	8.20	8.03	8.24	7.97	8.28	8.17	8.23	8.30
CCC5	8.35		8.23	8.03	8.01	8.22	8.17				8.30	
CCC6	8.30	8.16	8.30	8.10	8.07	8.18	8.33	8.05	8.01	8.36	8.27	8.30
CCC7	8.13	7.95	8.27	8.12	8.06	8.10	8.24	8.30	8.09	8.18	8.17	8.69
CCC8	8.28	8.06	8.49	8.09	8.06	8.24	8.21	8.09	8.07	8.31	8.23	8.55
CP02	8.20	8.16	8.16	8.25	8.35	8.23	8.31	7.95	8.10	8.09	8.25	8.23
CP03	8.13	8.06	8.26	8.32	8.45	8.21	8.27	8.18	8.17	8.00	8.25	8.16
CP04	7.93	8.08	8.15	8.23	8.31	8.13	8.19	8.18	8.32	8.02	8.11	8.22
CP05	8.18	8.03	8.19	8.29	8.18	8.21	8.33	8.11	8.13	7.95	8.25	8.23

(continued)

Table 6-10
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
CP06	8.05	7.90	8.24	8.23	8.35	7.97	8.15	8.03		7.70	8.20	8.10
CP07	8.10	8.00	8.03	8.29	8.26	8.23	8.39	8.29	8.07	8.05	8.26	8.19
CP08	8.20	8.18	8.13	8.29	8.21	8.11	8.34	8.23	8.10	8.16	8.24	8.53
CP09	8.13	8.11	8.11	8.31	8.29	8.19	8.38	7.90	7.93	7.94	8.00	8.25
CP10	8.17	8.17	8.18	8.18	8.26	8.11	8.26	8.27	7.90	8.08	8.18	8.20
GR1								7.90				
GR2		8.05		8.50				8.43	8.28	8.10		
HI1				8.29	8.30	8.40			8.57	8.38		8.23
HI2		8.17							8.55			
I2		8.25	8.35	8.35	8.24	8.07	8.20	8.10	8.13	8.33	8.00	8.40
I3	8.18	8.42	8.23	8.28	8.32	8.17	8.45	8.49	8.50	8.18	8.30	8.30
I4	8.16	8.32	8.28	8.26	8.24	8.06	8.33	8.10	8.04	8.09	8.22	8.23
I5	8.18	8.28	8.35	8.13	8.17	8.19	8.37	8.36	8.40	8.15	8.26	8.20
I6	8.30	8.13	8.16	8.20	8.20	8.13	8.30	8.10	8.15	8.30	8.21	8.12
I7	8.12	8.19	8.25	8.03	8.25	8.15	8.30	8.28	8.02	8.06	8.18	8.06
I8		8.05	8.15	8.00	8.18	7.98	8.23	8.10	7.87	8.07	8.05	7.97
I9	8.21	8.27	8.26	8.27	8.30	8.28	8.59	8.25	8.54	8.34	8.27	8.27
I10	8.49	8.34	8.22	8.23	8.35	8.59	8.47	8.10	8.51	8.00	8.34	7.95
I11		8.23	8.05	8.12		8.25	8.60	8.30	8.44	8.15	7.97	7.90
I12	8.28	8.15	8.00	8.21	8.37	8.33	8.44	8.12	8.00	8.42	8.03	
I13		8.30		8.10	8.50	8.42	8.35	8.30	8.06	8.35	8.27	8.15
I15		8.20	8.23	8.26	8.25	8.20	8.30	8.11	8.50	8.21	8.00	8.00
I17	8.32	8.13	8.03	8.14	8.23	8.53	8.41	8.16	8.04	8.46	8.12	
IH1	8.31	8.03	8.36	7.95	8.00	8.04	8.09	7.97	7.75	8.12	8.02	8.24
IH2								7.77				9.50
IH3	8.10	7.70	8.26	7.36		8.05	7.89	7.79		7.91	7.90	9.33
IH4		7.90		8.00	8.40	8.90	7.95	7.86				9.50
IH5	8.32	8.07	8.27	7.98	8.03	8.02	8.14	8.02	7.69	8.21	8.12	8.46

(continued)

Table 6-10
(continued)

Seg ID	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
IH6	8.28	8.09	8.31	8.11	8.03	8.20	8.14	7.98	8.03	8.27	8.11	8.31
IH7	8.18	7.91	8.20	7.84	8.16	8.09	8.03	7.98	7.95	8.13	7.61	8.25
INL			8.35		8.45	8.50	8.30					
LAC	8.07	8.23	8.20	8.00	8.22	8.10	8.12	8.33	8.16	8.16	8.29	8.30
LB		7.60	7.85	7.20	8.10	7.68	8.17	7.00	7.40	7.10	7.40	7.53
LQ1	8.22	8.30	8.27	8.19	8.12	8.28	8.24	8.10	8.25	7.81	8.04	8.09
LQ2	8.17	8.20	8.20	8.11	8.13	8.26	8.17	8.09	8.15	8.37	8.20	7.90
LS1								8.30				
LS2		8.30		8.40				8.55	8.50	8.23		
M2		8.10	8.28	7.95		7.57				8.15	7.90	
MB1	8.32	8.46	8.21	8.14	8.26	8.25	8.09	8.18	8.22	8.24	8.03	8.34
MB2	8.15	8.33	8.31	8.25	8.25	8.17	8.14	8.21	8.06	8.02	8.06	8.32
NB2		7.97	8.13	8.10	8.22	8.24	7.93	8.60			8.35	
NB3			8.10	8.07	7.55	8.06	8.03	8.10		8.30		
NB4	8.03	8.13	8.10	8.10	7.90	8.13	8.35	8.15	7.90	8.24	8.30	9.00
NB5	7.93	8.00	8.07	7.94	8.13	8.33	8.36	8.15	8.07	8.26	8.05	8.63
NB6	7.74	7.94	8.17	7.91	8.09	8.26	8.11	8.32	8.05	8.19	8.16	8.77
NB7	8.04	7.97	8.23	8.05	8.04	7.75	8.04	8.05	8.13	8.28	8.11	8.20
NB8			8.20	8.35	7.98	8.17	7.48	7.42	7.60			
NB9			8.20		8.14	8.18	7.60	8.13	7.60			
ND2				7.40	7.45	7.20				7.95	7.85	7.20
ND4	8.36	8.40	7.92	8.04	8.08	8.12	8.14	8.27	8.27	8.45	8.44	8.26
NR1	8.70	7.76	7.51	7.97	8.22	7.91	7.65	8.10	8.18	7.43	7.79	
NR3	8.27		8.26	8.37	8.31	8.34	7.70	8.15		8.04	7.81	
NR4	8.34	8.48	8.28	8.00	8.14	8.21	8.30	8.45	8.37	8.27	8.41	8.17
NR5	8.45			8.38	8.23	8.48	7.66	8.23	7.96	8.19	8.26	8.28
OS1	7.85	8.18	7.75	8.18	7.73	7.87	8.46	7.83	8.14	8.04	8.03	7.79
OS3	8.58	8.65	8.58	8.60	8.33	8.43	8.42	8.30	7.79	8.96	8.70	8.80

(continued)

Table 6-10
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
OS6	8.20	8.17		8.12	7.93		8.43	8.12	7.70	8.29	8.08	8.23
OS7	8.27	8.07	8.11	8.11	7.89	8.20	8.35	7.96	8.01	8.64	8.21	8.34
PB1	8.17	8.11	8.13	8.03	8.26	8.13	8.30	8.33	8.03	8.37	8.18	8.24
RB1	8.03	8.13	8.45	7.30	8.55	8.49	8.38		8.30	8.28	8.44	
RB2			8.45		8.45	8.53	8.50					
RB3	8.14	8.18	8.26	8.38	8.33	8.36	8.44	8.19	8.14	8.40	8.21	8.29
RB4	8.10	8.26	8.44	8.36	8.44	8.44	8.50	8.40	8.32	8.34	8.40	
RB5	8.17	8.30	8.44		8.46	8.50	8.62	8.85	8.40	8.48	8.65	8.35
RB6		8.38					8.60			8.48	8.80	8.35
RB7		7.93	8.30		8.38	8.41			8.30		8.20	
RB8	8.22	8.24	8.22	8.19	8.21	8.29	8.29	8.12	8.08	8.30	8.19	8.18
RB9	8.30		8.20	8.17	8.12		8.28	8.35	8.19	8.20	8.20	
SC1	8.08	8.17	8.30	8.18	8.17	8.07	8.64	8.30	8.00	8.21	8.24	8.17
SC2	8.19	8.13	8.20	8.22	8.27	8.24	8.55	8.17	8.16	8.17	8.18	8.32
SC3	8.13	8.09	8.00	8.20	8.23	8.18	8.31	7.97	7.94	8.08	8.16	8.10
UL03			8.20	8.15	8.40	7.90	8.70	8.40	8.24	8.21	7.97	7.93
UL04	8.34	8.20	8.11	8.27	8.41	8.43	8.54	8.19	8.28	8.55	8.11	8.40
UL07									8.30	8.50	8.15	8.10
UL11			8.26	8.70		8.05	8.40	8.23	8.55	8.27		
GMI4	8.23	7.98	7.97	8.23	8.13	8.23	8.26	7.89	7.99	8.56	8.09	8.25
GMI6	8.20	8.29	8.25	8.18	8.32	8.11	8.20	8.12	8.19	8.20	8.22	8.20
GMO6		8.24	8.31	8.21	8.25	8.03			8.19	8.10	8.17	8.15

(continued)

Table 6-10
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
Aransas Bay	8.17	8.25	8.24	8.16	8.24	8.20	8.36	8.19	8.23	8.12	8.19	8.19
Copano Bay	8.12	8.08	8.16	8.26	8.30	8.15	8.29	8.13	8.09	8.00	8.19	8.23
St Charles	8.16	8.11	8.10	8.21	8.25	8.21	8.43	8.07	8.05	8.12	8.17	8.21
Mesquite	8.22	8.39	8.24	8.22	8.27	8.12	8.22	8.29	8.10	8.16	8.06	8.36
Redfish	8.19	8.21	8.33	8.27	8.34	8.42	8.46	8.38	8.24	8.37	8.38	8.29
Corpus Christi	8.10	8.27	8.28	8.14	8.22	8.27	8.24	8.30	8.21	8.25	8.26	8.53
CCSC (bay)	8.24	8.12	8.27	8.15	8.09	8.15	8.24	8.15	8.14	8.23	8.23	8.46
Inner Harbor	8.24	7.95	8.28	7.87	8.12	8.22	8.04	7.91	7.86	8.13	7.95	8.80
Nueces Bay	7.98	8.03	8.12	8.11	7.96	8.18	8.03	8.08	7.86	8.27	8.23	8.82
Aransas Pass	8.11	8.24	8.29	8.17	8.29	8.29	8.20	8.26	8.26	8.25	8.26	8.22
Causeway N	8.17	8.24	8.33	8.11	8.29	8.22	8.48	8.21	8.61	8.30	8.21	8.58
Causeway S	8.42	8.27	8.16	8.25	8.38	8.51	8.50	8.15	8.39	8.27	8.22	8.17
Laguna (King)	8.28	8.22	8.15	8.26	8.38	8.19	8.46	8.24	8.30	8.30	8.06	8.02
Laguna (Baffin)	8.32	8.13	8.03	8.14	8.23	8.53	8.41	8.16	8.04	8.46	8.12	
Baffin Bay	8.29	8.09	8.17	8.32	8.14	8.30	8.37	8.25	8.34	8.14	8.20	8.35
GOM inlet	8.20	8.26	8.28	8.19	8.29	8.07	8.20	8.12	8.19	8.15	8.20	8.17

Table 6-11
Monthly average values for period-of-record by hydrographic segment and principal bay
Water quality parameter WQDO, upper 1 metre

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
A1	9.7	9.1	9.2	8.6	8.4	7.4	8.1	7.2	7.5	8.2	9.5	8.5
A2	11.1	9.1	8.3	8.3	8.3	8.2	7.4	7.4	8.4	8.7	10.4	9.7
A3	11.1	9.2	8.9	8.2	8.4	8.2	8.1	7.8	8.1	8.3	9.6	9.8
A4	10.1	9.6	9.1	8.2	7.3	6.9	7.1	8.5	6.8	8.8	9.1	10.8
A5	10.7	9.6	9.1	8.6	7.9	6.7	7.8	8.1	7.8	9.1	10.7	9.2
A6	10.4	9.5	9.8	7.4	8.6	8.1	8.4	7.9	7.7	8.2	11.2	10.5
A8	8.8	9.7	9.1	8.3	10.6	9.0	11.7	4.5	8.6	9.8	10.4	8.1
A9	11.8	9.0	8.2	8.6	9.3	10.0	8.3	5.8	9.2	8.0	10.2	10.1
A10	10.4	9.7	8.9	8.6	7.7	7.3	7.7	6.9	6.6	8.3	9.8	9.8
A11	10.2	10.0	8.1	8.4	7.7	7.0	6.0	8.5	7.6	8.7	8.7	8.1
A12	9.4	9.7	8.9	8.4	8.6	7.6	7.9	7.0	7.2	9.2	9.0	10.6
A13	10.6	9.8	9.6	8.9	9.3	7.9	7.4	8.0	7.8	9.3	9.3	8.7
AL1	9.0	7.7	7.7	7.6	6.9	6.9	7.3	7.2	6.4	6.9	7.3	9.1
AL2	7.4	7.2	7.5	8.3	6.7	7.3	7.2	6.7	6.2	6.9	8.2	8.3
AR1	10.1	8.8	8.6	8.2	8.0	6.9	8.3	7.2	8.1	9.0	9.7	11.0
AYB		8.8	8.0	8.0	7.4	6.4	6.5	5.3	6.7	7.0	8.0	9.0
BF1	8.1	7.4	7.4	7.3	6.8	6.5	6.9	6.7	6.5	6.8	7.5	9.3
BF2	7.0	7.1	7.9	6.9	7.0	7.4	6.5	5.9	6.9	7.6	7.0	7.2
BF3	8.5	7.4	6.8	7.1	6.7	6.2	6.2	6.3	6.5	6.9	7.2	8.4
C01	9.2	8.6	8.6	8.1	7.8	7.7	7.3	7.5	7.9	9.7	9.0	8.3
C02	8.9	8.1	7.5	8.2	8.0	6.8	8.0	6.7	6.9	8.0	8.4	7.6
C03	9.2	8.9	8.0	8.5	7.1	7.8	7.8	7.3	7.0	8.5	8.3	8.3
C04	8.4	7.4	6.5	8.0	7.6	4.5	8.6	6.3	5.9	7.2	8.0	6.3
C05	11.1	8.8	7.5	7.7	7.3	6.2	7.6	6.4	6.5	7.3	8.5	8.6
C06	7.9	8.1	7.6	7.6	6.3	6.5	7.2	6.2	6.8	7.2	7.3	8.3
C07	9.2	8.9	8.1	8.1	7.2	8.1	7.2	6.7	7.3	7.8	8.2	9.1
C08		8.0	6.3	9.1	7.3		9.5	7.1	8.4	7.0	8.5	8.8

(continued)

Table 6-11
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
C09	9.9	9.1	8.1	8.1	7.6	7.8	7.6	7.9	7.8	7.6	8.1	8.8
C10	9.0	9.0	7.8	7.6	6.9	7.4	7.3	6.5	7.3	7.6	8.0	9.0
C11	9.7	9.1	7.9	7.8	7.2	6.6	6.9	7.0	7.0	7.8	8.3	9.1
C12	8.9	8.7	7.8	8.0	7.6	7.3	7.3	8.2	7.1	7.7	8.3	9.4
C13	9.0	8.5	10.2	7.7	6.4	8.5			7.5	7.7	9.4	
C14	8.9	9.3	8.0	8.2	7.4	7.3	7.0	6.8	7.8	8.0	7.9	8.6
C15	9.0	8.6	7.8	7.9	7.0	7.0	6.9	6.8	7.0	7.6	8.2	8.8
C16		8.3				5.0			4.7	8.6	8.7	
C17	9.6	9.0	8.5	8.1	7.4	6.7	7.7	7.8	7.0	8.0	8.4	9.1
C18		7.2	6.2	6.0			5.8		6.3		5.3	8.4
C19	13.4	7.9	11.0	8.8	7.6	7.9		8.2	8.5	9.2	7.0	
C20	8.2	8.7	7.7	8.2	7.5	8.0	7.2	7.6	7.4	8.2	8.9	8.9
C21	8.8	9.0	7.4	8.7	7.3	7.5	7.2	6.7	7.9	7.3	8.4	9.8
C22	11.4	8.5	7.0	8.8	7.0	6.2	8.4	5.9	5.8	6.9	8.1	8.9
C23	6.5	9.4	6.8	7.1	8.0	6.9		7.5	9.4	8.5	10.2	
C24	8.4	9.1	7.3	7.8	7.0	7.1	7.5	7.6	6.9	7.4	9.4	7.1
C25		8.3	7.6	7.6	7.7	6.3		6.9	7.8	7.4	8.2	9.1
CB	11.3	9.2	8.3	8.9	8.5	6.8	7.1	6.0	9.2	8.5	9.6	10.2
CBH				8.0	8.8				7.5	7.4		
CBY1			9.4				6.7			10.9		8.5
CBY2												
CCC1	8.7	9.2	7.7	7.8	7.4	6.9	6.6	6.8	7.2	8.1	8.0	8.4
CCC2	8.4		8.5	7.8	7.6	7.5	6.7		7.6	6.8	8.0	8.9
CCC3	9.0	8.7	7.7	8.2	7.8	7.9	6.9	7.3	7.6	8.2	8.4	8.1
CCC4	7.2	9.0	8.0	7.5	7.9	5.5	5.7	4.0	6.7	6.7	7.5	7.6
CCC5	8.8	8.3	7.3	9.5	6.5		7.2		6.8	6.6	7.9	8.2
CCC6	9.6	8.2	7.8	7.9	7.2	6.0	6.2	6.8	6.0	7.0	7.8	7.1
CCC7	9.5	11.1	7.5	8.6	7.6	6.5	7.4	6.9	6.4	8.0	8.5	9.2

(continued)

Table 6-11
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
CCC8	9.2	8.4	7.2	7.6	6.8	6.7	7.5	7.0	6.8	7.2	8.1	8.6
CP01	8.2			9.1	8.2	6.8			8.6	8.2	9.9	10.6
CP02	10.5	9.0	9.2	8.1	8.2	7.4	8.5	8.4	8.5	8.0	9.0	9.0
CP03	10.8	9.6	8.5	8.3	7.7	6.8	7.9	7.6	6.4	9.2	9.7	10.0
CP04	10.0	9.1	9.2	9.1	8.0	7.4	8.1	6.7	8.0	9.1	9.5	10.0
CP05	10.7	9.4	8.3	8.3	7.7	7.4	7.8	6.8	7.0	7.4	8.8	10.7
CP06	10.0		9.1	8.2	8.2	7.3	9.4	8.4	7.4	9.6	10.1	8.2
CP07	11.2	9.5	8.2	8.5	7.7	7.5	8.2	7.3	7.8	8.0	8.7	10.2
CP08	9.7	9.8	9.0	8.5	8.4	7.3	8.6	6.9	7.7	9.2	9.3	9.9
CP09	10.3	9.7	9.0	8.4	7.9	7.6	8.4	6.9	7.9	9.1	8.7	10.2
CP10	10.7	9.4	8.4	8.8	7.8	7.1	7.6	7.7	7.8	8.3	8.9	9.9
EF	9.6	8.9	7.8	9.6	7.5	7.6	8.7	7.2	8.7	9.7	6.7	10.3
GR1			8.3	5.5	11.2					5.0		
GR2	7.8	7.5	7.8	6.8	6.3	6.3	7.9	7.9	7.5	6.8	7.0	8.3
HI1	10.9	11.3	8.4	6.4	8.1	7.5		6.5	8.2	9.3	8.8	10.5
HI2	8.7	9.1	7.0	8.2	7.8	9.5	6.3	6.9	7.3	8.6	7.9	8.3
I2	9.1	8.1	8.3	8.1	8.3	7.4	6.7	5.5	7.3	8.3	8.1	8.6
I3	11.6	9.4	7.5	8.4	8.2	7.3	7.2	8.1	9.1	8.4	9.1	11.4
I4		8.8	8.7	8.4	8.2	8.4	7.3	6.7	7.3	7.4	9.1	8.4
I5	9.9	9.2	9.0	8.6	8.0	7.6	8.3	6.9		9.7	9.1	9.2
I6	9.9	9.0	9.0	7.7	8.1	6.8	7.3	6.8	6.9	8.1	9.1	8.9
I7	9.6	9.3	8.4	8.2	8.3	7.1	6.2	6.7	7.2	7.9	8.5	8.6
I8	10.8	9.6	9.1	8.9	8.9	7.0	6.9	5.9	7.1	7.8	7.5	7.3
I9	8.4	8.7	7.1	7.1	5.9	6.7	5.5	6.2	7.3	7.4	7.8	7.2
I10		8.7	8.7	8.1	6.7	6.9	6.7	7.2	8.0	7.4	9.3	10.5
I11	8.3	8.8	6.0	7.0	7.7	7.5	7.1	7.4	6.7	7.6	8.0	9.1
I12	9.3	8.2	8.8	7.9	7.8	7.4	6.7	6.1	8.1	7.6	7.0	8.3
I13	8.2	8.1	6.3	6.9	6.3	6.8	7.1	6.0	9.9	7.1	7.5	7.9

(continued)

Table 6-11
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
I14	7.3	8.2	5.1	7.8	6.0	7.0	7.7	9.0	6.2	6.3	6.6	6.3
I15	7.7	6.7	6.8	6.9	6.5	6.1	5.2	4.7	7.5	7.1	7.0	7.6
I16	5.0	6.3	6.2	6.4	6.0	6.6	6.5	7.8	8.5	7.6	5.9	7.0
I17	9.3	7.7	6.9	7.5	6.4	5.8	6.7	6.4	7.4	7.4	7.6	8.0
I18	7.5	7.0		8.1	6.6	6.0	5.5	7.0	6.8	7.0	6.6	6.2
IH1	10.5	8.1	8.3	7.5	6.1	5.9	8.1	6.5	5.2	6.0	7.6	9.5
IH2				7.0				5.5				
IH3		7.4	11.0	6.7		4.9	10.9	4.9		7.6	9.9	
IH4	8.4			6.2	7.4	8.0		6.3		6.5		
IH5	10.2	8.0	8.0	7.1	6.5	7.0	7.9	7.4	4.6	7.2	7.6	7.7
IH6	10.2	8.1	6.3	6.5	6.6	4.1	5.8	5.9	5.2	5.9	6.2	6.6
IH7	7.4	8.3	7.1	7.0	6.2	6.0	6.5	5.8	5.8	6.6	6.8	7.0
INL		9.1	9.1		7.6	7.1	7.4	6.3	7.4	6.8	8.9	8.5
LAC	9.8	9.3	8.5	8.0	6.9	6.8	7.1	6.2	6.4	8.4	9.5	9.3
LB	10.6	10.5	7.7	8.5	8.4	7.3	7.0	6.5	6.5	8.1	12.4	9.2
LQ1	8.7	9.1	7.5	8.0	7.7	7.5	6.8	7.0	7.7	8.3	8.4	9.1
LQ2	9.5	8.8	8.7	7.8	7.0	6.8	7.2	6.8	8.8	7.2	7.3	8.6
LS1			7.9	6.0	9.0		8.6	4.1		5.3		9.5
LS2	7.8	7.5	7.5	7.2	6.9	6.3	8.7	7.6	7.7	6.7	7.4	7.1
M1					8.2	6.5			7.4	7.0	9.5	8.1
M2		9.9	8.7	9.0	8.2	7.1	6.5	9.4	6.8	8.4	9.5	9.8
MB1	10.1	10.0	9.1	8.9	8.0	7.7	7.4	7.6	7.7	8.1	9.8	10.1
MB2	10.8	9.0	9.1	8.5	8.4	7.4	6.7	6.8	7.5	8.5	9.9	9.6
NB1	6.2	9.0	5.0	6.6	7.8	7.5	7.1	7.2	8.6	8.9	9.2	8.2
NB2	6.6	8.8	7.0	7.5	7.8	7.3		8.0	8.5	8.2	8.0	7.9
NB3	9.7	7.3	7.6	7.5	6.1	6.9	7.1	6.4	7.1	8.4	8.1	
NB4	8.9	9.1	7.4	8.1	7.4	7.2	6.4	7.3	6.9	8.2	8.5	8.3
NB5	8.9	8.8	7.6	8.5	7.0	7.1	6.7	6.9	7.2	8.1	8.7	8.9

(continued)

Table 6-11
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
NB6	8.5	8.6	7.5	7.7	6.3	7.2	6.5	7.0	6.5	8.1	8.5	9.1
NB7	9.2	8.6	7.2	8.1	6.8	7.6	6.2	7.0	6.6	8.0	8.3	8.4
NB8	8.3		7.0	7.1	7.4	6.9		7.0	7.7	8.0	7.9	7.6
NB9	9.9	8.2	6.7	7.7	7.2	7.2	7.5	8.4	8.9	8.3	9.9	9.0
ND2	9.0				8.4		8.7	7.5	6.8	8.3	7.8	
ND4	8.5	9.2	7.7	7.9	6.6	6.9	6.3	5.9	6.4	7.7	8.9	9.1
NR1	8.2	9.4	8.3	9.9	8.0	7.0	7.4	6.5	7.6	7.3	8.1	9.0
NR3	8.2		8.5	10.0	5.8	6.7	7.7	6.5		7.0	8.0	
NR4	11.5	11.3	10.9	8.8	7.7	8.0	8.6	9.0	8.4	9.0	10.3	10.4
NR5	9.4	8.9	8.3	8.8	5.4	6.5	8.0	7.1	6.5	9.3	10.2	10.0
OS1	9.8	10.7	11.0	11.0	7.9	8.3	12.6	9.5	11.3	9.1	8.5	5.0
OS3	9.8	9.2	6.3	7.4	7.4	8.4	6.9	7.5	7.0	9.2	8.0	10.1
OS4	10.7	8.5	8.8	6.1	9.6	6.7	6.5	6.8	8.6	7.2	8.8	12.1
OS5	10.5		8.1	8.7			6.6	10.5		8.6	8.5	8.7
OS6	10.4	8.2	11.4	7.1	7.2	7.0	7.2	6.4	7.9	7.5	8.4	8.4
OS7	10.7	8.8	8.9	8.0	7.8	7.2	8.5	6.9	7.6	8.3	7.4	9.8
PB1	9.8	9.0	9.1	8.6	7.7	8.2	7.2	7.1	7.8	8.2	9.1	9.6
PB2	11.0	8.8	9.1	8.9	8.6	8.6	7.7	5.7	8.3	10.6	10.7	11.5
RB1	10.0	9.6	9.5	8.5	8.9	8.6	8.4	8.8	6.6	10.8	9.5	9.6
RB2	14.2	11.7	9.5	9.4	9.4	8.1	8.1	7.9	6.9	10.5	8.8	
RB3	9.7	8.9	9.0	8.5	7.2	8.9	9.0	6.9	8.4	8.8	8.0	9.9
RB4	8.9	9.1	9.3	8.3	10.8	8.2	7.9	7.2	7.6	8.4	8.7	6.7
RB5	10.1	8.9	9.3	8.7	8.7	8.3	7.6	7.4	7.5	8.1	9.3	9.0
RB6	11.1	8.8	8.3	9.0	7.6	7.5	6.7	7.7	7.6	7.8	8.3	10.5
RB7	9.4	10.6	9.5	7.7	9.0	6.7	13.3	5.8	7.6	8.5	8.3	7.4
RB8	9.6	8.7	8.0	7.5	7.2	7.2	7.6	6.6	6.9	7.6	8.3	8.4
RB9	9.8	7.1	7.3	8.4	8.6	8.1	8.6	8.2	7.9	8.9	8.1	8.9
SC1	10.1	9.5	8.4	8.7	7.6	6.6	6.6	6.6	7.5	8.3	7.7	9.2

(continued)

Table 6-11
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
SC2	10.0	9.4	9.0	9.1	8.1	6.9	7.8	7.3	7.4	9.4	9.6	9.2
SC3	10.9	9.4	8.3	8.5	8.4	7.3	7.4	6.7	8.1	8.3	9.1	9.9
UL01	8.7	9.5	7.4	8.0	8.2	7.0	7.0	6.7	7.5	7.2	7.8	11.0
UL02	8.2	7.8	6.8	8.0	8.7	7.1	6.6	6.8	7.1	8.4	7.0	7.5
UL03	6.5	7.4	7.5	7.0	6.5	6.2	6.5	5.0	5.7	5.2	7.8	8.2
UL04	9.3	8.3	8.3	8.8	7.1	7.7	6.8	6.8	8.4	8.6	7.2	8.2
UL05	9.1	9.1		7.8	8.3	7.6	7.8	8.3	7.7	7.7	7.9	9.0
UL06	8.2	8.9	6.0	5.9	6.5	5.4	4.4	5.1	5.3	6.3	6.3	8.0
UL07	7.3	7.3	8.3	8.4	6.9	6.8	6.9	5.9	7.5	7.8	7.7	8.0
UL08	9.0	6.6	6.7	7.7	6.3	4.6	5.6	5.1	6.0	5.8	9.4	6.5
UL09	7.3		6.9	7.5	7.1	6.3	6.9	5.7	7.5	6.8	6.3	8.1
UL10	7.8	7.6	7.3	7.3	7.1	7.2	6.3	5.8	6.5	7.0	7.0	8.2
UL11			6.8	5.8	6.0	5.4	5.3	4.8	9.7	7.3		8.7
GMI1	7.3				6.9	5.3	6.1	5.4	6.3	5.7	7.4	
GMI2	7.5	8.9	7.4	6.6	6.7	5.9	5.4	5.5	6.1	6.5	7.3	7.9
GMI3	7.9	8.7	7.2	7.0	6.1	5.5	5.8	5.5	5.7	6.1	6.9	8.1
GMI4	9.2	8.9	8.3	7.2	6.6	5.9	6.0	5.5	6.5	6.9	7.3	8.1
GMI5	8.8	7.9	8.4	6.6	6.8	6.0	5.7	6.0	5.8	6.3	6.2	8.5
GMI6	9.2	8.7	7.4	7.3	7.0	6.3	7.1	6.2	6.3	6.6	7.2	7.6
GMI7	8.6	8.3	7.8	9.6	7.3	6.5	7.2	6.4	6.4	6.8	7.6	8.1
GMI8	10.4	8.4	8.4	8.9	7.0	6.8	6.1	7.2	6.6	7.0	8.0	8.1
GMI9	8.2	8.4	7.7	10.0	8.1	6.4	7.0	8.2	7.1	7.3	9.5	9.3
GMO4		8.1								7.4	7.2	
GMO5	9.8	7.8	10.0					8.3	6.3	6.8	7.7	8.4
GMO6		8.0	8.6	7.6		6.2			8.1	7.1	7.7	8.4
GMO7	9.8	9.0	9.7	8.1	6.8		10.0	7.6	8.9	7.3	6.5	8.2

(continued)

Table 6-11
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
Aransas Bay	9.4	8.8	8.0	8.0	7.8	7.5	7.6	7.0	7.7	8.2	8.8	8.8
Copano Bay	10.4	9.4	8.8	8.5	8.0	7.3	8.3	7.4	7.6	8.7	9.2	9.8
St Charles	10.5	9.4	8.7	8.8	8.3	7.1	7.6	7.0	7.7	8.8	9.3	9.6
Mesquite	10.7	9.2	8.6	8.6	8.0	7.1	6.9	6.4	7.8	8.0	9.3	9.7
Redfish	10.3	9.2	8.8	8.4	8.6	7.9	8.6	7.2	7.6	8.6	8.5	8.7
Corpus Christi	9.3	8.5	7.8	8.0	7.3	7.0	7.5	6.9	7.2	7.9	8.2	8.6
CCSC (bay)	8.8	9.1	7.7	8.3	7.4	6.5	6.7	6.2	6.7	7.3	8.0	8.0
Inner Harbor	9.3	8.0	8.1	6.9	6.6	6.0	7.8	6.0	5.2	6.6	7.6	7.7
Nueces Bay	8.5	8.5	7.3	7.7	7.1	7.1	6.7	7.1	7.5	8.2	8.2	8.2
Aransas Pass	9.8	9.7	8.4	7.4	7.5	7.1	7.1	6.5	7.3	8.1	8.8	9.2
Causeway N	8.4	8.7	7.3	7.5	6.9	6.7	6.5	6.9	7.3	7.4	8.5	7.8
Causeway S	8.7	8.5	7.8	8.2	7.7	7.2	6.8	6.9	7.7	7.9	7.8	9.3
Laguna (King)	8.0	7.9	6.9	7.2	6.8	6.5	6.4	6.1	7.3	6.9	7.4	8.0
Laguna (Baffin)	7.3	7.0	6.6	7.3	6.4	6.1	6.2	7.1	7.6	7.3	6.7	7.1
Baffin Bay	7.7	7.3	7.5	7.3	6.7	6.7	6.9	6.7	6.7	7.0	7.4	8.3
GOM inlet	9.2	8.3	8.6	7.8	7.0	6.3	7.5	6.9	7.0	6.8	7.2	8.2

Table 6-12
Monthly average values for period-of-record by hydrographic segment and principal bay
Water quality parameter WQDODEF, upper 1 metre

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
A1	-0.3	0.1	0.1	-0.7	-0.9	-0.1	-0.8	0.4	-0.5	-0.6	-1.0	0.8
A2	-1.3	0.2	-0.1	-0.1	-0.7	-1.1	-0.2	-0.2	-1.2	-0.9	-2.0	-0.1
A3	-1.9	0.2	0.0	-0.3	-0.9	-1.0	-0.7	-0.3	-0.3	-0.6	-1.0	-0.7
A4	-0.6	-0.3	-0.2	-0.1	0.2	0.1	-0.3	-1.2	0.3	-1.3	-0.8	-1.7
A5	-1.6	-0.6	-0.3	-0.9	-0.6	0.5	-0.8	-1.0	-0.2	-1.4	-2.4	-0.4
A6	-0.9	-0.6		0.1	-1.4	-1.0	-1.2	-0.5	-0.8	-0.7	-3.1	-2.0
A8	0.3	0.3		-0.9	-3.7	-1.8	-4.3	2.2	-1.6	-2.5	-1.7	1.0
A9	-1.2	-0.7	2.1	-0.7	-2.3	-3.1	-1.8	0.7	-2.3	-0.4	-2.3	-0.8
A10	-1.2	-0.4	-0.1	-0.8	-0.7	-0.3	-0.6	-0.1	0.4	-0.9	-1.7	-1.1
A11	-0.9	-1.2	0.0	-0.7	-0.5	0.1	0.5	-2.2	-1.0	-1.4	-0.6	0.3
A12	-0.2	-0.3	-0.3	-0.7	-1.2	-0.8	-1.1	-0.4	-0.6	-1.8	-0.8	-1.8
A13	-1.7	-0.7	-1.1	-1.8	-2.5	-1.2	-0.8	-1.5	-1.2	-2.2	-1.6	0.2
AL1	-0.7	0.0	-0.5	-1.1	-0.7	-0.3	-1.0	-1.5	-0.8	-0.9	-0.3	-1.2
AL2	0.1	1.0	-0.4	-1.7	-0.4	-0.8	-0.8	-0.6	-0.1	-0.6	-1.1	-1.1
AR1	-0.6	0.4	-0.4	-0.1	-0.5	0.5	-1.0	0.1	-0.7	-0.8	-1.0	-1.4
AYB		0.3	0.3	0.0	0.1	0.5	0.3	1.3	0.2	0.8	0.6	-0.1
BF1	0.3	0.1	0.1	-0.4	-0.2	-0.2	-0.5	-0.6	-0.2	-0.3	-0.5	-1.0
BF2	1.1	0.6	-0.7	-0.1	-0.6	-1.2	0.0	0.2	-0.9	-1.1	0.0	0.4
BF3	-0.3	0.1	0.3	-0.2	-0.2	0.0	0.0	-0.1	-0.5	-0.2	-0.3	-0.9
C01	-0.7	0.0	-0.8	-0.4	-0.8	-1.9	-0.9	-0.4	-0.8	-2.2	-1.2	-0.2
C02	-0.2	0.2	0.4	-0.6	-1.1	-0.6	-1.4	0.3	0.0	-0.7	-0.6	-0.1
C03	-0.3	-0.4	-0.3	-0.8	-0.3	-1.5	-1.5	-0.7	-0.1	-1.4	-0.1	-0.1
C04	-0.1	1.4	0.9	-0.7	-0.6	2.5	-2.2	0.5	1.2	0.2	0.3	1.6
C05	-2.4	-0.2	-0.3	-0.4	-0.3	0.4	-1.0	0.4	0.6	0.1	-0.5	0.0
C06	0.5	0.7	0.1	-0.2	0.6	0.1	-0.7	0.2	0.1	0.2	0.7	0.1
C07	-0.2	-0.3	-0.3	-0.6	-0.3	-1.4	-0.8	-0.2	-0.4	-0.7	-0.5	-0.5
C08		0.7	1.3	-1.2	-0.4		-3.0	-0.6	-1.9	-0.2	-0.5	-0.8

(continued)

Table 6-12
(continued)

Seg ID	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
C09	-1.4	-0.5	-0.4	-0.9	-0.9	-1.4	-1.3	-1.5	-1.2	-0.8	-0.4	-0.6
C10	-0.2	-0.5	0.0	-0.3	-0.1	-0.8	-0.9	0.0	-0.4	-0.4	0.0	-0.7
C11	-0.9	-0.4	-0.2	-0.4	-0.3	-0.1	-0.5	-0.4	0.0	-0.5	-0.4	-0.6
C12	-0.1	0.0	0.0	-0.6	-0.6	-0.7	-0.9	-1.8	-0.7	-0.8	-0.5	-0.9
C13	0.0	0.7	-2.6	-0.4	0.5	-2.0			-0.7	-0.6	-1.1	
C14	-0.5	-0.8	-0.1	-0.8	-0.6	-0.8	-0.7	-0.7	-1.0	-1.0	-0.1	-0.5
C15	-0.4	-0.2	0.1	-0.4	0.0	-0.1	0.0	0.1	0.0	-0.1	-0.2	-0.2
C16						1.8			3.5	-1.1	-0.3	
C17	-1.0	-0.4	-0.9	-0.8	-0.6	0.0	-1.0	-1.1	-0.2	-1.0	-0.8	-1.2
C18			1.0				1.2		0.3		2.4	-0.2
C19	-5.6	0.3	-3.1	-1.9	-1.0	-1.4		-1.1	-1.7	-1.8	0.3	
C20	0.9	-0.4	0.2	-0.5	-0.5	-1.3	-0.7	-0.7	-0.5	-0.9	-0.8	-0.7
C21	-0.2	-0.8	0.2	-1.5	-0.3	-1.0	-0.7	-0.3	-1.3	-0.3	-0.2	-1.4
C22	-1.5	0.2	0.8	-1.5	0.0	0.5	-1.9	0.6	1.1	0.4	-0.1	-0.2
C23	1.9	-0.8	1.0	0.1	-1.1	-0.5		-1.2	-2.8	-1.6	-2.3	
C24	0.1	-1.0	0.5	-0.8	-0.4	-0.8	-1.1	-1.3	-0.1	-0.5	-1.7	0.8
C25		0.1	0.1	-0.3	-0.7	-0.1		-0.7	-1.1	-0.7	-0.8	-0.6
CB	-2.3	-0.4	0.1	-0.9	-0.8	0.5	0.1	0.8	-2.3	-0.8	-1.1	-1.0
CBH				-0.4	-1.8				-1.1	-0.3		
CBY1			-0.4				0.3			-3.0		-0.1
CCC1	0.0	-0.7	0.3	-0.3	-0.4	-0.3	-0.2	-0.4	-0.4	-1.1	-0.1	-0.3
CCC2	-0.2		-0.6	0.1	-0.5	-1.0	0.1		-0.9	0.5	0.1	-0.7
CCC3	-0.4	-0.3	0.2	-0.8	-0.9	-1.3	-0.5	-0.8	-0.9	-1.3	-0.8	-0.2
CCC4	1.9	-0.9	0.1	0.4	-0.6	1.2	0.7	2.0	0.1	0.2	0.1	0.7
CCC5	0.4	0.1	0.5	-1.6	0.4		-0.5		-0.1	0.3	-0.1	0.4
CCC6	-0.9	0.3	0.0	-0.6	-0.3	0.6	0.5	-0.3	0.5	0.1	-0.3	1.3
CCC7	-0.6	-2.3	0.4	-1.1	-0.7	0.2	-0.8	0.0	0.4	-0.8	-0.6	-1.4
CCC8	-0.5	0.0	0.4	0.3	0.4	-0.2	-0.3	-0.2	-0.2	-0.1	-0.3	-0.7

(continued)

Table 6-12
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
CP01	0.2			-1.0	-1.1	0.0			-1.5	-0.8	-1.3	-0.6
CP02	-1.2	0.0	-0.5	-0.3	-0.6	-0.2	-1.5	-1.3	-1.4	-0.4	-0.5	0.4
CP03	-1.1	-0.5	0.0	-0.3	-0.3	0.5	-0.4	-0.1	1.2	-1.3	-1.0	-0.3
CP04	-0.8	0.0	-0.7	-1.3	-0.5	-0.2	-0.9	1.1	-0.9	-1.2	-0.8	-0.8
CP05	-0.7	-0.3	0.3	-0.2	0.0	0.0	-0.4	0.4	0.6	0.7	-0.2	-0.5
CP06	-0.8		0.2	-0.7	-0.8	-0.1	-1.9	-0.3	-0.2	-2.3	-1.0	1.0
CP07	-1.5	-0.2	0.2	-0.6	0.0	-0.4	-0.9	0.1	-0.6	-0.1	0.1	-0.4
CP08	-0.4	-0.8	-0.3	-0.5	-0.9	0.0	-1.5	0.4	-0.4	-1.4	-1.1	-0.5
CP09	-0.7	-0.5	-0.2	-0.3	-0.2	-0.3	-1.0	0.4	-0.6	-1.1	-0.1	-0.4
CP10	-1.2	-0.3	0.2	-0.9	-0.3	0.0	-0.3	-0.5	-0.6	-0.5	-0.3	-0.5
EF	-0.7	-0.5	-0.2	-2.4	-0.8	-1.3	-2.3	-1.2	-2.4	-2.7	0.5	-1.6
GR1			-2.0	0.1	-4.4					0.5		
GR2	-0.3	0.1	-0.1	-0.4	-0.1	0.3	-1.5	-1.7	-1.5	-0.4	0.4	-1.1
HI1	-2.9	-2.8	-0.5	1.0	-0.9	-1.0		-0.2	-1.1	-2.2	-0.5	-2.3
HI2	-0.4	-0.5	0.9	-0.8	-0.6	-3.1	0.2	-0.8	-0.6	-1.5	-0.5	0.2
I2	0.5	1.0	-0.3	-0.4	-0.9	-0.1	-0.2	1.1	-0.2	-0.9	0.0	0.3
I3	-2.2	-0.3	0.9	-0.5	-0.7	0.0	-0.1	-1.1	-2.2	-0.8	-0.8	-1.8
I4		0.5	0.1	-0.7	-1.0	-1.3	-0.1	0.3	-0.4	0.1	-1.1	0.6
I5	-1.1	0.0	-0.1	-0.6	-0.5	-0.6	-1.2	0.0		-2.1	-0.8	-0.2
I6	-0.5	0.1	0.0	-0.3	-0.7	0.0	-0.7	-0.1	0.4	-0.7	-0.9	-0.4
I7	-0.4	-0.1	-0.2	-0.6	-1.0	-0.3	0.3	0.2	-0.5	-0.4	-0.5	-0.2
I8	-1.5	-0.5	-1.1	-1.2	-1.7	-0.4	-0.6	0.4	-0.7	-0.7	0.5	1.1
I9	0.1	-0.1	0.7	0.1	0.7	-0.5	0.8	0.1	-0.6	-0.3	0.2	0.9
I10		0.3	-0.9	-1.1	0.0	-0.8	-0.6	-1.0	-1.6	-0.6	-1.6	-1.9
I11	-0.3	-0.6	1.5	-0.2	-1.3	-1.1	-1.1	-1.2	-0.6	-0.8	-0.3	-1.0
I12	-0.7	-0.5	-1.3	-1.0	-1.1	-1.5	-0.4	0.2	-1.9	-1.0	0.1	-1.1
I13	0.0	-0.3	1.3	-0.1	0.1	-0.5	-1.0	0.2	-3.9	-0.3	-0.4	0.0
I14	1.3	-0.8	2.4	-0.9	0.3	-1.1	-1.7	-2.9	-0.2	-0.1	0.4	1.2

(continued)

Table 6-12
(continued)

Seg ID	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
I15	0.9	1.1	0.6	0.0	0.1	0.1	1.1	1.3	-1.4	-0.5	0.1	0.2
I16	3.5	1.4	0.9	0.5	0.2	-0.4	-0.5	-2.0	-2.2	-1.1	0.8	1.5
I17	-0.7	-0.1	0.7	-0.6	0.0	0.4	-0.3	0.0	-1.2	-0.7	-0.6	-0.4
I18	0.1	0.8		-1.5	-0.2	0.5	0.4	-1.1	-0.9	-0.4	0.5	1.2
IH1	-2.4	0.2	-0.6	-0.2	0.8	0.8	-1.3	-0.2	1.3	1.0	-0.1	-1.2
IH2								0.9				
IH3		1:5	-3.8	0.2		2.0	-4.3	1.4		-0.3	-2.3	
IH4					-1.9	-1.4		1.3		0.2		
IH5	-2.1	0.3	-0.4	0.4	0.5	-0.2	-1.2	-0.8	2.5	-0.2	0.0	0.7
IH6	-1.4	0.2	1.7	0.8	0.4	2.5	0.7	0.4	1.3	1.0	1.3	1.4
IH7	1.0	0.5	0.7	0.6	1.0	0.7	0.0	0.9	1.1	0.6	1.2	1.2
INL		-1.1	-0.8		-0.2	-0.6	-1.2	-0.1	-0.9	0.4	-1.7	0.2
LAC	-1.0	-0.1	-0.2	-0.3	0.2	-0.1	-0.7	0.2	0.6	-1.3	-1.5	-0.9
LB	-1.6	-1.8	0.4	-0.9	-1.0	-0.2	-0.1	0.1	0.3	-0.6	-4.1	0.1
LQ1	-0.1	-0.6	0.3	-0.8	-0.8	-1.0	-0.3	-0.7	-1.2	-1.2	-0.6	-1.0
LQ2	-0.7	-0.7	-1.0	-0.8	-0.1	-0.1	-0.1	-0.5	-2.3	-0.3	0.3	-0.7
LS1			-0.7	0.1	-2.3		-2.2	1.3		0.9		-2.2
LS2	0.0	0.1	-0.7	-0.5	-0.4	-0.2	-1.7	-1.6	-1.2	-0.1	0.0	0.6
M1					-0.9	0.8			-0.6	0.3	-1.6	1.4
M2		-1.7	0.0	-0.5	-0.7	0.1	0.8	-2.5	0.2	-0.7	-1.3	-0.2
MB1	-0.8	-0.9	-0.5	-0.9	-0.5	-0.5	-0.3	-0.5	-0.7	-0.3	-1.6	-0.8
MB2	-1.2	-0.1	0.0	-0.7	-1.0	-0.3	0.0	0.2	-0.4	-0.9	-1.7	-0.6
NB1	2.9	-0.5	2.8	1.0	-0.4	-0.4	-0.3	-1.1	-1.8	-1.4	-1.2	0.0
NB2	2.5	-0.8	0.8	-0.4	-0.7	-0.2		-1.0	-1.7	-0.8	0.4	0.5
NB3	-0.4	0.7	1.5	0.4	0.9	0.3	-0.4	0.3	-0.4	-0.9	-0.3	
NB4	0.2	-0.6	0.5	-0.7	-0.6	-0.2	0.3	-0.5	0.3	-0.7	-0.5	-0.4
NB5	0.1	-0.3	0.3	-0.5	-0.1	0.0	0.1	0.0	0.0	-0.8	-0.5	-0.9
NB6	0.5	0.0	0.1	-0.1	0.7	-0.1	0.2	0.0	0.1	-0.7	-0.6	-0.2

(continued)

Table 6-12
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
NB7	-0.9	-0.3	0.6	-0.5	0.2	-0.8	0.5	-0.5	0.1	-0.9	-0.3	-0.2
NB8	0.7		1.0	0.6	-0.6	-0.1		-0.2	-1.1	-0.6	0.1	0.3
NB9	-1.1	-0.8	0.7	0.2	-0.2	-0.2	-0.8	-2.4	-2.3	-1.5	-2.2	-0.7
ND2	-0.6				-1.1		-1.2	-0.4	1.1	-1.0	0.5	
ND4	-0.2	-0.7	0.4	-0.3	0.8	0.2	0.8	0.9	0.7	-0.3	-0.4	-0.4
NR1	2.0	0.5	0.6	-1.5	0.1	0.6	0.0	1.9	0.1	0.9	1.2	0.6
NR3	0.5		-0.1	-1.7	1.5	1.1	-0.2	1.4		1.2	0.9	
NR4	-1.8	-2.4	-2.6	-1.0	-0.1	-0.7	-1.5	-1.7	-1.0	-1.1	-2.0	-0.8
NR5	-0.3	0.1	-1.1	-1.0	1.7	1.1	-0.6	0.7	1.3	-1.0	-1.3	0.2
OS1	0.0	-1.1	-2.4	-2.9	-1.3	-0.5	-5.1	-2.7	-3.7	-0.9	0.4	3.1
OS3	-0.6	-0.1	1.2	-1.0	-1.1	-1.2	-0.3	-0.7	-0.3	-2.2	-0.8	-0.7
OS4	-1.8	-0.8	-1.6	0.8	-2.8	-0.7	-0.3	-0.3	-2.2	-0.9	-1.7	-4.0
OS5	-2.8		-0.5	-2.1			-1.3	-4.7		-2.2	-1.3	-0.9
OS6	-0.8	-0.1	-3.8	-0.1	-0.7	-0.5	-1.0	-0.3	-1.5	-0.8	-0.4	-0.6
OS7	-2.0	-0.1	-1.6	-0.9	-0.9	-0.7	-2.4	-0.5	-1.1	-1.4	0.3	-1.6
PB1	0.0	-0.2	-0.7	-0.7	-0.2	-1.0	0.3	0.0	-0.2	-0.3	-0.3	-0.7
PB2	-1.6	0.5	-0.9	-1.3	-1.2	-1.4	-0.5	1.2	-1.0	-3.0	-1.9	-2.8
RB1	-1.7	-0.8	-1.1	-1.3	-1.5	-1.7	-1.5	-2.6	0.0	-3.4	-1.6	-1.2
RB2	-5.8	-2.1	-1.8	-2.6	-2.4	-1.3	-1.2	-1.6	-0.4	-3.3	-1.3	
RB3	-0.8	-0.5	-1.1	-1.3	-0.2	-2.1	-2.5	-0.6	-1.6	-1.6	-0.1	-1.8
RB4	0.4	-0.3	-0.5	-0.9	-3.8	-1.4	-1.3	-0.6	-1.0	-1.5	-0.8	1.5
RB5	-0.8	-0.5	-1.2	-1.3	-1.7	-1.7	-1.0	-0.9	-0.8	-1.2	-1.6	-0.5
RB6	-1.7	0.0	-0.7	-1.3	-0.8	-0.8	-0.4	-1.4	-1.0	-0.5	-0.3	-1.4
RB7	-0.8	-1.9	-1.4	-0.4	-2.1	-0.1	-6.9	0.7	-1.2	-1.5	-0.9	0.9
RB8	-0.5	0.1	-0.1	-0.1	-0.1	-0.5	-0.9	-0.1	-0.1	-0.4	-0.6	0.1
RB9	-1.0	1.4	0.3	-1.2	-1.8	-1.6	-2.1	-1.5	-1.2	-1.8	-0.3	-0.7
SC1	-0.4	-0.3	1.3	-0.7	0.2	0.8	0.7	0.5	-0.2	-0.4	0.5	0.5
SC2	-0.6	0.0	-0.4	-1.1	-0.7	0.6	-0.5	-0.2	-0.3	-1.5	-1.2	-0.2

(continued)

Table 6-12
(continued)

Seg ID	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SC3	-1.2	-0.3	0.3	-0.6	-0.9	-0.1	-0.1	0.3	-0.9	-0.6	-0.7	-0.6
UL01	-0.3	-1.4	-0.1	-1.1	-1.4	-0.6	-1.3	-0.9	-1.3	-0.7	-0.3	-2.2
UL02	0.4	0.7	0.7	-1.0	-2.1	-0.6	-0.5	-0.8	-0.9	-1.8	0.4	-0.2
UL03	1.8	1.0	0.2	-0.1	0.0	0.0	-0.4	1.1	0.5	1.6	-0.3	-0.2
UL04	-0.5	-0.5	-0.5	-1.7	-0.3	-1.6	-0.6	-0.4	-2.0	-2.0	0.1	-0.7
UL05	-0.7	-0.8		-1.1	-1.7	-1.4	-1.7	-2.5	-1.6	-0.7	-0.5	-0.7
UL06	0.4	-0.7	1.5	0.8	0.0	0.9	1.6	1.0	0.8	0.2	0.9	-0.5
UL07	0.9	0.5	-1.1	-1.3	-0.5	-0.7	-0.7	0.1	-1.4	-1.2	0.0	0.3
UL08	-0.3	0.8	0.9	-0.9	0.2	1.4	0.4	0.9	-0.2	0.7	-2.1	0.8
UL09	1.0		0.6	-0.6	-0.6	0.0	-0.8	0.2	-1.4	-0.4	1.1	-0.5
UL10	1.1	0.3	0.5	-0.5	-0.8	-1.1	0.0	0.0	-0.4	-0.6	0.3	-0.9
UL11			0.9	0.8	0.3	0.8	1.0	1.3	-3.8	-0.3		-0.5
GMI1	0.1				0.3	1.1	0.4	0.8	0.3	1.3	0.3	
GMI2	0.0	-0.4	0.1	0.6	0.4	0.7	0.9	0.7	0.6	0.4	0.1	-0.2
GMI3	-0.1	-0.1	0.5	0.2	0.8	0.8	0.6	0.8	0.7	0.7	0.5	-0.2
GMI4	-0.4	-0.5	-0.4	0.0	0.3	0.4	0.2	0.7	-0.2	-0.2	0.3	-0.2
GMI5	-0.6	0.5	-0.4	0.1	0.2	0.8	0.5	0.3	0.6	0.4	1.2	-0.4
GMI6	-0.5	-0.1	0.6	0.2	0.2	0.3	-0.8	0.1	0.3	0.2	-0.1	0.7
GMI7	-0.2	0.0	0.1	-2.1	-0.3	0.0	-1.0	-0.1	0.2	0.1	-0.2	0.1
GMI8	-1.7	0.0	-0.4	-2.1	-0.2	-0.3	0.1	-1.1	0.0	-0.1	-0.2	0.1
GMI9	0.1	-0.5	-0.1	-2.8	-1.0	0.2	-0.9	-2.0	-0.7	-0.2	-1.8	-1.8
GMO4		0.2								-0.5	0.6	
GMO5	-1.5	0.6	-2.1					-2.1	0.3	0.3	-0.4	0.2
GMO6		0.6	-0.5	0.0		0.5			-1.2	-0.2	-0.4	-0.7

(continued)

Table 6-12
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
GMO7	-1.4	-0.2	-1.3	-0.4	0.4		-4.2	-0.9	-2.7	-0.4	0.7	-0.6
Aransas Bay	-0.2	0.0	0.5	-0.5	-0.8	-0.7	-0.8	-0.4	-0.9	-1.0	-0.9	-0.1
Copano Bay	-0.9	-0.3	-0.1	-0.6	-0.4	-0.1	-1.0	0.0	-0.3	-0.8	-0.6	-0.2
St Charles	-0.9	-0.2	-0.1	-0.8	-0.8	0.2	-0.3	0.0	-0.6	-1.0	-0.9	-0.4
Mesquite	-1.4	-0.3	0.0	-0.6	-0.6	0.1	0.0	0.5	-0.8	-0.3	-0.9	-0.6
Redfish	-1.4	-0.5	-0.8	-1.1	-1.6	-1.2	-2.0	-0.8	-0.9	-1.5	-0.7	-0.3
Corpus Christi	-0.6	0.0	-0.1	-0.7	-0.4	-0.5	-1.0	-0.3	-0.3	-0.7	-0.3	-0.3
CCSC (bay)	0.1	-0.6	0.3	-0.7	-0.4	0.2	-0.1	0.2	0.0	-0.3	-0.4	0.2
Inner Harbor	-1.3	0.6	-0.5	0.4	0.2	0.7	-1.2	0.5	1.6	0.4	0.0	0.5
Nueces Bay	0.6	-0.2	0.8	-0.1	-0.2	0.0	0.0	-0.3	-0.6	-0.8	-0.2	-0.1
Aransas Pass	-1.3	-1.1	-0.3	0.1	-0.3	-0.5	-0.7	-0.1	-0.4	-1.0	-0.9	-0.8
Causeway N	0.1	-0.3	0.4	-0.3	-0.1	-0.4	-0.2	-0.6	-0.6	-0.5	-0.8	0.4
Causeway S	-0.1	-0.2	-0.2	-1.2	-0.9	-0.9	-0.8	-0.8	-1.5	-1.2	-0.3	-1.3
Laguna (King)	0.4	0.0	0.7	-0.4	-0.4	-0.3	-0.3	0.0	-1.2	-0.3	-0.1	-0.2
Laguna (Baffin)	1.0	0.7	0.8	-0.5	0.0	0.1	-0.2	-1.0	-1.5	-0.7	0.2	0.8
Baffin Bay	0.2	0.4	-0.2	-0.6	-0.3	-0.4	-0.5	-0.6	-0.6	-0.5	-0.3	-0.7
GOM inlet	-0.8	0.2	-0.6	-0.4	0.1	0.4	-1.4	-0.5	-0.4	0.1	0.1	-0.1

Table 6-13

Monthly average values for period-of-record by hydrographic segment and principal bay

Water quality parameter WQAMMN

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
A1				0.000						0.005		
A2	0.100	0.060	0.223	0.038	0.067	0.100	0.123	0.100	0.100	0.100	0.077	0.133
A3	0.082	0.025	0.210	0.060	0.052	0.043	0.108	0.100	0.090	0.058	0.054	0.098
A4	0.020		0.027		0.032		0.020		0.020		0.023	
A5	0.010			0.005	0.000	0.020		0.005				
A10						0.030						
A12	0.064	0.060	0.087	0.054	0.042	0.072	0.058	0.050	0.120	0.078	0.045	0.093
AL2	0.046	0.180	0.044	0.115	0.044	0.025	0.030		0.030	0.088	0.036	
AR1	0.123	0.030	0.000	0.082	0.032	0.000	0.058	0.018	0.037	0.081	0.073	0.055
BF1	0.075	0.047	0.075	0.129	0.034	0.017	0.132	0.042	0.025	0.054	0.028	0.026
BF2	0.099	0.055	0.074	0.066	0.060	0.015	0.085	0.021	0.098	0.070	0.019	0.112
BF3	0.054	0.043	0.035	0.061	0.036	0.017	0.069	0.040	0.011	0.052	0.024	0.009
C02	0.075	0.040	0.051	0.065	0.015	0.130	0.167	0.019	0.000	0.046	0.024	0.223
C03	0.335	0.098	0.054	0.075	0.063	0.132	0.210	0.167	0.069	0.118	0.123	0.246
C04	0.075	0.045	0.045	0.048	0.021	0.181	0.245	0.013	0.049	0.012	0.066	0.147
C05	0.080	0.045	0.110	0.090	0.083	0.065	0.100	0.073	0.050	0.112	0.080	0.088
C06	0.100		0.100	0.050	0.032	0.085	0.100	0.100	0.073	0.048	0.100	0.100
C07	0.063	0.096	0.042	0.082	0.060	0.120	0.067	0.068	0.048	0.087	0.048	0.325
C08	0.112	0.036	0.058	0.057	0.016	0.157	0.267	0.011	0.061	0.020	0.055	0.238
C09	0.010	0.027	0.075	0.053		0.050		0.030		0.225		
C10	0.062	0.075	0.040	0.072	0.045	0.099	0.112	0.042	0.047	0.053	0.046	0.146
C11	0.071	0.059	0.064	0.060	0.042	0.076	0.070	0.068	0.098	0.053	0.102	0.105
C12	0.180	0.041	0.037	0.052	0.034	0.101	0.077	0.039	0.046	0.034	0.035	0.139
C14	0.071	0.051	0.031	0.022	0.048	0.056	0.036	0.025	0.065	0.027	0.037	0.121
C15	0.120	0.049	0.118	0.117	0.098	0.070	0.105	0.053	0.118	0.086	0.058	0.130
C17	0.048	0.038	0.047	0.059	0.041	0.068	0.091	0.044	0.038	0.110	0.046	0.156
C20	0.072	0.031	0.067	0.060	0.048	0.146	0.173	0.012		0.019	0.028	0.130

(continued)

Table 6-13
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
C21	0.100	0.090	0.055	0.077	0.084	0.103	0.102	0.073	0.100	0.092	0.096	0.100
C22	0.150		0.200			0.100	0.100	0.100	0.100	0.100	0.100	0.100
C23	0.024	0.035	0.067	0.062	0.011	0.174	0.298	0.013	0.050	0.016	0.168	0.108
C24	0.027	0.070	0.039	0.060	0.018	0.074	0.100	0.016	0.024	0.020	0.027	0.220
CB	0.078	0.038	0.068	0.049	0.052	0.066	0.133	0.046	0.103	0.162	0.062	0.088
CBY1	0.004		0.010	0.009		0.058	0.033					
CCC1	0.033	0.039	0.037	0.050	0.026	0.047	0.067	0.011	0.061	0.033	0.051	0.099
CCC2					0.317		0.100					
CCC3	0.046	0.073	0.027	0.068	0.048	0.184	0.086	0.040	0.050	0.036	0.049	0.153
CCC4							0.100					
CCC5	0.029	0.044	0.038	0.052	0.023	0.160	0.084	0.012	0.097	0.033	0.032	0.280
CCC6	0.040	0.062	0.100	0.061	0.036	0.046	0.086	0.031	0.065	0.067	0.041	0.193
CCC7	0.071	0.041	0.045	0.065	0.041	0.080	0.067	0.053	0.073	0.027	0.039	0.035
CCC8	0.066	0.144	0.055	0.664	0.102	0.180	0.277	0.114	0.180	0.069	0.059	0.219
CP02				0.036	0.023	0.020		0.025		0.003	0.033	
CP03	0.170	0.043	0.303	0.046	0.080	0.073	0.107	0.068	0.118	0.042	0.077	0.100
CP05	0.095	0.050	0.170	0.043	0.045	0.075	0.070	0.070	0.090	0.053	0.056	0.133
CP07	0.064	0.024	0.196	0.033	0.029	0.053	0.123	0.063	0.093	0.071	0.059	0.105
CP09						0.010				0.200		
CP10	0.045	0.057	0.211	0.037	0.245	0.058	0.044	0.074	0.103	0.073	0.048	0.084
GR2		0.217		0.215	0.170	0.000			0.000	0.067		
I2			0.100			0.100	0.125					
I3	0.116	0.024	0.148	0.087	0.035	0.047	0.092	0.067	0.100	0.138	0.124	0.093
I4					0.000			0.057				
I5	0.045	0.020		0.035	0.049	0.040	0.115	0.005	0.085	0.050	0.033	
I6	0.097	0.107	0.075	0.142	0.047	0.050	0.091	0.021	0.058	0.071	0.038	0.144
I7	0.060	0.025	0.032	0.010	0.102	0.045	0.029		0.027	0.000	0.040	
I9	0.055	0.056	0.077	0.075	0.086	0.063	0.141	0.149	0.114	0.043	0.097	0.154

(continued)

Table 6-13
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
I10	0.006	0.034	0.025	0.014	0.008	0.018	0.015	0.003	0.020	0.007	0.007	0.008
I11								0.460	0.000	0.020		
I12	0.049	0.098	0.000	0.179	0.031	0.000	0.225	0.037	0.000	0.120	0.038	
I13	0.025	0.017	0.023	0.018	0.021	0.016	0.063	0.012	0.033	0.023	0.022	0.006
I15	0.028	0.075	0.027	0.041	0.031	0.015	0.044	0.125	0.016	0.170	0.017	0.008
I17	0.057	0.079	0.054	0.187	0.041	0.011	0.082	0.029	0.005	0.089	0.037	0.006
IH1	0.369	0.340	0.097	0.671	0.274	0.510	0.624	0.252	0.726	0.413	0.569	
IH2								0.155				
IH3						0.300		0.178				
IH4								0.158				
IH5	0.226	0.317	0.975	0.885	0.504	0.324	0.184	0.255	0.516	0.547	0.174	0.247
IH6	0.297	0.256		0.531	0.168	0.165	0.334	0.201	0.190	0.163	0.189	
IH7	0.235	0.222	0.328	0.293	0.117	0.236	0.140	0.208	0.120	0.238	0.175	0.355
INL							0.100					
LAC	0.037	0.003		0.048	0.067	0.022	0.068		0.193	0.265	0.036	
LQ1				0.000								0.117
LQ2	0.056	0.168	0.000	0.238	0.027	0.003	0.027	0.012	0.000	0.065	0.011	0.040
LS1	0.049	0.112	0.018	0.018	0.019	0.042	0.075	0.006	0.019	0.019	0.009	0.005
LS2	0.061	0.053	0.019	0.049	0.039	0.020	0.008	0.005	0.006	0.012	0.009	0.005
MB1	0.071	0.435	0.039	0.003	0.037	0.110	0.028	0.000	0.037	0.017	0.000	0.128
MB2	0.006		0.008	0.006		0.067	0.044					
NB1	0.151	0.051	0.034	0.074	0.192	0.152	0.189	0.040	0.066	0.049	0.046	0.112
NB2	0.111	0.034	0.020	0.118	0.134	0.131	0.192	0.019	0.073	0.037	0.016	0.244
NB3	0.061	0.047	0.041	0.059	0.077	0.135	0.069	0.034	0.038	0.075	0.028	0.177
NB4	0.120	0.106	0.042	0.121	0.125	0.117	0.176	0.016	0.046	0.033	0.033	0.178
NB5	0.136	0.097	0.061	0.061	0.086	0.103	0.093	0.056	0.053	0.063	0.053	0.109
NB6	0.395	0.080	0.051	0.090	0.135	0.107	0.128	0.070	0.090	0.062	0.093	0.106
NB7	0.270	0.127	0.075	0.099	0.036	0.000	0.113	0.023	0.048	0.082	0.016	0.100

(continued)

Table 6-13
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
NB8	0.086		0.016	0.003	0.060	0.149	0.151	0.013		0.034	0.019	0.163
NB9			0.021	0.006			0.171	0.020				
ND2		0.200	0.085	0.073	0.045	0.158				0.085	0.075	0.045
NR1		0.120	0.007	0.000	0.030	0.038	0.127		0.023		0.028	
NR3							0.155			0.287		
NR4	0.315	0.236	0.162	0.142	0.063	0.110	0.055	0.170	0.056	0.158	0.195	0.320
NR5	0.065		0.100	0.327	0.043	0.073	0.157	0.220	0.100	0.082	0.100	0.100
OS1	11.880	5.846		6.885			3.728	8.600	3.750	4.369	9.306	
OS3	0.140	0.305		0.285	0.065		0.975		0.120	0.490		
OS6	0.180	0.522		0.112	0.055		0.030	0.027	0.070	0.098	0.100	0.027
OS7	1.154	0.417		0.600	3.076		0.040	0.059	0.070	0.114	0.113	0.140
PB1	0.069	0.056	0.070	0.315	0.051	0.065	0.031	0.047	0.055	0.110	0.044	0.000
RB1	0.065	0.015		0.000	0.085	0.035	0.040				0.050	
RB3	0.092	0.166	0.036	0.136	0.029	0.023	0.029	0.044	0.042	0.117	0.039	0.040
RB5	0.100		0.100			0.100	0.100	0.100	0.100	0.100	0.100	0.100
RB6	0.100		0.100			0.100	0.100	0.100	0.100	0.100	0.100	0.100
RB8	0.066	0.042	0.025	0.063	0.023	0.018	0.030	0.012	0.028	0.079	0.021	0.033
RB9							0.073					
SC2	0.030	0.040		0.034	0.045			0.025		0.000	0.296	
SC3	0.059	0.047	0.052	0.231	0.043	0.044	0.041	0.049	0.055	0.070	0.034	0.041
UL03		0.008	0.010	0.036	0.012	0.029	0.064	0.002	0.030		0.009	0.004
UL04	0.028	0.070	0.000	0.080	0.054	0.000	0.084	0.083	0.027	0.063	0.039	
UL11			0.200			0.037				0.013		
GMI4	0.080	0.088	0.050	0.522	0.023		0.117	0.042	0.057	0.125	0.028	
GMI6	0.086	0.029	0.287	0.061	0.175	0.028	0.081	0.012	0.073	0.107	0.031	0.073
GMO6			0.670		0.015	0.000			0.088			

(continued)

Table 6-13
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
Aransas Bay	0.059	0.060	0.105	0.063	0.044	0.045	0.072	0.081	0.058	0.083	0.042	0.068
Copano Bay	0.094	0.044	0.220	0.039	0.085	0.048	0.086	0.060	0.101	0.074	0.054	0.106
St Charles	0.044	0.044	0.052	0.133	0.044	0.044	0.041	0.037	0.055	0.035	0.165	0.041
Mesquite	0.052	0.236	0.038	0.019	0.044	0.081	0.069	0.023	0.070	0.089	0.031	0.108
Redfish	0.089	0.104	0.065	0.100	0.026	0.060	0.066	0.064	0.068	0.099	0.065	0.068
Corpus Christi	0.096	0.057	0.069	0.063	0.043	0.113	0.143	0.055	0.060	0.061	0.075	0.155
CCSC (bay)	0.046	0.055	0.053	0.061	0.037	0.117	0.085	0.034	0.071	0.041	0.040	0.165
Inner Harbor	0.282	0.284	0.467	0.595	0.266	0.307	0.321	0.201	0.388	0.340	0.277	0.301
Nueces Bay	0.103	0.071	0.036	0.072	0.096	0.127	0.136	0.028	0.052	0.048	0.030	0.174
Aransas Pass	0.035	0.021	0.037	0.049	0.046	0.034	0.078	0.011	0.127	0.149	0.043	0.099
Causeway N	0.041	0.063	0.058	0.068	0.052	0.068	0.121	0.082	0.069	0.031	0.062	0.187
Causeway S	0.017	0.052	0.012	0.047	0.031	0.009	0.049	0.043	0.023	0.035	0.023	0.008
Laguna (King)	0.034	0.049	0.052	0.069	0.024	0.019	0.099	0.127	0.016	0.069	0.022	0.006
Laguna (Baffin)	0.057	0.079	0.054	0.187	0.041	0.011	0.082	0.029	0.005	0.089	0.037	0.006
Baffin Bay	0.068	0.108	0.057	0.117	0.069	0.015	0.079	0.034	0.033	0.066	0.027	0.049
GOM inlet	0.086	0.029	0.478	0.061	0.095	0.014	0.081	0.012	0.080	0.107	0.031	0.073

Table 6-14
Monthly average values for period-of-record by hydrographic segment and principal bay
Water quality parameter WQNO3N

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
A1				0.005						0.000		
A2	0.030	0.015	0.020	0.008	0.017	0.035	0.020	0.030	0.030	0.180	0.023	0.030
A3	0.016	0.010	0.014	0.008	0.007	0.008	0.018	0.030	0.015	0.133	0.020	0.030
A4	0.020		0.012		0.017		0.010		0.010		0.010	
A5	0.000			0.000	0.000	0.000		0.005				
A10						0.000						
A12	0.010	0.007	0.020	0.006	0.032	0.006	0.018	0.016	0.015	0.040	0.026	0.027
AL2	0.012	0.070	0.042	0.000	0.016	0.030	0.010		0.006	0.023	0.010	
AR1	0.035	0.154	0.013	0.609	0.022	0.020	0.245	0.052	0.038	0.027	0.034	0.030
BF1	0.033	0.026	0.019	0.073	0.017	0.011	0.014	0.027	0.008	0.040	0.008	0.003
BF2	0.035	0.004	0.023	0.012	0.014	0.010	0.021	0.006	0.028	0.019	0.012	0.016
BF3	0.023	0.015	0.010	0.099	0.022	0.004	0.019	0.021	0.002	0.036	0.008	0.002
C02	0.029	0.039	0.034	0.200	0.023	0.190	0.274	0.003	0.003	0.016	0.041	0.034
C03	0.030	0.021	0.026	0.012	0.021	0.073	0.093	0.024	0.104	0.031	0.061	0.040
C04	0.026	0.026	0.031	0.180	0.011	0.227	0.144	0.003	0.339	0.017	0.039	0.036
C05	0.016	0.008	0.016	0.016		0.007	0.024	0.018	0.015	0.010	0.030	0.027
C06	0.030		0.040	0.010	0.006	0.015	0.030	0.030	0.015	0.010	0.030	0.027
C07	0.025	0.014	0.015	0.008	0.014	0.017	0.017	0.020	0.017	0.020	0.027	0.026
C08	0.027	0.025	0.033	0.024	0.020	0.213	0.115	0.006	0.105	0.010	0.069	0.051
C09	0.000	0.000		0.010		0.000		0.003		0.000		
C10	0.015	0.019	0.016	0.013	0.017	0.030	0.045	0.012	0.050	0.012	0.026	0.030
C11	0.014	0.013	0.015	0.011	0.019	0.015	0.015	0.017	0.042	0.009	0.019	0.025
C12	0.014	0.013	0.016	0.010	0.016	0.036	0.042	0.011	0.036	0.008	0.013	0.030
C14	0.022	0.007	0.015	0.011	0.038	0.039	0.013	0.010	0.042	0.008	0.021	0.024
C15	0.038	0.042	0.026	0.143	0.070	0.018	0.095	0.022	0.075	0.076	0.046	0.032
C17	0.017	0.024	0.019	0.039	0.013	0.037	0.032	0.011	0.032	0.008	0.020	0.033
C18							0.013					

(continued)

Table 6-14
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
C20	0.031	0.027	0.028	0.015	0.062	0.179	0.059	0.001		0.021	0.038	0.035
C21	0.017	0.015	0.015	0.008	0.020	0.017	0.014	0.018	0.030	0.020	0.011	0.025
C22	0.030		0.030			0.030	0.030	0.030	0.030	0.030	0.030	0.027
C23	0.032	0.023	0.025	0.010	0.025	0.276	0.213	0.006	0.124	0.021	0.039	0.040
C24	0.019	0.026	0.017	0.015	0.013	0.102	0.050	0.000	0.008	0.010	0.018	0.027
C25		0.010	0.050	0.013	0.010		0.040			0.010		
CB	0.014	0.008	0.015	0.011	0.020	0.011	0.020	0.016	0.015	0.055	0.024	0.027
CBY1	0.026		0.012	0.072		0.375	0.012					
CCC1	0.012	0.022	0.011	0.036	0.017	0.023	0.017	0.005	0.466	0.850	0.015	0.018
CCC3	0.011	0.012	0.008	0.005	0.025	0.127	0.032	0.009	0.276	0.404	0.008	0.018
CCC4							0.027					
CCC5	0.016	0.022	0.013	0.021	0.015	0.092	0.038	0.005	0.039	0.013	0.013	0.026
CCC6	0.043	0.016	0.040	0.128	0.047	0.036	0.127	0.011	0.025	0.022	0.011	0.020
CCC7	0.012	0.033	0.012	0.029	0.009	0.036	0.021	0.012	0.110	0.104	0.033	0.081
CCC8	0.036	0.124	0.035	0.145	0.116	0.166	0.340	0.250	0.068	0.037	0.062	0.283
CP02			2.537	0.006	0.033	0.007		0.005		0.030	0.053	
CP03	0.020	0.010	0.820	0.008	0.013	0.053	0.023	0.018	0.108	0.088	0.078	0.025
CP05	0.015	0.015	0.023	0.047	0.025	0.035	0.027	0.027	0.120	0.023	0.052	0.027
CP07	0.014	1.090	1.096	0.013	0.014	0.021	0.038	0.015	0.015	0.038	0.051	0.027
CP09						0.040				0.030		
CP10	0.052	0.038	1.021	0.027	0.368	0.012	0.012	0.123	0.042	0.024	0.020	0.020
GR2		0.047		0.010	0.020	0.000			0.000	0.021		
I2			0.030			0.040	0.040					
I3	0.016	0.008	0.012	0.015	0.028	0.018	0.020	0.030	0.030	0.065	0.064	0.027
I5	0.003	0.000		0.000	0.000	0.000	0.000		0.000	0.005	0.050	
I6	0.048	0.019	0.030	0.167	0.032	0.050	0.143	0.003	0.012	0.014	0.028	0.022
I7	0.010	0.000	0.010	0.003	0.006	0.000	0.009		0.007	0.000	0.005	
I9	0.019	0.006	0.025	0.062	0.031	0.019	0.036	0.334	0.514	0.010	0.009	0.672

(continued)

Table 6-14
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
I10	0.005	0.006	0.011	0.004	0.005	0.002	0.012	0.004	0.017	0.003	0.006	0.008
I11								0.150	0.050	0.000		
I12	0.024	0.027	0.020	0.140	0.017	0.045	0.022	0.017	0.000	0.039	0.007	
I13	0.009	0.003	0.007	0.005	0.006	0.002	0.009	0.005	0.013	0.005	0.008	0.007
I15	0.009	0.000	0.007	0.004	0.009	0.002	0.009	0.141	0.003	0.000	0.009	0.008
I17	0.023	0.026	0.009	0.114	0.024	0.001	0.019	0.014	0.016	0.047	0.014	0.006
IH1	0.204	0.197	0.078	0.167	0.234	0.096	0.271	0.264	0.063	0.065	0.057	
IH2								0.050				
IH3							0.020	0.067				
IH4								0.120				
IH5	0.184	0.397	0.103	0.301	0.350	0.240	0.489	1.132	0.103	0.227	0.231	0.203
IH6	0.118	0.227		0.264	0.226	0.205	0.197	0.062	0.123	0.107	0.122	
IH7	0.130	0.106	0.174	0.045	0.226	0.022	0.029	0.050	0.008	0.062	0.058	0.180
INL							0.030					
LAC	0.000	0.000		0.010	0.015	0.004	0.018		0.200	0.007	0.006	
LQ1							0.025					
LQ2	0.043	0.016	0.000	0.165	0.019	0.030	0.176	0.003	0.000	0.020	0.023	0.000
LS1	0.019	0.003	0.004	0.007	0.002	0.006	0.006	0.005	0.024	0.000	0.008	0.002
LS2	0.027	0.001	0.005	0.005	0.004	0.004	0.012	0.004	0.006	0.007	0.007	0.002
MB1	0.329	0.015	0.161	0.089	0.035	0.177	0.026	0.000	0.017	0.032	0.000	0.042
MB2	0.023		0.004	0.091		0.134	0.015					
NB1	0.033	0.076	0.174	0.060	0.106	0.146	0.092	0.012	0.103	0.022	0.079	0.064
NB2	0.015	0.063	0.203	0.212	0.018	0.098	0.094	0.015	0.095	0.027	0.034	0.038
NB3	0.014	0.342	0.073	0.163	0.054	0.183	0.032	0.008	0.040	0.012	0.036	0.043
NB4	0.026	0.063	0.093	0.089	0.084	0.151	0.036	0.025	0.060	0.020	0.027	0.044
NB5	0.040	0.085	0.062	0.077	0.080	0.078	0.048	0.019	0.059	0.022	0.034	0.209
NB6	0.024	0.217	0.081	0.100	0.041	0.087	0.064	0.018	0.083	0.028	0.082	2.048
NB7	0.130	0.062	0.085	0.238	0.034	0.050	0.183	0.025	0.024	0.022	0.079	0.075

(continued)

Table 6-14
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
NB8	0.029		0.077	0.012	0.037	0.144	0.110	0.009		0.037	0.036	0.051
NB9			0.087	0.009			0.105	0.078				
ND2		0.075	0.020	0.040	0.030	0.093				0.033	0.020	0.040
NR1		0.000	0.057	0.000	0.700	0.000	0.072		0.206	0.500	0.149	0.635
NR3							0.013			0.160	0.010	
NR4	0.155	0.113	0.250	0.080	0.061	0.103	0.039	0.021	0.034	0.201	0.233	0.285
NR5	0.015		0.045	0.038	1.410	0.030	0.034	0.020	0.075	0.030	0.035	0.080
OS1	0.640	1.024		1.262			0.134	0.350	0.887	1.787	1.335	
OS3	0.025	0.730		0.400	0.215		0.065		0.035	0.053		
OS6	0.050	0.236		0.174	0.020		0.005	0.090	0.170	0.072	0.058	0.000
OS7	0.020	0.055		0.314	0.050		0.340	0.120	0.043	0.039	0.018	0.035
PB1	0.018	0.081	0.040	0.262	0.026	0.065	0.364	0.020	0.055	0.031	0.030	0.065
RB1	0.000	0.000		0.000	0.000	0.000	0.000				0.018	
RB3	0.038	0.005	0.020	0.300	0.025	0.010	0.258	0.005	1.143	0.340	0.049	1.875
RB5	0.030		0.030			0.030	0.030	0.030	0.030	0.030	0.030	0.030
RB6	0.030	0.165	0.030			0.030	0.030	0.030	0.030	0.030	0.030	0.027
RB8	0.023	0.012	0.032	0.091	0.012	0.008	0.082	0.003	0.003	0.023	0.049	0.013
RB9							0.023					
SC2	0.000	0.000		0.002	0.018			0.000		0.050	0.140	
SC3	0.038	0.036	0.094	0.116	0.029	0.024	0.120	0.008	0.034	0.040	0.016	0.028
UL03		0.000	0.012	0.005	0.004	0.004	0.009	0.005	0.025		0.010	0.008
UL04	0.046	0.029	0.040	0.041	0.038	0.100	0.025	0.025	0.000	0.015	0.006	
UL11			0.067			0.007				0.000		
GMI4	0.017	0.038	0.055	0.577	0.065		0.743	0.018	0.000	0.040	0.015	
GMI6	0.038	0.004	0.019	0.129	0.109	0.024	0.163	0.010	0.050	0.021	0.042	0.022
GMO6				0.045	0.000	0.035			0.000			

(continued)

Table 6-14
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
Aransas Bay	0.018	0.012	0.014	0.024	0.017	0.009	0.016	0.046	0.015	0.067	0.017	0.020
Copano Bay	0.025	0.288	1.099	0.020	0.090	0.028	0.025	0.037	0.071	0.039	0.051	0.025
St Charles	0.019	0.018	0.094	0.059	0.023	0.024	0.120	0.004	0.034	0.045	0.078	0.028
Mesquite	0.122	0.011	0.060	0.064	0.028	0.107	0.020	0.008	0.016	0.043	0.012	0.034
Redfish	0.030	0.060	0.028	0.196	0.019	0.020	0.085	0.017	0.301	0.106	0.039	0.486
Corpus Christi	0.024	0.020	0.024	0.040	0.022	0.091	0.071	0.014	0.068	0.016	0.033	0.032
CCSC (bay)	0.020	0.021	0.018	0.046	0.024	0.073	0.049	0.009	0.113	0.136	0.017	0.036
Inner Harbor	0.159	0.232	0.118	0.194	0.259	0.141	0.201	0.249	0.074	0.115	0.117	0.192
Nueces Bay	0.025	0.138	0.102	0.111	0.055	0.131	0.064	0.015	0.063	0.023	0.033	0.077
Aransas Pass	0.006	0.011	0.011	0.023	0.016	0.014	0.021	0.005	0.333	0.428	0.011	0.018
Causeway N	0.019	0.014	0.031	0.030	0.018	0.060	0.042	0.167	0.261	0.010	0.013	0.349
Causeway S	0.025	0.017	0.025	0.023	0.021	0.051	0.019	0.014	0.008	0.009	0.006	0.008
Laguna (King)	0.014	0.008	0.023	0.039	0.009	0.012	0.012	0.064	0.018	0.009	0.008	0.008
Laguna (Baffin)	0.023	0.026	0.009	0.114	0.024	0.001	0.019	0.014	0.016	0.047	0.014	0.006
Baffin Bay	0.026	0.033	0.024	0.039	0.018	0.011	0.016	0.018	0.009	0.028	0.009	0.007
GOM inlet	0.038	0.004	0.019	0.087	0.054	0.030	0.163	0.010	0.025	0.021	0.042	0.022

Table 6-15
Monthly average values for period-of-record by hydrographic segment and principal bay
Water quality parameter WQTOTP

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
A1	15.3	15.0	15.9	15.3	15.4	13.8	12.2	22.7	21.8	18.9	16.1	16.4
A2	15.2	16.5	18.4	16.5	11.8	17.7	15.2	21.3	18.1	18.0	16.2	14.4
A1				0.075						0.085		
A2	0.075	0.035	0.090	0.080	0.228	0.040	0.160	0.060	0.075	0.085	0.073	0.065
A3	0.062	0.063	0.055	0.078	0.090	0.063	0.152	0.060	0.055	0.072	0.060	0.065
A4	0.093		0.077		0.120		0.122		0.123		0.105	
A5	0.060			0.060	0.100	0.030		0.050				
A10						0.015						
A12	0.052	0.040	0.078	0.080	0.072	0.046	0.114	0.060	0.035	0.070	0.060	0.053
AL2	0.128	0.090	0.208	0.260	0.104	0.205	0.142		0.078	0.165	0.106	
AR1	0.092	0.136	0.127	0.164	0.143	0.115	0.126	0.282	0.186	0.168	0.102	0.123
BF1	0.100	0.100	0.137	0.101	1.030	0.145	0.103	0.147	0.084	0.096	0.096	0.100
BF2		0.138	0.060	0.147	0.115	0.093	0.068		0.059	0.117	0.051	0.109
BF3	0.147	0.065		0.106	0.086	0.063	0.059	0.127	0.058	0.084	0.076	
C02	0.066	0.062		0.074	0.088		0.145	0.119	0.080	0.065	0.068	
C03	0.385	0.097	0.080	0.080	0.110	0.053		0.100		0.116	0.187	
C04					0.070							
C05	0.055	0.061	0.077	0.146	0.050	0.072	0.070	0.073	0.040	0.072	0.060	0.044
C06	0.035		0.025	0.163	0.036	0.073	0.035	0.050	0.033	0.060	0.040	0.040
C07	0.053	0.042	0.058	0.045	0.068	0.048	0.076	0.058	0.068	0.058	0.057	0.045
C09	0.060	0.057	0.065	0.037		0.053		0.080		0.068		
C10	0.056	0.042	0.050	0.037	0.060	0.047	0.074	0.067	0.068	0.059	0.057	0.038
C11	0.050	0.053	0.061	0.075	0.069	0.058	0.065	0.059	0.060	0.049	0.069	0.029
C12	0.041	0.030	0.041	0.077	0.065	0.055	0.067	0.058	0.045	0.061	0.064	0.030
C14	0.048	0.017	0.045	0.102	0.086	0.030	0.068	0.060	0.059	0.052	0.054	0.033
C15	0.089	0.077	0.088	0.100	0.110	0.125	0.153	0.116	0.098	0.098	0.100	0.095
C17	0.059	0.066	0.061	0.115	0.064	0.072	0.090	0.065	0.065	0.084	0.063	0.038

(continued)

Table 6-15
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
C21	0.032	0.044	0.040	0.038	0.074	0.042	0.058	0.060	0.030	0.042	0.054	0.038
C22	0.040		0.025			0.045	0.095	0.040	0.030	0.045	0.045	0.050
C24	0.063		0.065		0.082		0.058		0.060		0.070	
CB	0.073	0.097	0.164	0.113	0.120	0.110	0.180	0.094	0.075	0.123	0.090	0.076
CCC1	0.051	0.119	0.052	0.049	0.085	0.057	0.047		0.051	0.053	0.044	0.015
CCC2							0.036					
CCC3	0.057	0.045	0.052	0.054	0.073	0.035	0.050	0.175	0.064	0.048	0.047	
CCC4							0.063					
CCC5	0.058		0.064		0.068		0.074		0.085		0.063	
CCC6	0.041	0.063	0.033	0.057	0.044	0.072	0.041	0.079	0.061	0.058	0.077	0.080
CCC7	0.074		0.054	0.118	0.078	0.073	0.111	0.070	0.093	0.065	0.057	0.047
CCC8	0.104	0.101		0.082	0.102	0.170	0.083	0.104	0.075	0.085	0.093	
CP02				0.076	0.193	0.057	0.265	0.065		0.060	0.050	
CP03	0.080	0.057	0.078	0.080	0.136	0.192	0.080	0.083	0.205	0.148	0.082	0.085
CP05	0.128	0.035	0.113	0.117	0.240	0.108	0.083	0.080	0.090	0.065	0.064	0.063
CP07	0.066	0.046	0.077	0.079	0.089	0.070	0.162	0.095	0.045	0.089	0.070	0.075
CP09						0.090				0.125		
CP10	0.086	0.066	0.068	0.082	0.074	0.061	0.127	0.082	0.078	0.115	0.069	0.117
GR2		0.210		0.345	0.210	0.225			0.110	0.310		
I2			0.084			0.152	0.036					
I3	0.066	0.068	0.156	0.050	0.138	0.088	0.145	0.070	0.095	0.135	0.100	0.070
I5	0.066	0.075		0.092	0.097	0.083	0.127		0.040	0.075	0.073	
I6	0.071	0.056	0.040	0.069	0.092	0.030	0.044	0.081	0.073	0.084	0.067	0.043
I7	0.065	0.020	0.058	0.100	0.088	0.038	0.103		0.058	0.070	0.065	
I9	0.046	0.056	0.047	0.062	0.088	0.051	0.066	0.095	0.056	0.049	0.061	0.038
I11								0.090	0.035	0.085		
I12	0.031	0.046	0.000	0.075	0.037	0.100	0.041	0.052	0.043	0.049	0.042	
I13	0.052		0.080		0.060		0.052		0.053		0.064	

(continued)

Table 6-15
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
I15	0.050	0.053	0.085	0.205	0.070		0.068	0.080	0.022	0.055	0.067	
I17	0.034	0.055		0.050	0.061		0.043	0.063	0.040	0.051	0.057	
IH1	0.197	0.116	0.158	0.159	0.389	0.218	0.180	0.166	0.147	0.165	0.195	
IH2								0.070				
IH3								0.062				
IH4								0.063				
IH5	0.144	0.106	0.101	0.099	0.177	0.138	0.107	0.154	0.139	0.142	0.104	0.136
IH6	0.109	0.109		0.116	0.119	0.160	0.111	0.102	0.088	0.128	0.111	
IH7	0.160	0.144	0.113	0.198	0.177	0.115	0.073	0.146	0.120	0.219	0.128	0.100
INL							0.061					
LAC	0.043	0.030		0.043	0.099	0.048	0.042		0.050	0.030	0.038	
LQ2	0.047	0.046	0.020	0.061	0.065	0.053	0.043	0.067	0.055	0.067	0.067	0.025
LS2		0.140		0.265	0.100	0.095			0.083	0.195		
MB1	0.115	0.080	0.132	0.093	0.124	0.125	0.189	0.085	0.187	0.132	0.120	0.083
NB3	0.132		0.130		0.162		0.202		0.153		0.147	
NB4	0.139		0.120	0.190	0.162		0.209		0.143		0.140	
NB5	0.108	0.127	0.121	0.124	0.131	0.112	0.167	0.200	0.116	0.129	0.121	0.065
NB6	0.404	0.150	0.093	0.144	0.145	0.083	0.107	0.123	0.128	0.150	0.103	0.073
NB7	0.102	0.115	0.030	0.113	0.121	0.115	0.142	0.151	0.116	0.092	0.124	0.080
ND2		0.125	0.263	0.315	0.223	0.293				0.193	0.213	0.097
NR1		0.070	0.121	0.085	0.180	0.132	0.410		0.057		0.138	
NR3							0.145			0.853		
NR4	0.565	0.569	0.581	0.535	0.473	0.464	0.440	0.657	0.520	0.697	0.402	0.441
NR5	0.130		0.105	0.313	0.227	0.163	0.120	0.258	0.325	0.286	0.170	0.120
OS1	3.818	2.134		2.304			1.578	3.160	1.670	3.043	1.761	
OS3	0.301	0.450		0.282	0.280		0.332		1.175	0.424		
OS6	0.110	0.296		0.243	0.392		0.303	0.239	0.145	0.214	0.324	0.083
OS7	0.712	0.345		0.208	1.643		0.176	0.249	0.373	0.231	0.159	0.175

(continued)

Table 6-15
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
PB1	0.121	0.082	0.131	0.128	0.067	0.190	0.073	0.076	0.130	0.070	0.083	0.075
RB1	0.042	0.020		0.030	0.087	0.020	0.103				0.043	
RB3	0.044	0.047	0.027	0.060	0.042	0.063	0.048	0.112	0.046	0.061	0.067	0.055
RB5	0.025		0.015			0.030	0.035	0.035	0.025	0.050	0.040	0.040
RB6	0.065		0.010			0.025	0.030	0.015	0.025	0.050	0.040	0.040
RB8	0.061	0.060	0.071	0.080	0.045	0.058	0.052	0.053	0.049	0.067	0.082	0.059
RB9							0.045					
SC2	0.109	0.040	0.270	0.062	0.090		0.315	0.070		0.095	0.048	
SC3	0.076	0.085	0.084	0.115	0.087	0.082	0.094	0.087	0.101	0.176	0.093	0.078
UL03				0.035								
UL04	0.034	0.048	0.000	0.047	0.064	0.100	0.048	0.071	0.043	0.042	0.046	
UL11			0.063			0.033				0.060		
GMI4	0.046	0.118	0.007	0.030	0.060		0.063	0.070	0.060	0.048	0.163	
GMI6	0.048	0.052	1.127	0.060	0.033	0.021	0.027	0.030	0.045	0.033	0.028	0.082
GMO6					0.010				0.005			

(continued)

Table 6-15
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
Aransas Bay	0.061	0.049	0.077	0.095	0.107	0.041	0.110	0.065	0.058	0.070	0.070	0.061
Copano Bay	0.090	0.051	0.084	0.087	0.146	0.096	0.143	0.081	0.105	0.100	0.067	0.085
St Charles	0.093	0.063	0.177	0.088	0.089	0.082	0.205	0.079	0.101	0.135	0.071	0.078
Mesquite	0.094	0.089	0.148	0.103	0.122	0.117	0.185	0.089	0.131	0.127	0.105	0.079
Redfish	0.049	0.053	0.031	0.070	0.043	0.044	0.042	0.054	0.036	0.057	0.057	0.049
Corpus Christi	0.080	0.054	0.052	0.088	0.070	0.054	0.078	0.068	0.053	0.064	0.069	0.039
CCSC (bay)	0.058	0.054	0.051	0.076	0.066	0.060	0.068	0.108	0.076	0.057	0.061	0.063
Inner Harbor	0.152	0.119	0.124	0.143	0.215	0.158	0.118	0.109	0.123	0.164	0.135	0.118
Nueces Bay	0.126	0.127	0.124	0.157	0.151	0.112	0.193	0.200	0.137	0.129	0.136	0.065
Aransas Pass	0.047	0.074	0.052	0.046	0.092	0.052	0.050		0.051	0.042	0.041	0.015
Causeway N	0.055	0.056	0.056	0.062	0.085	0.051	0.062	0.095	0.058	0.049	0.066	0.038
Causeway S	0.034	0.048	0.000	0.047	0.064	0.100	0.048	0.071	0.043	0.042	0.046	
Laguna (King)	0.044	0.050	0.057	0.105	0.056	0.067	0.053	0.074	0.038	0.062	0.058	
Laguna (Baffin)	0.034	0.055		0.050	0.061		0.043	0.063	0.040	0.051	0.057	
Baffin Bay	0.125	0.121	0.135	0.192	0.309	0.146	0.093	0.137	0.078	0.154	0.082	0.105
GOM inlet	0.048	0.052	1.127	0.060	0.021	0.021	0.027	0.030	0.025	0.033	0.028	0.082

Table 6-16
Monthly average values for period-of-record by hydrographic segment and principal bay
Water quality parameter WQXTSS

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
A1	18.9	28.4	45.3	47.9	45.5	46.2	31.0	53.3	37.8	31.5	35.6	27.9
A2	16.2	48.4	86.4	68.5	84.2	50.0	39.4	24.4	52.8	47.2	45.1	26.6
A3	23.8	27.2	46.8	39.7	32.1	42.5	23.6	46.5	19.4	43.7	38.1	20.1
A4	14.4	25.6	67.2	41.9	44.7	38.4	37.1	25.9	39.4	45.6	28.1	18.5
A5	11.2	19.8	52.1	39.6	35.0	31.5	29.9	16.6	23.6	20.7	33.4	23.5
A6	29.0	22.9	20.7	33.4	28.1	41.8	40.2	26.8	22.0	25.5	21.6	25.7
A8	15.5	108.3	29.5	35.4	34.8	21.3	28.6	33.9	63.9	35.9	13.4	16.7
A9	43.9	20.3	24.8	42.5	24.1	33.4	22.0	29.6	29.5	27.4	18.9	28.0
A10	14.4	21.7	38.8	37.1	73.3	56.3	31.9	36.5	41.5	26.1	36.2	21.3
A11	16.1	25.3	31.6	38.2	42.8	39.9	23.0	43.1	36.4	34.5	26.4	40.3
A12	14.6	18.7	33.1	25.0	29.6	48.0	25.6	19.0	32.7	25.3	36.7	46.6
A13	18.2	17.5	30.8	67.9	38.8	89.2	23.5	19.9	21.0	18.5	17.7	22.4
AL1	97.1	92.4	190.2	166.1	143.2	236.4	53.0	81.8	77.0	109.0	89.6	178.5
AL2	40.6	84.1	114.2	95.8	72.8	97.7	31.9	64.3	88.9	87.6	53.2	41.9
AR1	96.9	83.2	211.2	100.5	83.6	71.2	88.6	88.9	94.8	45.0	61.6	79.1
AYB		44.7	58.6	75.6	42.5	62.7	84.1	48.2	34.7	37.5	31.0	47.2
BF1	50.1	62.4	60.3	56.1	61.6	75.5	68.9	51.0	41.3	45.2	48.0	48.0
BF2	46.6	48.8	47.4	82.3	58.5	48.3	61.6	55.9	36.2	39.2	48.4	53.2
BF3	31.1	34.3	39.3	45.2	33.3	34.8	39.8	42.4	26.1	30.7	32.9	30.1
C01	68.4	31.2	68.2	126.4	82.8	98.8	84.0	63.0	28.0	65.0	78.5	35.5
C02	19.3	20.2	21.9	44.9	37.6	42.6	33.5	42.8	19.3	28.9	23.7	18.2
C03	41.4	30.3	46.5	47.1	48.8	63.8	52.3	48.0	59.7	39.4	70.9	46.0
C04	38.1	32.9	23.1	47.3	35.2	26.5	19.1	24.2	26.2	21.4	23.8	35.0
C05	19.4	167.1	371.5	36.1	685.3	335.7	21.6	17.4	53.8	18.8	223.5	23.3
C06	18.4	205.5	168.9	36.2	351.2	156.4	20.8	20.1	32.5	25.5	262.0	37.5
C07	24.8	27.8	34.4	74.3	59.1	61.2	46.0	30.6	29.1	44.5	35.4	53.5
C08	20.9	16.8	25.0	38.2	38.1	19.1	23.9	31.0	37.1	19.8	30.3	13.6

(continued)

Table 6-16
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
C09	47.6	53.0	99.9	33.8	112.4	105.5	37.7	29.2	24.4	31.3	124.8	26.1
C10	20.4	21.2	17.2	25.6	24.0	40.4	17.9	25.8	30.5	24.3	25.8	37.1
C11	27.0	104.6	224.2	30.9	283.7	184.2	16.6	21.8	23.9	26.1	184.3	18.6
C12	21.4	41.5	64.5	34.5	89.5	103.6	35.3	31.6	32.8	25.3	112.2	25.1
C13	20.4	14.1	25.4	29.1	17.2	33.3	12.8	12.3	29.4	18.7	13.4	26.4
C14	31.8	20.8	29.4	26.5	28.3	38.8	30.0	26.1	20.9	26.6	30.3	21.7
C15	54.4	43.2	98.7	102.0	85.4	95.7	94.2	72.7	72.0	87.1	44.8	60.6
C16	23.7	85.4	18.4	24.8	33.0	43.8	32.1	22.2		15.5	20.0	17.3
C17	14.9	175.1	200.8	88.4	449.6	546.8	43.5	41.5	45.1	28.4	159.5	29.0
C18	20.0	19.6	30.8	34.2	42.8	36.7	19.7	29.6	22.8	29.1	41.7	23.8
C19	17.9	14.7	21.9	57.1	53.2	39.0	29.6	22.0	20.9	30.6	18.9	129.8
C20	28.8	20.3	55.3	86.5	113.6	86.7	42.7	61.4	41.9	54.3	69.9	31.3
C21	25.4	14.2	20.2	20.0	38.6	30.1	14.5	23.1	17.6	28.1	27.4	17.1
C22	9.6	12.6	36.5	43.7	54.7	17.1	12.5	19.0	21.5	31.1	21.1	17.7
C23	26.7	53.2	53.5	16.8	48.2	26.5	18.6	58.1	16.4	30.2	15.7	16.7
C24	15.9	23.8	21.9	32.5	18.8	21.3	13.5	16.5	25.6	45.0	31.2	10.6
C25		11.7	15.0	15.2	13.7	35.0		50.5	14.3	12.7	16.6	12.9
CB	20.4	44.0	87.0	56.8	71.0	42.0	70.8	33.0	34.9	47.3	35.8	32.5
CBH				22.6	23.5	73.5			19.9			
CBY1			18.5				50.4			19.0		25.4
CBY2	34.2	60.7	57.7	105.7		79.1	89.7	59.6	42.4	54.9		16.0
CCC1	40.1	89.2	74.3	36.5	95.5	80.3	28.8	36.4	43.6	54.0	127.8	41.7
CCC2	20.1	18.1	18.1	20.9	30.9	20.7	17.5	26.7	21.9	20.4	20.0	26.1
CCC3	45.2	36.0	48.2	49.8	69.7	51.3	46.1	34.3	41.1	40.0	44.6	50.0
CCC4	13.9	14.0	14.7	46.0	16.8	18.5	25.9	29.0	24.6	35.5	24.3	23.8
CCC5	22.9	13.5	19.5	68.3	40.4	25.5	25.0	31.0	33.1	16.5	24.3	17.1
CCC6	18.4	26.2	21.0	38.4	26.7	72.9	30.8	33.7	40.2	25.4	20.8	25.3
CCC7	18.6	176.8	467.1	43.2	424.5	436.2	19.3	25.4	37.9	22.7	382.0	20.8

(continued)

Table 6-16
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
CCC8	25.4	26.5	31.5	43.5	28.8	32.3	43.2	50.3	54.9	25.4	15.8	8.6
CP01	21.6			81.5	25.0	32.3			30.6	27.4	6.1	76.2
CP02	25.0	31.4	58.4	39.3	29.4	55.7	62.5	45.6	42.2	38.2	25.5	39.9
CP03	37.8	27.5	68.5	59.7	62.7	58.9	64.5	49.7	73.1	44.7	45.4	50.0
CP04	31.6	32.9	66.7	44.2	47.9	80.0	42.2	41.9	31.4	28.6	46.6	36.6
CP05	45.9	29.0	105.5	92.0	77.3	54.5	84.8	42.1	41.4	40.3	28.6	48.4
CP06	78.8	38.7	168.4	49.5	88.3	104.6	66.6	87.0	59.3	33.0	31.6	35.9
CP07	39.8	21.1	72.8	41.6	29.9	51.1	49.1	39.3	30.9	30.4	32.9	26.5
CP08	22.2	40.2	45.8	34.6	57.2	34.7	45.8	38.0	52.5	36.6	46.6	41.4
CP09	30.2	21.5	63.7	47.9	32.8	62.1	55.1	50.0	58.0	43.6	34.5	42.5
CP10	23.9	53.6	78.6	46.0	37.6	29.0	32.0	33.2	32.8	35.6	26.3	28.1
EF		27.1	31.0	19.4	31.4	30.3	15.2	31.7	17.8	15.9	16.6	22.3
GR1			137.9	23.4	11.2					29.4		
GR2	81.0	57.6	64.3	79.4	88.2	65.3	45.1	72.8	68.7	45.8	45.6	159.1
HI1	17.2	102.5	23.3	12.8	24.0	82.4		17.7	17.4	19.1		
HI2	35.3	20.5	40.4	27.4	18.5	16.3	20.8	19.9	14.6	20.7	21.8	20.3
I2	29.0	35.3	69.7	66.1	84.1	109.2	73.8	41.8	81.0	42.6	79.7	30.0
I3	32.0	38.2	99.4	43.6	53.3	47.9	28.6	78.2	36.7	47.8	67.8	38.7
I4	20.3	45.0	61.4	100.4	70.9	57.9	67.8	39.7	39.2	35.0	39.4	17.8
I5	21.8	49.9	43.4	23.6	32.8	51.1	20.3	33.3	32.7	37.2	58.8	59.2
I6	17.8	15.4	29.1	36.1	43.2	36.6	32.2	25.6	26.7	19.4	21.9	38.2
I7	14.6	22.9	25.6	26.7	25.9	25.8	26.5	23.7	17.9	32.0	30.7	25.6
I8	26.4	17.2	29.7	29.8	26.0	38.5	19.6	17.9	26.8	15.0	25.8	40.8
I9	17.9	11.8	30.5	36.1	18.7	49.1	22.1	10.6	23.2	20.3	24.8	19.4
I10	41.1	23.4	36.3	59.3	58.1	58.8	28.8	30.9	68.7	133.5	65.6	27.5
I11	13.3	12.3	20.0	21.2	22.3	36.9	13.9	34.8	20.0	18.6	35.1	17.7
I12	25.1	20.8	20.2	27.1	25.6	36.6	37.4	25.5	16.4	26.3	21.4	41.2
I13	24.2	25.0	30.2	34.0	35.7	26.7	27.2	43.1	24.5	28.1	26.3	25.5

(continued)

Table 6-16
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
I14	14.6	15.5	23.3	17.5	25.2	10.7	20.6	12.5	11.5	32.1	14.8	25.6
I15	17.3	13.2	34.3	29.6	24.1	31.1	28.8	41.4	17.3	49.4	20.1	27.2
I16	51.0	49.6	27.4	32.9	28.1	22.6			23.7	21.8	12.1	
I17	26.4	32.2	44.6	56.4	34.4	27.1	37.5	41.8	27.5	35.0	27.8	29.1
I18	41.5	59.8	44.6	36.5	56.0	24.2	42.0	46.7	32.1	31.3	31.3	38.2
IH1	30.7	25.4	37.1	35.0	26.7	8.5	32.1	43.6	42.9	19.0	11.4	
IH3				12.0		6.4	19.2	30.7		27.7		
IH4						71.2		28.5		59.5		
IH5	24.8	25.9	20.9	36.1	19.3	15.1	36.4	42.9	30.7	29.3	13.0	22.9
IH6	29.5	26.5	32.2	27.9	22.7	29.4	35.8	20.8	23.7	28.0	21.3	22.7
IH7	63.3	135.7	101.2	41.9	24.1	59.0	38.0	30.4	23.2	23.4	141.8	17.8
INL		112.5	14.3		7.8	35.3	16.2	15.6	17.2		17.3	22.5
LAC	28.8	19.9	28.8	19.9	12.5	35.2	24.6	9.6	13.1	24.9	34.0	23.8
LB	12.4	22.8	40.3	23.2	23.9	20.3	23.3	42.2	23.3	23.1	18.8	24.4
LQ1	27.0	21.5	50.1	41.1	52.6	59.4	44.7	39.4	37.8	50.8	34.0	31.5
LQ2	20.8	19.1	38.3	35.2	65.0	41.3	28.5	28.1	40.8	19.6	33.9	41.7
LS1	43.4	36.6	72.4	58.4	66.0	50.6	81.5	91.9		41.8	50.0	57.7
LS2	45.9	43.8	54.1	88.9	84.5	55.2	37.0	135.5	59.0	43.2	44.1	52.4
M1					71.0	113.0			73.7	38.1	212.7	17.3
M2		48.0	225.0	84.8	97.7	118.3	82.2	26.8	62.3	36.9	32.9	16.2
MB1	30.7	63.4	102.0	54.6	98.4	70.1	84.3	44.6	46.7	44.6	50.5	32.3
MB2	43.6	27.0	125.8	71.4	92.1	73.0	84.0	69.4	43.1	36.6	53.8	40.2
NB1	30.0	106.9	91.0	105.5	63.3	69.7	70.9	55.2	65.1	58.8	45.9	69.2
NB2	30.8	88.1	82.8	84.3	58.7	65.7	88.7	78.1	51.2	40.7	50.7	79.3
NB3	27.8	50.1	47.4	78.4	63.7	98.4	78.1	51.4	70.9	105.9	42.2	21.3
NB4	19.6	3693.3	1205.9	118.0	2711.1	721.0	120.4	48.1	62.9	44.0	170.4	43.3
NB5	55.2	1052.7	828.8	110.0	544.9	393.6	103.2	81.7	75.3	53.4	193.7	52.5
NB6	118.6	2032.6	2596.2	71.0	2292.6	971.4	68.6	72.0	53.2	46.9	612.6	26.1

(continued)

Table 6-16
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
NB7	31.3	56.9	48.9	77.9	59.8	69.9	68.0	39.2	40.2	37.5	39.0	19.9
NB8	53.3	43.8	54.0	89.7	73.4	94.5	70.1	59.2	60.9	60.2	53.4	43.0
NB9	29.0	25.8	64.4	74.2	64.9	83.9	91.1	57.4	44.7	46.2	27.0	30.0
ND2					65.3					56.0	54.0	
ND4										42.4		
NR1	30.6	14.4	19.7	23.9	32.7	30.9	46.0	71.6	26.9	52.7	49.5	30.0
NR3			4575.3	59.6	6280.3	1690.3	36.9	30.2		46.0	5923.3	
NR4	84.3	66.2	135.5	298.2	179.9	136.7	130.9	77.3	83.5	60.6	75.3	47.1
NR5	73.2			89.5		35.3	47.7	83.4	140.2	68.6	61.6	46.6
OS1	41.4	54.7	53.5	65.2	111.3	113.3	43.0	-27.4	77.7	61.3	258.7	54.3
OS3	293.4	45.9	301.0	242.7	52.9	182.5	211.2	57.3	168.9	230.5	81.8	43.4
OS4	36.4	29.9	111.5	61.4	32.9	45.3	69.4	23.3	70.9	24.0	24.2	34.9
OS5	13.8		57.1	38.1			40.4	21.6		44.3	27.1	17.7
OS6	40.0	138.3	17.3	199.4	230.3	51.1	100.0	131.5	95.5	75.2	151.5	50.3
OS7	63.1	82.0	102.0	93.8	96.4	49.4	67.8	67.2	70.0	85.7	50.1	41.0
PB1	66.2	79.7	185.4	110.5	34.6	35.4	58.7	46.4	53.2	46.1	45.7	103.6
PB2	35.1	38.4	58.6	38.1	34.5	36.5	41.9	20.7	26.0	15.8	30.0	55.0
RB1	25.5	33.0	18.3	20.2	25.3	21.8	24.3	14.1	20.5	20.8	28.7	13.8
RB2	16.9	16.1	39.8	13.5	20.0	28.8	11.4	12.5	18.8	19.6	25.7	14.7
RB3	17.1	15.3	19.0	24.8	16.6	28.5	33.6	16.3	18.6	20.3	13.3	15.2
RB4	28.6	100.2	25.9	20.1	31.6	26.1	21.6		19.2	16.8	19.0	8.6
RB5	12.8	16.9	38.3	36.9	23.1	30.6	19.9	20.3	20.1	18.5	19.1	12.1
RB6	10.2	14.5	12.4	14.1	22.3	39.5	27.9	18.4	16.4	51.4	28.6	14.4
RB7	26.4	16.2	21.8	23.7	25.4	16.7	25.3	19.0	18.4	21.7	18.5	15.6
RB8	42.7	212.3	217.3	33.6	242.4	145.7	54.6	23.6	26.8	34.0	348.1	26.3
RB9	21.5	15.7	29.1	28.7	30.4	25.5	14.8	27.2	18.4	19.2	20.3	24.6
SC1	51.9	42.1	96.0	42.5	57.7	86.8	81.1	85.8	56.8	61.2	51.2	65.3
SC2	35.5	46.3	52.3	40.6	52.5	53.0	42.2	49.3	42.2	39.0	45.7	55.3

(continued)

Table 6-16
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
SC3	32.2	33.0	65.3	58.4	41.5	38.2	51.3	41.9	45.1	41.1	32.4	24.3
UL01	23.1	13.9	20.8	12.4	20.5	18.8	33.9	35.9	22.1	19.4	16.7	
UL02	34.6	28.9	21.8	36.7	27.2	17.9	29.8	25.8	21.0	22.5	29.8	25.3
UL03	22.4	19.6	23.3	24.8	23.5	18.9	27.1	19.0	20.6	20.5	27.5	26.2
UL04	29.7	27.2	45.5	27.5	29.4	61.5	35.0	25.7	24.7	24.1	21.8	36.5
UL05	89.0	10.3		13.7	22.7	10.2	12.1	15.5	19.8	14.6	14.1	17.7
UL06	27.8	22.4	19.2	28.6	26.2	11.9	17.1	31.7	21.8	22.9	24.8	22.5
UL07	36.1	36.2	17.0	39.5	38.4	19.5	32.2	28.9	17.3	25.0	27.7	29.3
UL08		10.3	18.2	14.5	23.6	26.6	16.4	17.2	11.8	20.9	19.9	14.0
UL09	12.8	13.3	24.3	18.4	21.2	17.3	14.5	9.3	20.9	17.1	21.4	16.7
UL10	32.0	40.0	26.4	29.3	33.6	17.3	22.0	28.9	25.0	25.2	24.9	23.4
UL11			32.6	23.5	14.2	26.4	21.3	16.9	38.1	15.7		
GMI1	13.0				13.8	16.2	9.5	8.6	11.4	12.1	20.9	
GMI2	13.0	51.6	23.6	22.2	27.0	21.0	22.8	20.1	13.3	23.4	20.1	22.1
GMI3	35.5	63.1	17.9	11.2	27.2	21.8	41.3	20.0	23.8	16.0	28.7	25.4
GMI4	23.2	53.7	14.6	28.0	26.2	29.9	51.6	60.2	21.5	37.0	20.3	26.5
GMI5	32.7	39.2	22.9	26.2	35.9	11.0	30.8	20.1	37.6	9.8	19.3	21.6
GMI6	34.3	203.6	73.7	34.1	10.0	22.3	22.9	15.7	14.0	22.0	150.7	29.7
GMI7	39.9	36.8	37.4	26.5	16.2	27.7	12.3	6.2	9.9	16.2	27.1	14.0
GMI8	35.1	45.0	33.3	33.9	29.3	32.6	43.5	22.7	18.9	21.7	50.0	46.3
GMI9	44.1	71.4	55.6	60.6	47.2	32.5	54.3	25.2	46.7	28.4	63.6	13.0
GMO4	13.4	15.1	12.9	11.0	22.4	7.5	6.6	12.0	8.6	9.1	15.5	27.9
GMO5	12.3	16.7	13.7	15.8	13.4	10.8	9.3	10.4	18.4	10.8	10.8	18.9
GMO6	23.6	17.0	13.4	9.2	14.1	14.5	10.7	14.4	8.7	10.3	13.1	12.8
GMO7	13.5	9.8	12.1	13.0	19.2	21.9	23.9	20.6	11.0	11.7	13.9	11.7

(continued)

Table 6-16
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
Aransas Bay	22.1	33.4	41.0	39.4	40.2	36.0	29.1	34.0	33.3	35.0	27.2	27.3
Copano Bay	37.3	32.9	80.9	50.5	51.5	58.9	55.9	47.4	46.9	36.7	35.3	38.8
St Charles	33.9	39.6	58.8	49.5	47.0	45.6	46.7	45.6	43.6	40.1	39.1	39.8
Mesquite	31.6	44.7	93.4	64.6	76.0	61.9	80.8	48.8	39.9	41.5	42.8	38.1
Redfish	22.0	50.9	50.5	24.4	51.5	42.7	26.1	19.6	19.6	25.2	61.6	16.4
Corpus Christi	25.9	54.4	74.6	46.7	126.3	96.4	29.6	32.0	30.4	30.3	68.8	32.5
CCSC (bay)	23.8	53.3	114.1	49.1	115.6	120.9	29.4	30.7	35.4	28.0	99.2	27.4
Inner Harbor	37.1	53.4	47.8	30.6	23.2	31.6	32.3	29.9	30.1	31.1	46.9	21.1
Nueces Bay	37.4	985.6	443.8	96.1	690.4	274.7	92.1	63.7	64.2	60.9	102.1	47.9
Aransas Pass	28.7	81.0	35.2	23.1	34.9	58.3	23.2	19.8	22.8	32.7	59.7	29.3
Causeway N	16.9	15.8	22.5	28.0	17.1	35.1	17.8	25.9	21.0	26.0	24.2	14.3
Causeway S	32.1	23.3	31.1	34.0	33.8	39.2	31.9	29.6	34.1	49.9	33.5	29.8
Laguna (King)	28.6	19.9	24.1	24.7	25.9	22.3	22.4	25.0	20.4	24.3	23.2	23.9
Laguna (Baffin)	39.6	47.2	38.9	41.9	39.5	24.6	39.8	44.2	27.8	29.4	23.7	33.7
Baffin Bay	49.9	57.4	65.1	71.8	62.9	64.3	49.5	57.3	52.2	49.7	45.6	66.4
GOM inlet	26.0	53.8	28.9	20.8	18.1	18.1	18.3	14.6	16.6	13.5	39.1	18.1

Table 6-17
Monthly average values for period-of-record by hydrographic segment and principal bay
Water quality parameter WQTOC

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
A1				5.4								
A2		23.0	30.7	38.2	12.1	17.5	29.0	20.0		17.0	18.0	16.5
A3	25.0	17.5	13.2	9.0	15.7	7.7	26.0	19.5		9.6	15.5	16.8
A4	4.0		4.0		4.5		4.5		4.8		4.5	
A5				9.6								
A12	18.0	24.4	17.6	8.4	16.5	8.8	25.0	27.6		10.4	12.5	11.8
AL2	10.0		10.0	12.0	9.8		10.0		14.3		8.0	
AR1	10.5	6.8	7.5	8.3	7.3	7.0	24.0	9.8	9.5	11.0	6.2	16.7
BF1	9.7	10.0	11.1	10.6	9.0	20.5	11.6	9.8	10.7	7.9	9.7	20.5
BF2		9.0	9.5			11.0				8.6		
BF3	7.4	8.0		9.5	9.1	11.5	11.4	9.3	13.3	7.1	9.0	
C02	3.0	2.3		2.7	9.2		18.3	4.5	7.0	5.0	6.6	
C03	10.0	5.5	9.5		8.1	14.0		6.4		8.5		
C05		8.8	8.7	8.6	10.2	9.4	33.0	15.0	14.0	9.3	9.6	11.2
C06		23.0	19.5	16.5	19.0	15.3	32.5	24.0		13.0	12.0	17.0
C07	13.0	12.7	8.5	8.6	9.5	13.6	11.1	12.1	6.0	12.9	6.2	17.3
C09		5.0	4.7	4.2		5.7				6.4		
C10	6.6	18.8	5.9	11.2	6.9	14.4	12.5	16.1	6.8	11.3	6.0	17.5
C11	8.8	14.1	7.2	8.2	9.0	12.2	17.5	18.5	7.0	12.3	7.3	13.9
C12	10.2	24.5	5.6	10.8	8.4	11.4	12.7	16.3	6.0	14.4	5.5	20.0
C14	8.1	17.0	7.9	9.5	9.1	14.0	7.3	22.0	9.6	18.5	6.4	15.8
C15	8.9	6.4	5.8	7.9	6.7	9.4	11.4	7.4	7.3	8.8	5.4	11.1
C17	3.6	9.6	8.1	6.0	7.9	10.4	14.0	28.0	6.9	8.1	6.0	11.1
C21	12.0	17.3	4.2		10.2	14.3	21.3	13.3		12.4	10.0	17.3
C22		22.5	14.5	19.0	14.5		32.0	20.0		16.0	14.0	19.7
C24	3.7		4.0		7.0		6.0		6.0		5.4	
CB	20.4	19.7	23.2	30.9	18.5	9.8	25.7	16.5		9.8	15.5	14.6

(continued)

Table 6-17
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
CCC1	3.3	4.3	3.9	2.9	5.0	2.2	2.2		2.3	3.3	2.8	2.6
CCC2							8.0		14.5			
CCC3	8.6		4.9		5.7		2.5	6.9	2.8		3.3	
CCC4	11.0						8.3					
CCC5	8.1		3.2		3.4		3.8		4.0		3.0	
CCC6	5.8	3.1		3.4	4.3	7.7	6.5	4.1	4.5	3.6	7.2	
CCC7	11.1		6.6	9.4	9.3	18.9	12.8	17.0	5.6	18.1	7.6	15.5
CCC8	4.8	3.2		4.1	5.7	5.5	6.6	4.7	5.0	3.3	6.4	
CP02				5.1	21.0							
CP03	26.0	25.5	29.3	16.8	23.6	19.2	44.5	19.6	19.5	16.9		20.5
CP05		28.0	35.3	19.5	20.7	33.0	39.0	37.5		11.7		21.0
CP07		106.0	16.4	8.6	11.6	17.7	29.0	26.3	13.3	11.0		17.1
CP09						7.9				9.7		
CP10	13.0	11.0	15.2	9.3	10.9	13.3	11.5	8.3	9.7	8.9	10.5	11.2
GR2				18.0						13.0		
HI1								7.0				
I1		0.0										
I2		0.0										
I3	19.8	16.2	14.9	23.7	11.3	14.4	27.0	19.5		12.0	11.0	22.0
I4	13.6		13.8									
I5	13.1			4.5		5.5						
I6	5.8	3.0	3.5	2.6	7.6	8.5	4.2	2.9	6.0	5.0	3.8	9.5
I7	8.7		3.5		7.7	7.6	5.0		3.5		4.2	
I9	4.0	6.6	5.5	4.9	10.9	10.9	13.9		8.0	6.9	6.2	4.9
I10											0.5	
I11											1.0	
I12	4.7	4.0	4.0	9.1	8.4	17.0	17.0	7.5	9.7	7.1	5.9	
I13	5.6		6.2		7.6		7.2		7.0		7.4	9.2

(continued)

Table 6-17
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
I15	6.0		7.0		7.8		7.5				7.0	9.4
I16											0.7	11.8
I17	5.8	6.7		8.8	8.0		10.4	6.9	12.0	8.9	9.0	13.7
I18											0.5	14.6
IH1	7.3	4.8	505.5	6.8	5.4	5.7	15.8	4.7	6.4	6.8	9.2	
IH2								3.0				
IH3			5950.0					3.5				
IH4								2.8				
IH5	4.8	4.9	504.5	5.8	5.9	6.0	13.0	4.0	5.3	5.1	6.6	
IH6	4.6	4.0	736.3	5.5	8.7	6.5	13.3	3.4	3.8	4.4	7.0	
IH7	11.0	5.8	452.4	7.6	10.8	5.5		3.9		5.4	5.5	2.8
INL							10.5					
LAC	22.8			3.0	3.6	2.6	5.7					
LQ1												0.7
LQ2	2.4	3.9	4.0	3.5	5.9	4.8	13.4	3.6	4.5	3.3	2.2	6.4
MB1	3.0	6.0	5.2	7.7	2.0	7.5	7.2	7.5	7.1	5.2	7.0	3.0
NB3	6.0		5.7		5.8		6.7		5.8		6.8	
NB4	6.0		5.5	0.0	5.7		5.4		5.8		5.4	
NB5	6.6	10.4	7.2	8.2	8.0	46.6	11.1	7.6	8.9	8.6	6.8	12.3
NB6	33.4	22.5	19.5	20.2	17.0	23.0	40.0	25.0	17.5	23.1	19.0	21.0
NB7	5.8	4.8	4.0	4.8	5.8		8.8	3.6	8.4	8.0	3.0	8.8
ND2		5.5	3.5	5.8	9.7	3.1				5.9	4.9	3.5
NR1					13.5							
NR4	11.0	11.4	14.9	15.9	11.4	10.9	9.2	16.5	14.4	16.1	13.5	9.5
NR5	24.5	41.5	18.0	11.7	22.0	26.3		20.6		11.9	19.5	20.5
OS1	6.3	13.3		15.4			20.0	24.3	18.0	13.7	17.0	
OS3		10.0			12.5		26.0		12.0			
OS6	5.5	6.0		11.0	12.0		7.0	9.6	5.5	7.4	6.3	5.0

(continued)

Table 6-17
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
OS7	5.3	4.2		9.9	11.3		14.0	7.3	7.8	9.8	6.6	7.5
PB1	8.3	7.9	6.0	10.4	15.0	10.5	23.5	11.0	17.0	9.8	7.3	12.0
RB3	5.7	2.8	6.0	10.0	4.7	8.0	11.3	4.6	7.0	6.3	4.3	4.0
RB5		29.0	15.0		14.0	16.5		12.5		16.0	13.5	20.5
RB6		24.0	12.0	15.0	17.0	20.5	34.5	16.5		17.0	15.0	28.0
RB8	2.7	2.0	2.4	3.3	2.6	4.2	6.4	2.8	3.5	4.5	3.3	3.0
RB9							8.3					
SC2				6.1	20.5							
SC3	11.8	8.2	7.8	10.4	9.9	9.0	13.6	11.2	8.9	11.1	5.9	10.5
UL03				9.6								
UL04	4.4	4.3	4.0	6.0	5.0	9.0	10.2	6.1	7.7	4.3	5.1	
UL11			6.3			12.0						
GMI4	5.5	1.8		11.0	4.8		18.3	5.2	4.0	6.0	4.8	
GMI6	7.5	2.7	2.5	3.1	3.0	2.8	7.5	2.4	7.5	3.3	5.1	3.8
Aransas Bay	11.8	17.9	14.5	14.0	10.8	11.3	17.1	18.5	8.4	11.5	9.6	13.3
Copano Bay	19.5	42.6	24.1	11.8	17.5	18.2	31.0	22.9	14.2	11.6	10.5	17.5
St Charles	11.8	8.2	7.8	8.3	15.2	9.0	13.6	11.2	8.9	11.1	5.9	10.5
Mesquite	11.7	12.8	14.2	19.3	10.3	8.7	16.4	12.0	7.1	7.5	11.3	8.8
Redfish	4.2	14.4	8.9	9.4	9.6	12.3	15.1	9.1	5.2	11.0	9.0	13.9
Corpus Christi	8.1	13.8	9.4	10.0	10.3	13.1	19.9	16.3	8.2	11.6	8.4	15.6
CCSC (bay)	8.9	3.1	4.9	6.4	5.7	13.3	6.8	9.3	4.2	10.9	5.3	15.5
Inner Harbor	6.9	4.8	1629.7	6.4	7.7	5.9	14.0	3.6	5.2	5.4	7.1	2.8
Nueces Bay	6.2	10.4	6.1	4.1	6.5	46.6	7.7	7.6	6.8	8.6	6.3	12.3
Aransas Pass	13.0	4.3	3.9	2.9	4.3	2.4	6.1	7.0	2.3	3.3	2.8	2.6
Causeway N	3.8	6.6	4.8	4.9	8.9	10.9	9.9		7.0	6.9	5.8	4.9
Causeway S	4.4	4.3	4.0	6.0	5.0	9.0	10.2	6.1	7.7	4.3	2.8	
Laguna (King)	5.4	4.0	5.9	9.4	7.9	14.5	10.6	7.5	8.3	7.1	5.3	9.3
Laguna (Baffin)	5.8	6.7		8.8	8.0		10.4	6.9	12.0	8.9	3.4	13.4
Baffin Bay	9.0	9.0	10.2	12.5	9.3	14.3	11.0	9.6	12.8	9.1	8.9	20.5
GOM inlet	7.5	2.7	2.5	3.1	3.0	2.8	7.5	2.4	7.5	3.3	5.1	3.8

Table 6-18
Monthly average values for period-of-record by hydrographic segment and principal bay
Water quality parameter WQCHLA

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
A2					50.0							
A4	7.2		4.0		5.2		1171.7		4.5		5.0	
A12	171.6											
AL2	8.8		17.0		8.0		7.8		6.0		11.2	
AR1	16.2	22.5	11.7	9.4	9.5		11.3	18.0	31.4	11.4	7.4	
BF1	13.8	11.4	9.9	10.2	9.1	25.0	16.6	13.2	12.7	18.0	11.5	26.0
BF2				43.0			30.0			18.3		
BF3	16.1	10.8		13.4	11.6		15.3	11.1	14.3	14.3	9.0	
C02	5.9	5.5	4.7	10.7	5.6	6.0	5.0	7.9	4.5	8.6	2.1	1.5
C03	5.4	5.7	9.0	3.1	7.8	3.0	6.4	9.3	4.7	5.7	4.5	6.8
C04	7.0	3.8	3.9	7.0	7.3	9.8	10.2	7.3	8.7	5.9	5.3	1.7
C05							27.7					
C07	28.4	1.7	5.8		5.9	0.0	5.9		6.5	1.8	3.3	
C08	7.9	2.2	2.4	4.4	5.7	7.4	8.8	6.5	5.3	4.1	5.0	1.4
C10	4.2	2.5	3.6	3.1	2.8	3.1	6.5	4.4	5.3	3.3	3.8	2.1
C11	4.7	2.5	10.6	0.2	5.9	0.0	8.0	2.6	4.0	5.2	3.0	
C12	9.7	3.9	4.9	2.1	5.6	13.2	3.9	2.2	3.3	2.3	3.8	1.9
C14	5.4	2.3	5.2	2.6	6.4	6.4	8.1	7.7	4.5	7.9	3.9	2.2
C15	9.8	2.0	8.4	10.2	4.5	4.0	10.1	6.9	4.9	7.2	5.0	2.7
C17	15.1	2.9	3.9	2.6	5.3	5.4	7.5	5.8	3.8	4.2	5.2	2.1
C18							22.7					
C20	4.5	2.6	2.2		4.3	6.6	8.4	7.7		6.3	3.2	1.4
C21	2.5	2.0	7.0		1.0	0.0	3.0			1.8		
C23	3.2		3.5	4.3	4.2	6.9	6.8	7.2	4.1	5.1	5.6	1.7
C24	5.3		3.8	2.1	3.4	7.4	3.9	6.0	2.8	4.3	4.5	3.4
CB	39.6			0.4	2.7							
CBY1			8.9	10.9		9.5	6.3					

(continued)

Table 6-18
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
CCC1	4.1	3.9	6.3	5.6	5.7	3.4	6.6	1.3	2.9	4.0	3.6	1.7
CCC3	7.4	4.2	15.4	5.6	6.2	3.9	7.2	2.6	2.3	4.4	4.1	1.7
CCC4							16.3					
CCC5	4.6	2.1	3.8		5.0	9.6	5.7	6.6	4.7	6.1	3.5	3.2
CCC6	2.8	3.2		11.7	4.9	2.3	12.3	4.8	2.5	5.0	1.3	
CCC7	17.7	5.3	7.6	8.1	6.5	8.1	5.9	5.6	5.0	4.5	4.4	2.7
CCC8	9.4	4.9	7.4	12.8	6.6	7.9	8.8	12.1	8.1	7.9	6.6	5.5
CP02				0.3	32.6							
CP03				0.2	39.3							
CP05					33.2							
CP07					34.3							
CP10	3.5	5.2	14.3	4.3	14.8		2.8	12.2		8.3	4.5	2.6
GR2										0.7		
I2			10.5			19.0						
I3					57.0							
I5	104.3			0.4	12.4							
I6	7.2	1.4		4.2	4.4	0.0	7.0	1.8	0.0	11.2	0.9	0.0
I7	36.9		3.7		4.0		670.0		3.0		4.7	
I9	4.9	1.2	5.3	11.7	7.1	4.2	4.5	1.4	2.7	4.1	2.9	1.9
I12	4.1	2.1	0.0	6.9	3.3	20.0	9.3	8.4	3.3	8.0	5.8	
I13	2.6		5.4		2.6		3.4		2.7		4.4	
I15	3.8		7.3		2.5		6.5				9.3	
I17	10.9	7.8		16.4	7.4		11.5	5.8	13.3	13.3	6.1	
IH1	18.9	14.0		11.5	9.7	50.0	56.8	62.8	54.7	14.8	9.8	
IH3							26.5	8.0				
IH4								10.0				
IH5	19.7	15.7	24.5	10.0	9.0	8.5	22.0	28.7	13.8	15.3	10.9	
IH6	17.9	13.7		9.3	8.4	10.0	23.7	9.7	6.3	10.3	6.0	

(continued)

Table 6-18
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
IH7				0.3			32.3	1.7				
LAC							17.5					
LQ1							21.0					
LQ2	3.0	2.2		4.9	6.4	2.5	13.0	2.8	2.5	4.8	1.4	0.0
MB1	8.3	25.0	6.6	7.0	14.0	10.8	7.5	0.0	9.9	10.9	6.3	8.5
MB2			12.1	12.8		15.8	7.6					
NB1	10.9	17.9	7.1	8.1	13.9	10.4	10.5	11.9	8.7	13.0	12.9	7.7
NB2	16.1	11.8	6.1	5.4	12.6	12.0	8.9	14.8	7.7	10.1	15.6	8.9
NB3	12.5	4.7	7.5	14.4	9.0	15.0	8.9	12.4	10.2	20.7	13.1	14.1
NB4	9.9	12.7	6.2	7.5	10.2	6.4	8.9	6.7	6.7	7.3	11.3	4.9
NB5	9.0	7.4	8.0	7.8	8.8	7.8	13.1	9.1	6.0	11.0	8.3	4.1
NB6	26.6	5.2	15.9	4.2	17.6	9.3	12.2	15.2	9.0	10.1	17.2	9.9
NB7	6.0	6.1		7.8	7.9		29.3	8.8	11.0	15.5	5.8	5.0
NB8	2.7		5.2	4.6	4.2	3.1	15.7	8.3		6.5	6.1	2.8
NB9			11.1	6.0			9.5	12.8				
NR1			13.5			12.0						
NR4	67.2	62.1	42.4	52.3	65.9	68.1	61.4	56.3	51.1	64.3	32.9	33.3
OS1	106.1	66.6		111.1			59.1	184.4	107.5	66.8	31.2	
OS3	21.3	10.0		34.3	6.5		20.0		3.5	16.4		
OS6	3.5	8.6		19.9	18.7		38.0	15.0	8.4	5.9	11.2	4.0
OS7	30.9	12.4		11.6	10.9		12.8	9.8	24.3	14.0	13.9	
PB1	6.4	6.1	8.5	7.2	12.0		6.3	4.2	7.0	9.3	3.6	4.5
RB3	3.6	3.4	5.5	8.5	6.0	8.5	23.0	14.8	5.7	10.9	5.8	6.5
RB8	3.9	1.7	3.3	6.2	5.6	8.8	4.6	2.5	4.1	5.5	3.8	0.9
SC2	20.5			0.3	32.7							
SC3	1.5	3.9	2.3	3.5	5.3	18.8	1.3	15.5	2.8	10.6	0.0	0.3
UL04	5.5	0.9	0.0	6.1	4.6	15.0	11.4	8.0	4.3	7.1	0.8	
GMI4	4.0	1.8	4.5	4.0	13.7		24.5	6.0	24.0	5.3	5.0	
GMI6	6.8	1.4	3.5	3.7	5.3	3.0	3.3	0.0	0.0	4.0		

(continued)

Table 6-18
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
Aransas Bay	48.3	7.8	5.6	16.4	16.3		396.6	5.8	8.9	13.3	6.8	
Copano Bay	3.5	5.2	14.3	1.6	30.8		2.8	12.2		8.3	4.5	2.6
St Charles	11.0	3.9	2.3	1.9	19.0	18.8	1.3	15.5	2.8	10.6	0.0	0.3
Mesquite	23.9	25.0	9.4	6.7	8.3	13.3	7.5	0.0	9.9	10.9	6.3	8.5
Redfish	3.8	2.6	4.4	7.3	5.8	8.7	13.8	8.7	4.9	8.2	4.8	3.7
Corpus Christi	7.8	3.1	5.1	4.2	5.2	4.5	9.6	6.6	5.1	5.0	4.1	2.3
CCSC (bay)	8.1	3.7	8.9	8.5	5.6	6.0	9.5	4.9	3.6	5.0	3.3	2.5
Inner Harbor	18.8	14.5	24.5	7.8	9.0	22.8	32.3	20.1	24.9	13.4	8.9	
Nueces Bay	10.0	9.1	6.6	7.9	8.9	8.8	11.1	10.2	7.6	11.1	10.9	7.0
Aransas Pass	4.1	3.9	6.3	5.6	5.7	3.4	12.1	1.3	2.9	4.0	3.6	1.7
Causeway N	5.1	1.2	4.5	6.9	5.3	5.8	4.2	3.7	2.7	4.2	3.7	2.7
Causeway S	5.5	0.9	0.0	6.1	4.6	15.0	11.4	8.0	4.3	7.1	0.8	
Laguna (King)	3.5	2.1	4.2	6.9	2.8	20.0	6.4	8.4	3.0	8.0	6.5	
Laguna (Baffin)	10.9	7.8		16.4	7.4		11.5	5.8	13.3	13.3	6.1	
Baffin Bay	12.9	11.1	13.4	22.2	9.6	25.0	17.4	12.2	11.0	12.8	10.6	26.0
GOM inlet	6.8	1.4	3.5	3.7	5.3	3.0	3.3	0.0	0.0	4.0		

Table 6-19
Monthly average values for period-of-record by hydrographic segment and principal bay
Water quality parameter WQPHEO

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
A1	15.3	15.0	15.9	15.3	15.4	13.8	12.2	22.7	21.8	18.9	16.1	16.4
A2	15.2	16.5	18.4	16.5	11.8	17.7	15.2	21.3	18.1	18.0	16.2	14.4
AR1		0.0		0.8	3.7			1.2	4.5	0.0	4.8	
BF1	0.5	3.4	0.0	3.3	1.8	0.0	5.3	3.2	0.0	2.8	1.8	
BF3	1.6	2.3		6.7	2.0		0.0	1.1	0.0	3.2	1.8	
C02	0.8	1.1	1.8	0.4	1.7	1.4	3.0	2.8	0.0	0.7	0.9	1.1
C03	1.3	1.8	1.7	0.8	1.3	1.1	1.1	2.2	5.6	0.9	1.5	1.4
C04	1.2	2.5	2.1	1.2	2.2	2.6	2.0	1.7	4.4	1.8	1.6	0.8
C08	2.3	1.4	1.5	1.6	1.9	1.3	2.1	1.5	5.3	0.8	1.4	0.6
C10	1.7	2.5	1.1	2.3	1.5	3.4	1.8	1.5		1.3	1.6	0.9
C12	1.6	2.0	0.7	1.7	2.1	1.2	0.4	0.7	2.6	2.7	0.9	0.6
C14	1.7	2.2	0.8	1.3	2.5	1.3	2.2	1.9	4.7	2.9	1.0	0.8
C15	2.9	0.8	6.0	19.8	1.1	0.5	4.7	0.8	0.9	3.5	2.4	0.6
C17	1.4	1.9	1.5	1.2	2.2	1.3	2.5	2.1	3.3	2.0	1.2	0.7
C20	0.5	1.7	1.3		2.2	1.5	1.4	2.4		2.6	0.8	0.6
C23	0.9		1.8	1.4	1.4	1.3	1.4	2.1	3.1	1.6	1.2	1.6
C24	2.0		1.8	1.2	1.7	1.4	1.1	1.3		1.4	2.0	1.0
CBY1			1.1	4.6		4.3	2.5					
CCC1	1.4	3.1	1.5	2.1	3.9	0.9	0.4	0.4	2.5	2.2	2.4	0.7
CCC3	2.1	4.5	2.2	2.2	6.1	2.3	0.4	1.0	3.7	2.4	2.5	0.8
CCC5	0.9	1.3	3.9		4.2	11.8	1.7	1.7	7.3	3.2	1.2	1.6
CCC6	0.3	0.4		1.0	0.3	0.0	21.7	0.8	0.0	0.8	1.3	
CCC7	1.5	3.4	2.1	2.5	2.4	1.7	3.5	2.0	3.6	2.6	1.5	0.9
CCC8	2.7	1.5	3.0	1.0	1.3	1.2	6.3	1.5	1.7	1.5	2.4	1.4
CP10	0.6	3.4		0.6	4.0		0.5	4.0		1.9	0.0	1.9
I6	0.3	0.1		2.1	0.7	0.0	6.7	0.3	0.0	4.0	0.7	0.0
I9	1.8	1.2	1.8	1.9	1.2	2.5	1.0	0.7	2.9	3.9	1.4	1.2

(continued)

Table 6-19
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
I12	0.3	0.0	0.0	2.6	0.3	0.0	0.6	1.3	0.0	2.5	2.3	
I17	0.0	0.9		6.0	2.2		0.0	1.6	0.0	2.0	1.0	
IH1	1.9	2.2		6.3	1.0	0.0	5.9	2.0	1.1	2.9	3.4	
IH3								0.0				
IH4								0.0				
IH5	1.1	1.2		3.6	2.4	0.0	4.8	1.9	0.5	1.2	2.8	
IH6	2.6	1.8		0.4	1.0	0.0	1.5	2.2	0.0	2.6	5.9	
IH7								0.0				
LQ2	0.0	0.2		0.3	0.6	0.0	20.0	1.2	0.0	0.6	0.5	0.0
MB1	1.8	0.0	0.8	7.4	1.4	5.5	4.2	0.0	2.4	0.0	0.0	2.0
MB2			5.4	14.4		11.0	2.6					
NB1	4.5	19.9	8.5	2.8	9.5	3.3	10.4	3.8	6.2	8.3	5.4	3.0
NB2	6.2	20.9	10.2	4.1	6.4	5.9	8.7	4.4	5.9	4.9	5.1	3.6
NB3	4.9	7.1	4.9	2.1	7.5	6.4	13.8	6.8	4.1	16.0	9.3	3.6
NB4	2.0	16.0	12.4	5.6	6.4	2.3	11.4	1.8	4.6	6.3	6.5	2.5
NB5	3.6	4.7	9.3	3.1	6.3	5.9	9.2	2.2	2.0	8.4	2.5	1.5
NB6	5.3	4.1	4.9	3.5	9.0	1.7	6.8	5.2	4.7	10.6	4.7	2.1
NB7	0.0	1.2		28.8	0.3		3.0	0.0	1.0	1.0	1.1	0.0
NB8	1.3		3.7	2.0	2.3	0.6	8.6	2.4		3.1	1.6	1.0
NB9			10.1	1.5			14.4	4.2				
NR4	3.6	6.8	4.9	8.4	9.6	10.8	11.1	4.0	5.2	4.9	3.4	4.5
OS1		8.2		86.1				26.2	8.9	14.5	1.8	
OS3		0.0							0.0			
OS6	0.0	8.4		10.1	2.8		1.2	3.7	10.1	2.3	2.2	0.0
OS7	1.3	2.6		4.5	2.3			2.6	3.0	6.4	2.7	
PB1	5.0	2.8		9.9	1.7			1.0	0.0	0.6	1.2	0.0
RB3	5.0	1.8		5.0	1.4	0.0		1.0	0.0	0.6	0.5	0.0
RB8	0.3	1.3	1.8	0.0	0.2	1.4	0.6	1.1	2.5	3.2	1.1	0.4
SC3	1.2	1.5	0.8	3.7	0.4	0.3	0.0	2.7	0.0	0.5	1.0	0.0

(continued)

Table 6-19
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
UL04	0.6	1.0	2.5	1.8	0.5	0.0	0.0	2.0	0.0	4.1	0.9	
GMI4		0.0			1.7			0.0	0.0		0.0	
GMI6		2.8		0.3	0.0	0.0		0.4	0.0	0.0		
Aransas Bay	0.0	0.9		6.0	2.2		0.0	1.6	0.0	2.0	1.0	
Copano Bay	0.6	3.4		0.6	4.0		0.5	4.0		1.9	0.0	1.9
St Charles	1.2	1.5	0.8	3.7	0.4	0.3	0.0	2.7	0.0	0.5	1.0	0.0
Mesquite	1.8	0.0	3.1	10.9	1.4	8.2	3.4	0.0	2.4	0.0	0.0	2.0
Redfish	2.6	1.6	1.8	2.5	0.8	0.7	0.6	1.1	1.2	1.9	0.8	0.2
Corpus Christi	1.3	1.9	1.5	1.3	1.9	1.7	1.9	2.0	3.8	1.6	1.2	0.9
CCSC (bay)	1.2	2.4	2.7	1.9	3.2	3.9	6.8	1.4	3.6	2.3	1.6	1.1
Inner Harbor	1.9	1.7		3.5	1.5	0.0	4.0	1.0	0.5	2.2	4.0	
Nueces Bay	3.6	12.2	8.1	3.4	5.8	4.2	10.3	3.5	4.1	7.7	5.0	2.4
Aransas Pass	1.4	3.1	1.5	2.1	3.9	0.9	0.4	0.4	2.5	2.2	2.4	0.7
Causeway N	1.9	1.2	1.8	1.5	1.4	1.9	1.0	1.0	2.9	2.6	1.7	1.1
Causeway S	0.6	1.0	2.5	1.8	0.5	0.0	0.0	2.0	0.0	4.1	0.9	
Laguna (King)	0.3	0.0	0.0	2.6	0.3	0.0	0.6	1.3	0.0	2.5	2.3	
Laguna (Baffin)	0.0	0.9		6.0	2.2		0.0	1.6	0.0	2.0	1.0	
Baffin Bay	1.1	2.9	0.0	5.0	1.9	0.0	2.6	2.1	0.0	3.0	1.8	
GOM inlet		2.8		0.3	0.0	0.0		0.4	0.0	0.0		

Table 6-20
Monthly average values for period-of-record by hydrographic segment and principal bay
Water quality parameter WQFCOLI

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
A1	3.3	75.4	3.2	2.6	2.0	2.0	2.0	27.0		2.4	3.2	3.3
A2	13.3	15.8	2.7	2.0		2.0	2.0			2.9	7.1	8.8
A3	2.0	3.7	3.1	2.8	3.8	2.0	2.0	24.7	2.0	3.1	117.9	2.8
A4	2.6	3.5	7.2	2.0	2.0	2.0		36.0		2.0	11.7	5.0
A5	4.9	2.0	2.3	2.4	1.3	2.0	2.0	8.7		2.0	5.1	2.0
A6	16.1	2.0	5.9	2.0	2.0	2.0	2.0	12.0		2.2	9.0	162.4
A8	3.9	6.7	6.6	3.6		2.0	2.0	111.0		2.0	7.1	4.3
A10	3.0	2.6	2.4	2.0	2.0	2.0	2.0	17.5	2.0	3.2	2.8	3.6
A12	2.0	2.0	2.6	1.7	2.7	2.0	2.0	19.3		2.0	5.0	2.2
A13	7.2	2.0	2.0	2.0		2.0	2.0	12.5		2.0	15.3	2.0
AR1	75.0	5.0	4.0	934.2	9.7		1.0	3000.0	10.0	382.5	8.7	80.0
BF1	1.0	0.0		2.0	0.7		1.3	3.0		0.5	1.0	
BF2				6.0			1.5			5.0		
BF3	0.7	7.5		2.6	1.0		1.3	3.0		0.5	0.5	
C01	345.4	11014.8	240.6	238.0	155.7	114.8	200.1	66.2	13799.5	88.2	9775.5	10.4
C02	2.5	5.0	50.9	54.6	17.3	78.6	195.3	57.2	4.3	18.6	27.4	44.2
C03	280.7	15.0	767.9	21.8	49.2	15.8	15467.0	35.5	78.1	4509.7	55.0	101.7
C05						3.0				13.0		
C09	2.0	2.0	2.5		2.0	8.3	2.0		2.0	2.6	3.4	3.0
C12	2.3	2.2	2.0	1.3	1.8	1.8	2.0		2.0	1.8	3.6	3.8
C15	5.0	8.1	17.4	23.5	7.9	164.2	27.7	27.2	6.0	621.7	8.8	8.7
C17	5.0	4.1	2.6	1.5	1.7	1.7	2.0		1.5	2.4	2.0	3.8
C19	2.0	2.7	2.0		2.0	2.0	3.5			2.0	14.7	2.0
C20	2.0	2.4	2.5	2.0	2.0	2.0	2.0			2.0	13.0	2.0
CB				0.5	1.3					2.0		
CCC2					4.0	5.3	2.0					
CCC3	4.9	13.0	2.6	5.0	2.0	1.8	1.3		1.0	2.0	2.4	3.5

(continued)

Table 6-20
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
CCC4	2.0	2.0	2.0		2.0	2.0	2.0			2.0	51.7	2.5
CCC6		0.0		6.7	1.0			1.0		1.3	1.0	
CCC8	380.1	27.8	192.2	18.5	56.3	152.4	167.1	30.6	37854.2	40.8	19.8	8.7
CP02	23.2	22.0	18.4	1.3	1.3		2.0			39.3	62.3	9.0
CP03	18.8	3.1	92.9	14.0	1.6	1.6	11.7			56.7	69.0	32.2
CP04	3.0	2.3	31.5	2.9	2.0	2.0	2.0			6.3	9.2	7.3
CP05	16.3	2.0	9.4	1.6	1.3		12.5			1.8	15.1	6.0
CP06	2.0		102.9	5.7			3.0			103.0	2.0	4.0
CP07				1.5	4.0	1.5				10.5		
CP10	3.4	2.4	7.8	2.1	1.7		3.0	1.3		18.5	9.2	4.8
GR2										200.0		
I2			2.0			2.0						
I4	9.2	5.0	6.3	3.5		2.0	2.0	134.5		2.4	17.4	10.3
I5				0.5	0.7							
I6	2.9	17.6	2.0	3.8	3.6	2.0	1.2	9.5	2.0	2.1	2.2	1.9
I7					1.0	1.7						
I9	17.5			105.0			6.0			3.3		
I10			206.7	24.7	28.1	46.2	15.9	91.1	45.2	86.8		
I12	0.7	0.0		4.6						0.5	0.0	
I13					2.0		2.0					
I17	1.0	0.0		4.0	1.0		1.2	0.7		2.4	0.5	
IH1		5.0		12.8	5.3	23.0	35.0	4.6	21.0	1.0	341.6	
IH3								50.0				
IH4							326.7	1365.0				
IH5		16.0		43.3	105.3		27.4	212.1		2.8	61.0	
IH6		4.3		25.3	2.5		0.0	2120.5		2.7	105.0	
IH7		17.3	493.7		62.3	337.8	258.1	3339.7	1040.7	162.5	75.0	
INL					2.0	2.0						

(continued)

Table 6-20
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
LQ1	3.0		38.5			0.0						
LQ2	0.0	30.0	28.5	4.3	0.0	4.3	6.0	0.0		0.7		
M2	2.8	3.0	268.3	5.8		13.7				8.7	5.0	176.0
MB1	23.3	8.7	3.5	2.0	21.0		0.0	36.0	0.8	8.0	4.0	10.0
MB2	5.7	2.4	11.4	2.0		2.0		26.8	2.0	2.0	3.5	13.1
NB2	81.0	45.9	52.4	8.0	8.5	14.0				16.4	46.5	3.5
NB4				176.5								
NB5				8.0	0.7		0.0	0.0		16.0	8.7	
NB6	43.5	70.0	40.9	5.5	1.9	2.0		7.5	1.5	16.1	9.9	2.0
NB7	11.6	38.0	125.9	7.3	5.4	602.3	17.0	7.8	6.3	26.4	21.7	4.4
NB8	45.6	59.9	8.3	28.0	2.0					6.0	26.7	6.5
NB9	24.8	13.3	17.6	11.3	3.0	2.0		20.5	5.0	16.0	8.2	2.0
NR1	30.0			42.0	12.0	82.5	1874.0	5.0	11.5	74.8	28.7	
NR4	69.4	257.6	25.8	185.4	231.2	61.9	619.6	58.4	103.6	310.8	17.9	179.8
OS1	796.3	559.3		225.2			448.0	368.5	507.0	316.4	1342.5	
OS3	24.8	215.0		7.3			17.5		260.0	59.3		
OS6		0.0		170.8				21.0		0.0		29.0
OS7	322.5	144.3		12.2	0.0			15.8		4.0		0.0
PB1		5.0	65.0	15.5	47.5			0.0		14.3		
RB1	2.0	54.5	23.0		93.0	43.6	2.5		23.0		33.0	
RB2					2.0	39.7	2.0					
RB3		1.5								4.5		
RB4	24.0	807.0	20.5		13.2	69.2	18.0				43.5	
RB5	2.0	11.0	6.5		11.7	315.7	9.5		885.0		5.0	
RB7		2.0	3.5		5.3	46.0			12.5			
RB8	6.5	3.9	8.6	30.3	3.4	301.8	28.8	5.0	32.1	7.0	14.6	1.4
SC2	55.1	89.8	66.5	13.9	1.3	3.0				10.1	60.2	7.7
SC3	553.3	22.7	107.5	17.3	2.5	0.0	205.0	40.0	17.5	67.6	8.0	2.5

(continued)

Table 6-20
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
UL01			213.0	120.0	99.4	159.6	49.4	30.3	55.2	24.3		
UL04	15.0	5.0		3.3						0.0	1.0	
GMI6				8.7			2.0			1.0		
GMO6			205.3		4.3	26.5	3.5		332.0	14.0		
Aransas Bay	3.9	13.7	4.0	2.6	2.2	2.0	1.9	33.7	2.0	2.5	19.4	4.3
Copano Bay	11.1	6.4	43.8	4.1	2.0	1.7	5.7	1.3		33.7	27.8	10.5
St Charles	304.2	56.2	87.0	15.6	1.9	1.5	205.0	40.0	17.5	38.9	34.1	5.1
Mesquite	14.5	5.6	7.5	1.5	11.2	2.0	0.0	31.4	1.4	4.0	3.8	11.6
Redfish	10.8	165.1	9.8	30.3	7.1	154.5	14.6	5.0	309.9	5.8	21.0	1.4
Corpus Christi	106.3	1840.7	177.8	63.6	38.0	31.1	2645.0	53.0	3470.9	662.3	1647.9	27.4
CCSC (bay)	3.4	5.0	2.3	5.8	1.7	1.9	1.7	1.0	1.0	1.8	18.4	3.0
Inner Harbor		10.6	493.7	27.1	43.8	180.4	129.4	1182.0	530.8	42.2	145.7	
Nueces Bay	63.3	52.9	30.4	55.1	3.7	14.0	0.0	0.0		12.8	27.3	5.0
Aransas Pass					2.0	2.0						
Causeway N	17.5			105.0			6.0			3.3		
Causeway S	15.0	5.0	209.8	49.3	63.7	102.9	32.7	60.7	50.2	37.0	1.0	
Laguna (King)	0.7	0.0		4.6	2.0		2.0			0.5	0.0	
Laguna (Baffin)	1.0	0.0		4.0	1.0		1.2	0.7		2.4	0.5	
Baffin Bay	0.8	3.8		3.5	0.8		1.4	3.0		51.5	0.8	
GOM inlet			205.3	8.7	4.3	26.5	2.8		332.0	7.5		

Table 6-21

Monthly average values (with BDL=0) for period-of-record by hydrographic segment and principal bay

Water quality parameter WQMETCDT

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
BF1								0.0				
C14												0.0
C15								0.0				
CCC2					0.0				0.0			
CCC3			0.0		0.0							
CCC4	0.0		0.0									0.0
CCC5	0.0		0.0									0.0
CCC6	0.0	10.0	0.0		2.3	0.0	3.3	0.0				0.0
CCC7	0.0		0.0									0.0
CCC8			0.0					0.0				0.0
CP10							5.0					
HI1								0.0				
I1		67.0										
I2		66.5										
I3	0.0				0.0							
I4	0.0		4.4		0.0			0.0				
I5	0.0											
I6	0.0											
I10											0.0	
I11											0.0	
I13									0.0			0.0
I14									0.0			
I16									0.0		0.0	0.0
I17												0.0
I18									0.0		0.0	0.0
IH1		10.0						0.0				
IH2			0.0					0.0				0.0

(continued)

Table 6-21
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
IH3			0.0			0.0		0.0				0.0
IH4			0.0					0.0				0.0
IH5		10.0	0.0				3.3	0.0				0.0
IH6		6.7	0.0			0.0		0.0				0.0
IH7		0.0	0.0			0.0		0.0				0.0
LQ1			0.0	5.5								7.3
LQ2			0.0	6.3			5.0		20.0		458.5	1130.4
NB7					4.6			0.0				
OS7								5.0				
RB3								0.0				
RB8								3.3				
GMI6			0.0	0.0		0.0						
GMO6			0.0	0.0		0.0						
Aransas Bay									0.0		0.0	0.0
Copano Bay							5.0					
St Charles												
Mesquite												
Redfish								1.7				
Corpus Christi												0.0
CCSC (bay)	0.0	10.0	0.0		1.2	0.0	3.3	0.0				0.0
Inner Harbor		6.7	0.0			0.0	3.3	0.0				0.0
Nueces Bay												
Aransas Pass								0.0				
Causeway N												
Causeway S											0.0	
Laguna (King)									0.0		0.0	0.0
Laguna (Baffin)									0.0		0.0	0.0
Baffin Bay								0.0				
GOM inlet			0.0	0.0		0.0						

Table 6-22
Monthly average values (with BDL=0) for period-of-record by hydrographic segment and principal bay
Water quality parameter WQMETCUT

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
BF1								7.0				
C14												0.0
C15								0.0				
CCC2					0.0				0.0			
CCC3			0.6		0.0							
CCC4	0.0		0.0									6.3
CCC5	0.0		0.2									0.0
CCC6	0.0		0.0		13.0	0.0	56.7	7.1				0.0
CCC7	0.0		0.0									22.0
CCC8		2.8	2.4					11.0				13.3
CP10							50.0					
HI1								0.0				
I1		0.0										
I2		0.0										
I3	0.0				0.0							
I4	0.0		0.0		0.0			5.3				
I5	0.0											
I6	0.0											
I10											0.0	
I11											0.0	
I13									0.0			0.0
I14									0.0			
I15												0.0
I16									0.0		0.0	0.0
I17												0.0
I18									0.0		0.0	0.0
IH1								6.2				

(continued)

Table 6-22
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
IH2			2.3					10.0				20.0
IH3			2.6			0.0		13.3				23.3
IH4			5.1					20.0				20.0
IH5			3.2				46.7	12.9				25.0
IH6		3.8	2.6			0.0		12.3				25.0
IH7		6.2	2.5			0.0		18.0				26.7
LQ1			0.5	0.0								10.2
LQ2			0.0	0.0			50.0		160.0		120.0	6.9
NB7					5.8			12.8				
OS7								50.0				
RB3								6.0				
RB8								33.3				
GMI6			0.4	0.0		0.0						
GMO6			0.0	0.0		2.0						
Aransas Bay									0.0		0.0	0.0
Copano Bay							50.0					
St Charles												
Mesquite												
Redfish								19.7				
Corpus Christi												0.0
CCSC (bay)	0.0		0.2		6.5	0.0	56.7	7.1				7.1
Inner Harbor		5.0	3.0			0.0	46.7	13.2				23.3
Nueces Bay												
Aransas Pass								0.0				
Causeway N												
Causeway S											0.0	
Laguna (King)									0.0		0.0	0.0
Laguna (Baffin)									0.0		0.0	0.0
Baffin Bay								7.0				
GOM inlet			0.2	0.0		1.0						

Table 6-23
Monthly average values (with BDL=0) for period-of-record by hydrographic segment and principal bay
Water quality parameter WQMETHGT

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
BF1								0.7				
C14												0.0
C15								0.0				
CCC2					0.2				0.0			
CCC3			0.4		0.3							
CCC4	0.0		0.0									0.0
CCC5	0.0		0.1									0.0
CCC6	0.0	0.6	0.0		0.6	0.8	0.3	0.0				0.0
CCC7	0.0		0.0									0.1
CCC8			0.0					0.3				0.1
HI1								0.0				
I1		0.0										
I2		0.0										
I3	0.0				0.0							
I4	0.0		0.0		0.0			0.0				
I5	0.0											
I6	0.0											
I10											0.0	
I11											0.0	
I13									0.0			0.0
I14									0.0			
I15												0.0
I16									0.0		0.0	0.0
I17												0.0
I18									0.0		0.0	0.0
IH1		0.3						0.0				
IH2			0.3					0.0				0.0

(continued)

Table 6-23
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
IH3			0.3			0.0		0.0				0.1
IH4			0.3					0.3				0.2
IH5		0.0	0.4				0.4	0.0				0.0
IH6		0.0	0.5			0.0		0.0				0.3
IH7		0.0	0.3			0.0		0.0				0.0
LQ1			0.3	0.0								0.0
LQ2			0.4	0.0			2.7		0.0		0.0	0.1
NB7					0.0			0.1	0.0			
OS7								0.0				
RB3								0.0				
RB8								0.2				
GMI6			0.2	0.0		0.0						
GMO6			0.1	0.0		0.0						
Aransas Bay									0.0		0.0	0.0
Copano Bay												
St Charles												
Mesquite												
Redfish								0.1				
Corpus Christi												0.0
CCSC (bay)	0.0	0.6	0.1		0.4	0.8	0.3	0.0				0.0
Inner Harbor		0.1	0.4			0.0	0.4	0.0				0.1
Nueces Bay												
Aransas Pass								0.0				
Causeway N												
Causeway S											0.0	
Laguna (King)									0.0		0.0	0.0
Laguna (Baffin)									0.0		0.0	0.0
Baffin Bay								0.7				
GOM inlet			0.2	0.0		0.0						

Table 6-24
Monthly average values (with BDL=0) for period-of-record by hydrographic segment and principal bay
Water quality parameter WQMETPBT

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
BF1								30.0				
C15								130.0				
CCC2					0.0				0.0			
CCC3			0.0		0.0							
CCC4	0.0		0.0									0.0
CCC5	0.0		0.0									0.0
CCC6	0.0		0.0		33.3	20.0	0.0	53.0				0.0
CCC7	0.0		0.0									2.0
CCC8			0.0					30.0				13.3
CP10							0.0					
HI1								0.0				
I1		0.0										
I2		0.0										
I3	0.0				0.0							
I4	0.0		0.0		0.0			0.0				
I5	0.0											
I6	0.0											
I10											0.0	
I11											0.0	
I13									0.0			0.0
I14									0.0			
I15												0.0
I16									0.0		0.0	0.0
I17												0.0
I18									0.0		0.0	0.0
IH1								53.3				
IH2			1.0					55.0				15.0

(continued)

Table 6-24
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
IH3			1.3			0.0		23.3				26.7
IH4			2.2					77.5				35.0
IH5			3.1				0.0	8.3				30.0
IH6			2.2			0.0		13.3				0.0
IH7		0.0	3.2			0.0		0.0				16.7
LQ1			0.0	0.0								1.4
LQ2			0.0	0.0			0.0		30.9		451.1	223.0
NB7					8.3			35.0	37.5			
OS7								85.0				
RB3								33.3				
RB8								70.0				
GMI6			0.0	0.0		0.0						
GMO6			0.0	0.0		0.0						
Aransas Bay									0.0		0.0	0.0
Copano Bay							0.0					
St Charles												
Mesquite												
Redfish								51.7				
Corpus Christi												0.0
CCSC (bay)	0.0		0.0		16.7	20.0	0.0	53.0				0.5
Inner Harbor		0.0	2.2			0.0	0.0	33.0				20.6
Nueces Bay												
Aransas Pass								0.0				
Causeway N												
Causeway S											0.0	
Laguna (King)									0.0		0.0	0.0
Laguna (Baffin)									0.0		0.0	0.0
Baffin Bay								30.0				
GOM inlet			0.0	0.0		0.0						

Table 6-25
Monthly average values (with BDL=0) for period-of-record by hydrographic segment and principal bay
Water quality parameter WQMETZNT

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
A1	15.3	15.0	15.9	15.3	15.4	13.8	12.2	22.7	21.8	18.9	16.1	16.4
A2	15.2	16.5	18.4	16.5	11.8	17.7	15.2	21.3	18.1	18.0	16.2	14.4
BF1								42.0				
C14												3.2
C15								30.0				
CCC2					0.0				0.0			
CCC3			2.5		0.0							
CCC4	0.0		79.5									15.0
CCC5	0.0		132.8									1.4
CCC6	0.0	100.0	161.6		240.0	105.3	43.3	258.1				12.1
CCC7	0.0		213.8									26.0
CCC8			323.0					36.8				48.0
CP10							50.0					
HI1								0.0				
I1		0.0										
I2		0.0										
I3	52.7				0.0							
I4	39.5		3.6		0.0			0.0				
I5	5.7											
I6	1.8											
I10											0.0	
I11											0.0	
I13									0.0			8.0
I14									0.0			
I16									0.0		0.0	4.6
I18									0.0		0.0	8.7
IH1		100.0						27.3				

(continued)

Table 6-25
(continued)

Seg ID	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*
IH2			20.0					30.0				80.0
IH3			35.3			0.0		41.5				100.0
IH4			57.0					49.8				225.0
IH5		100.0	66.0				130.0	35.0				125.0
IH6		80.3	69.3			0.0		32.3				65.0
IH7		12.4	17.8			0.0		28.2				90.0
LQ1			1.9	10.0								36.1
LQ2			2.0	19.7			59.5		49.0		525.0	424.6
NB7					57.3			44.0				
OS7								50.0				
RB3								6.7				
RB8								33.3				
GMI6			7.7	0.0		0.0						
GMO6			0.0	0.0		0.0						
Aransas Bay									0.0		0.0	4.1
Copano Bay							50.0					
St Charles												
Mesquite												
Redfish								20.0				
Corpus Christi												3.2
CCSC (bay)	0.0	100.0	118.0		120.0	105.3	43.3	258.1				13.6
Inner Harbor		73.2	44.2			0.0	130.0	34.9				114.2
Nueces Bay												
Aransas Pass								0.0				
Causeway N												
Causeway S											0.0	
Laguna (King)									0.0		0.0	7.8
Laguna (Baffin)									0.0		0.0	4.4
Baffin Bay								42.0				
GOM inlet			3.9	0.0		0.0						

Table 6-26
Summary by principal bays of average (with BDL=0) total metals in water, for selected metals.
Highest three concentrations for each metal in boldface

metals:	*Cd*	*Cu*	*Hg*	*Pb*	*Zn*
Aransas Bay	0.0	2.2	0.00	4.0	13.1
Copano Bay	**2.5**	**27.0**	**0.40**	0.5	35.0
St Charles	0.0	4.0	0.00	25.0	10.0
Mesquite					
Redfish	**1.6**	**19.7**	0.08	**51.7**	20.0
Corpus Christi	0.0	2.8	0.00	11.9	**105.9**
CCSC (bay)	**2.2**	10.1	0.08	3.4	**63.0**
Inner Harbor	0.8	11.5	0.12	18.0	52.8
Nueces Bay	0.0	14.0	0.00	**100.0**	44.0
Aransas Pass	0.0	0.0	0.01	0.0	2.2
Causeway N	0.0	0.0	0.00	0.0	0.0
Causeway S	0.0	0.0	0.00	**70.0**	5.0
Laguna (King)	0.8	10.5	**0.33**	14.7	22.7
Laguna (Baffin)	0.0	0.0	0.00	8.0	5.4
Baffin Bay	**1.6**	**31.3**	**2.22**	36.2	**59.3**
GOM inlet	0.0	0.3	0.07	0.0	1.7

Table 6-27
Stratification in salinity (WQSAL) by hydrographic area

Seg-ment	*no. obs*	*strat ppt/m*	*st dev ppt/m*	*percent positive*	*Seg-ment*	*no. obs*	*strat ppt/m*	*st dev ppt/m*	*percent positive*
A1	50	-0.48	0.82	2	GR2	13	-0.07	0.55	8
A2	66	-0.61	1.10	6	HI1	13	-0.42	1.20	31
A3	80	-0.53	0.96	10	HI2	4	-0.82	0.74	0
A4	55	-0.54	0.96	7	I3	66	-0.29	0.96	20
A5	17	-0.47	1.20	6	I5	51	-0.66	1.00	12
A10	16	-0.46	1.00	6	I6	67	-0.31	4.20	28
A12	95	-0.70	1.00	5	I7	66	-0.98	1.30	6
AL2	30	-0.08	2.00	20	I9	99	-0.10	0.47	18
BF1	195	0.32	3.10	36	I10	65	-0.24	0.52	23
BF2	66	-0.10	0.53	21	I11	18	-0.11	0.34	11
BF3	147	-0.21	3.90	40	I12	74	-0.30	2.30	41
C01	65	-0.27	1.00	29	I13	98	-0.06	0.35	15
C02	91	-0.47	2.60	26	I15	70	-0.08	0.33	13
C03	121	-0.31	0.86	19	I17	106	-0.01	2.10	42
C04	71	-0.95	1.90	6	IH1	115	-0.13	0.53	28
C05	96	-0.40	1.10	15	IH3	16	-0.25	0.33	0
C06	92	-0.46	1.00	9	IH5	109	-0.14	0.40	28
C07	151	-0.22	0.65	18	IH6	89	-0.09	0.41	34
C08	23	-0.24	0.60	9	IH7	155	-0.39	0.59	12
C09	110	-0.10	0.44	18	LAC	45	-0.22	0.51	7
C10	164	-0.22	0.69	15	LQ1	73	-0.30	0.45	18
C11	250	-0.40	0.98	11	LQ2	94	-0.12	0.33	30
C12	216	-0.24	1.10	16	LS1	27	-0.55	1.10	22
C13	3	-0.64	0.19	0	LS2	35	-0.13	0.91	20
C14	257	-0.23	0.75	14	MB1	59	1.01	4.30	41
C15	322	-0.53	3.00	18	MB2	9	-0.04	0.09	11
C17	127	-0.60	1.60	12	NB1	56	-0.58	1.80	18
C18	9	-1.29	2.40	22	NB2	12	-0.33	0.94	8
C20	81	-0.40	1.10	22	NB3	20	-0.81	3.10	25
C21	67	-0.16	0.39	9	NB4	77	-1.05	4.70	18
C22	36	-0.04	0.18	14	NB5	283	-0.32	2.90	22
C23	12	-0.02	0.20	17	NB6	144	-2.14	4.70	10
C24	84	-0.23	0.87	15	NB7	66	-1.92	5.00	24
C25	40	-0.13	0.61	10	NB8	12	0.55	3.50	17
CB	93	-0.14	0.53	11	NB9	4	-1.08	2.00	25
CBH	4	0.16	0.57	25	NR1	24	-0.50	1.20	0
CBY1	5	-0.12	0.04	0	NR3	36	-3.70	3.40	3

(continued)

Table 6-27
Stratification in salinity (WQSAL)
(continued)

Seg-ment	*no. obs*	*strat ppt/m*	*st dev ppt/m*	*percent positive*	*Seg-ment*	*no. obs*	*strat ppt/m*	*st dev ppt/m*	*percent positive*
CCC1	186	-0.08	0.91	15	NR4	9	-0.75	0.70	11
CCC2	7	-0.05	0.11	43	NR5	44	-1.59	5.50	9
CCC3	150	-0.24	0.44	9	RB1	10	-0.52	0.71	0
CCC4	3	0.02	0.12	33	RB3	64	-0.54	0.83	16
CCC5	54	-0.16	0.39	7	RB4	12	-0.63	1.30	8
CCC6	77	-0.17	0.42	30	RB5	27	-0.31	0.44	11
CCC7	146	-0.35	0.66	10	RB6	28	-0.58	1.80	18
CCC8	99	-0.33	0.56	14	RB8	104	-0.54	1.10	20
CP02	34	0.03	0.95	15	RB9	28	-1.48	2.30	4
CP03	63	-0.41	1.40	10	SC1	12	-0.38	1.20	8
CP04	31	0.03	0.59	3	SC2	26	-0.48	1.30	12
CP05	62	-0.33	0.79	8	SC3	49	-0.31	1.20	12
CP07	100	-0.35	1.00	9	UL03	37	-0.02	0.35	35
CP08	21	-0.11	0.58	19	UL04	67	-0.04	1.40	42
CP09	51	-0.25	0.61	8	UL11	13	-0.11	2.50	31
CP10	124	-0.59	1.50	11	GMI6	54	-0.13	0.30	22
					GMO6	15	-0.06	0.16	27

Component Bay	*no. obs*	*strat ppt/m*	*st dev ppt/m*	*percent positive*
Aransas Bay	538	-0.40	1.24	14
Copano Bay	486	-0.35	1.12	10
St Charles	75	-0.37	1.24	12
Mesquite	161	0.29	2.63	22
Redfish	263	-0.62	1.29	16
Corpus Christi	1719	-0.32	1.06	14
CCSC (bay)	430	-0.25	0.52	13
Inner Harbor	487	-0.21	0.50	23
Nueces Bay	404	-0.46	3.31	21
Aransas Pass	245	-0.13	0.87	14
Causeway N	223	-0.16	0.67	16
Causeway S	132	-0.14	1.06	33
Laguna (King)	310	-0.12	1.27	24
Laguna (Baffin)	106	-0.01	2.10	42
Baffin Bay	451	0.05	3.07	33

Table 6-28
Stratification in water temperature (WQTEMP) by hydrographic area

Seg- ment	*no. obs*	*strat °C/m*	*st dev °C/m*	*percent positive*	*Seg- ment*	*no. obs*	*strat °C/m*	*st dev °C/m*	*percent positive*
A1	51	0.072	0.29	49	GR2	13	0.009	0.09	15
A2	67	0.106	0.46	39	HI1	30	0.050	0.15	47
A3	81	0.092	0.28	52	HI2	4	0.207	0.21	75
A4	56	0.028	0.27	46	I3	67	0.015	0.38	45
A5	18	0.068	0.27	28	I5	67	0.008	0.14	40
A10	32	-0.012	0.17	38	I6	82	0.108	0.24	65
A11	15	-0.225	0.91	33	I7	96	0.072	0.31	59
A12	112	0.033	0.22	45	I9	101	0.051	0.13	57
AL2	30	0.368	1.50	33	I10	79	0.089	0.13	71
BF1	194	0.138	0.32	51	I11	18	0.072	0.16	50
BF2	66	0.075	0.21	50	I12	74	0.203	0.22	77
BF3	147	0.096	0.30	47	I13	98	-0.090	1.40	43
C01	81	0.094	0.19	63	I15	68	0.073	0.13	63
C02	105	0.077	0.19	63	I17	106	0.138	0.21	69
C03	138	0.053	0.27	42	IH1	114	0.030	0.14	67
C04	70	0.061	0.14	63	IH3	16	0.042	0.07	75
C05	92	0.053	0.16	42	IH5	107	0.089	0.23	82
C06	89	0.040	0.21	43	IH6	88	0.065	0.08	85
C07	152	0.077	0.16	55	IH7	170	0.055	0.10	75
C08	42	0.056	0.08	57	LAC	46	-0.016	0.09	24
C09	111	0.074	0.14	58	LQ1	88	0.045	0.09	74
C10	179	0.046	0.14	51	LQ2	118	0.070	0.11	82
C11	267	0.050	0.25	43	LS1	27	-0.066	0.66	30
C12	216	0.068	0.28	44	LS2	35	0.048	0.22	37
C13	3	-0.010	0.01	0	MB1	60	0.725	4.20	43
C14	284	0.019	0.54	51	MB2	9	0.150	0.26	67
C15	335	0.045	0.27	41	NB1	47	0.112	0.37	47
C17	123	0.049	0.19	42	NB2	9	0.109	0.29	33
C18	7	0.026	0.18	43	NB3	39	-0.032	0.91	28
C19	15	0.024	0.08	40	NB4	71	0.011	0.67	37
C20	76	0.059	0.12	58	NB5	271	0.119	0.69	32
C21	69	0.000	0.29	43	NB6	141	-0.651	2.30	20
C22	36	0.063	0.19	53	NB7	66	-0.405	3.10	30
C23	11	0.114	0.08	91	NB8	9	-0.056	0.06	0
C24	83	0.015	0.16	39	NB9	18	0.236	0.49	56
C25	42	0.091	0.23	45	NR1	24	0.066	0.17	54
CB	94	-0.003	0.50	27	NR3	36	0.207	0.68	58
CBH	5	0.102	0.13	60	NR4	7	0.560	0.54	71
CBY1	5	0.039	0.18	60	NR5	44	0.248	0.50	48

(continued)

Table 6-28
Stratification in water temperature (WQTEMP)
(continued)

Seg-ment	*no. obs*	*strat ℃/m*	*st dev ℃/m*	*percent positive*	*Seg-ment*	*no. obs*	*strat ℃/m*	*st dev ℃/m*	*percent positive*
CCC1	183	0.023	0.07	52	RB1	11	0.032	0.15	73
CCC2	20	0.026	0.08	45	RB3	65	0.170	0.21	77
CCC3	163	0.028	0.07	65	RB4	14	0.003	0.08	29
CCC4	3	0.040	0.03	67	RB5	27	0.078	0.38	52
CCC5	60	0.010	0.05	52	RB6	28	0.055	0.69	36
CCC6	91	0.037	0.08	67	RB8	104	0.105	0.22	62
CCC7	156	0.038	0.12	53	RB9	28	0.070	0.20	57
CCC8	97	0.061	0.09	77	SC1	13	-0.019	0.14	23
CP02	34	0.140	0.34	41	SC2	26	0.110	0.45	35
CP03	63	0.211	0.98	43	SC3	49	0.039	0.59	29
CP04	31	0.048	0.11	52	UL03	37	0.080	0.36	32
CP05	62	0.171	0.66	40	UL04	67	0.158	0.15	81
CP07	100	0.097	0.32	35	UL11	13	-0.068	0.50	31
CP08	22	0.102	0.23	41	GMI6	54	0.047	0.08	67
CP09	51	0.074	0.23	47	GMO6	16	0.025	0.06	56
CP10	125	0.098	0.21	54					

Component Bay	*no. obs*	*strat ℃/m*	*st dev ℃/m*	*percent positive*
Aransas Bay	588	0.067	0.30	51
Copano Bay	488	0.119	0.48	45
St Charles	75	0.064	0.55	31
Mesquite	163	0.274	2.58	35
Redfish	266	0.104	0.32	59
Corpus Christi	1841	0.046	0.28	47
CCSC (bay)	473	0.031	0.09	60
Inner Harbor	498	0.058	0.14	76
Nueces Bay	399	0.081	0.70	32
Aransas Pass	260	0.019	0.09	47
Causeway N	226	0.045	0.16	48
Causeway S	146	0.120	0.14	75
Laguna (King)	308	0.047	0.82	54
Laguna (Baffin)	106	0.138	0.21	69
Baffin Bay	450	0.127	0.48	47

Table 6-29
Stratification in dissolved oxygen deficit (WQDODEF) by hydrographic area

Seg-ment	*no. obs*	*strat ppm/m*	*st dev ppt/m*	*percent positive*	*Seg-ment*	*no. obs*	*strat ppm/m*	*st dev ppt/m*	*percent positive*
A1	18	-0.07	0.41	33	GR2	5	-0.24	0.41	20
A2	27	-0.18	0.32	19	HI1	4	-0.04	0.14	50
A3	30	-0.34	0.69	20	I3	35	-0.17	0.55	29
A4	31	-0.14	0.36	35	I6	33	-0.22	0.29	24
A5	6	0.14	0.22	67	I7	40	-0.14	0.19	18
A10	4	-0.73	1.30	50	I9	63	-0.02	0.15	38
A12	38	-0.26	0.28	11	I10	19	-0.10	0.15	11
AL2	15	-0.07	0.40	47	I11	13	-0.12	0.12	0
BF1	46	-0.16	0.42	39	I12	42	-0.30	0.47	12
BF2	14	-0.39	0.60	14	I13	23	-0.04	0.15	39
BF3	29	-0.24	0.43	21	I15	34	-0.20	0.33	15
C01	14	-0.40	0.78	14	I17	42	-0.35	0.46	19
C02	43	-0.12	0.24	23	IH1	97	-0.20	0.25	7
C03	40	-0.27	0.55	20	IH3	15	-0.34	0.28	7
C04	34	-0.49	0.67	18	IH5	99	-0.21	0.22	4
C05	52	-0.29	0.55	8	IH6	83	-0.15	0.15	6
C06	50	-0.49	1.60	14	IH7	141	-0.18	0.21	12
C07	59	-0.16	0.47	19	LAC	31	-0.03	0.14	32
C08	6	-0.02	0.15	33	LQ1	50	-0.10	0.15	14
C09	43	-0.23	0.50	14	LQ2	75	-0.14	0.12	3
C10	70	-0.28	1.20	24	LS2	3	0.20	0.43	67
C11	131	-0.32	0.78	21	MB1	15	-0.36	0.37	13
C12	97	-0.20	0.49	26	NB1	17	-0.59	2.60	35
C14	92	-0.19	0.57	22	NB3	10	-0.68	0.72	10
C15	185	-0.17	0.40	28	NB4	39	-0.34	1.00	46
C17	72	-0.38	0.86	19	NB5	131	-0.21	0.52	37
C18	7	-1.45	2.50	0	NB6	91	-0.60	1.00	22
C20	23	-0.16	0.31	17	NB7	42	-0.55	1.30	31
C21	30	-0.14	0.23	20	NB8	4	-0.80	1.40	0
C22	22	-0.12	0.18	18	NR1	12	-0.60	0.75	33
C24	33	-0.09	0.23	30	NR3	31	-1.95	2.20	16
C25	27	-0.04	0.13	44	NR4	3	0.82	2.00	33
CB	43	-0.07	0.34	30	NR5	24	-0.23	0.67	33
CCC1	115	-0.05	0.17	26	RB1	6	-0.42	0.90	50
CCC2	4	-0.05	0.02	0	RB3	44	-0.26	0.38	18
CCC3	93	-0.07	0.19	22	RB4	7	-0.16	0.22	43
CCC4	3	-0.09	0.04	0	RB5	12	-0.14	0.29	17
CCC5	27	-0.04	0.07	22	RB6	10	0.02	0.33	20
CCC6	59	-0.08	0.11	12	RB8	71	-0.11	0.18	23

(continued)

Table 6-29
Stratification in dissolved oxygen deficit (WQDODEF)
(continued)

Seg- ment	*no. obs*	*strat ppm/m*	*st dev ppt/m*	*percent positive*	*Seg- ment*	*no. obs*	*strat ppm/m*	*st dev ppt/m*	*percent positive*
CCC7	86	-0.11	0.18	19	RB9	18	-0.98	1.10	17
CCC8	83	-0.11	0.16	17	SC1	4	-0.94	1.50	50
CP02	20	-0.06	0.30	35	SC2	12	-0.11	0.26	25
CP03	40	-0.29	0.75	25	SC3	24	0.10	0.43	29
CP04	17	-0.09	0.19	29	UL03	10	-0.43	0.94	20
CP05	36	-0.18	0.26	17	UL04	39	-0.16	0.16	21
CP07	58	-0.16	0.34	17	UL11	9	-0.01	0.42	11
CP08	4	-0.18	0.18	25	GMI6	35	-0.04	0.07	17
CP09	23	-0.30	0.49	9	GMO6	12	-0.04	0.04	8
CP10	62	-0.22	0.30	11					

Component Bay	*no. obs*	*strat ppt/m*	*st dev ppt/m*	*percent positive*
Aransas Bay	224	-0.24	0.46	21
Copano Bay	260	-0.20	0.42	18
St Charles	36	0.03	0.38	28
Mesquite	60	-0.14	0.35	27
Redfish	162	-0.25	0.45	21
Corpus Christi	751	-0.26	0.79	18
CCSC (bay)	268	-0.08	0.16	18
Inner Harbor	438	-0.19	0.21	8
Nueces Bay	186	-0.28	0.69	36
Aransas Pass	151	-0.04	0.16	28
Causeway N	123	-0.04	0.17	37
Causeway S	58	-0.14	0.16	17
Laguna (King)	131	-0.20	0.43	17
Laguna (Baffin)	42	-0.35	0.46	19
Baffin Bay	109	-0.20	0.45	31

Table 6-30
Stratification in pH (WQPH) by hydrographic area

Seg-ment	*no. obs*	*strat 10^{-3} pH/m*	*st dev 10^{-3} pH/m*	*percent positive*	*Seg-ment*	*no. obs*	*strat 10^{-3} pH/m*	*st dev 10^{-3} pH/m*	*percent positive*
A1	43	21.8	47	37	CP09	45	29.9	60	38
A2	35	33.0	70	34	CP10	93	12.4	57	32
A3	49	12.2	40	33	GR2	11	12.7	73	27
A4	27	21.9	38	30	HI1	12	35.8	79	42
A5	16	0.0	0	0	I3	40	23.1	68	38
A10	15	17.0	43	27	I5	48	24.0	34	52
A12	66	18.7	32	45	I6	63	14.2	56	32
AL2	6	13.9	31	17	I7	37	30.5	39	59
BF1	78	-11.2	94	19	I9	56	4.0	26	36
BF2	22	16.2	63	41	I10	24	7.6	54	46
BF3	82	8.1	50	24	I11	18	7.0	19	33
C01	5	20.5	37	40	I12	70	2.0	69	19
C02	73	2.5	43	25	I13	7	2.8	16	29
C03	42	17.6	110	29	I15	21	3.3	24	38
C04	48	9.3	23	21	I17	70	10.5	70	36
C05	58	4.3	39	26	IH1	105	12.7	25	57
C06	56	1.0	46	30	IH3	13	22.0	29	62
C07	28	18.5	38	32	IH5	100	8.3	17	52
C08	16	5.0	18	31	IH6	79	3.8	13	44
C09	47	5.6	55	30	IH7	104	9.5	28	53
C10	82	9.8	25	27	LAC	42	9.7	16	36
C11	147	11.2	34	35	LQ1	25	-3.2	50	48
C12	78	20.4	40	42	LQ2	85	9.5	16	55
C14	77	-1.4	63	29	LS2	9	7.9	22	11
C15	172	2.3	53	28	MB1	53	-28.4	140	19
C17	57	12.8	59	32	NB3	5	0.0	0	0
C18	3	130.0	120	100	NB4	23	64.6	170	43
C20	4	9.3	16	25	NB5	165	14.3	100	24
C21	30	-9.2	60	20	NB6	57	59.6	290	44
C22	9	11.2	16	33	NB7	39	25.9	120	31
C24	35	-10.1	77	29	NR1	20	32.1	150	55
C25	34	4.5	26	29	NR3	31	156.0	160	81
CB	62	16.2	74	16	NR5	20	71.4	220	35
CBH	4	16.0	18	50	RB1	11	13.1	29	45
CCC1	100	2.8	22	40	RB3	57	25.9	39	61
CCC3	56	6.8	23	64	RB4	14	25.3	65	50
CCC5	12	18.6	11	83	RB8	96	13.2	52	41
CCC6	70	3.6	11	46	RB9	21	43.0	57	57

(continued)

Table 6-30
Stratification in pH (WQPH)
(continued)

Seg-ment	*no. obs*	*strat 10^{-3} pH/m*	*st dev 10^{-3} pH/m*	*percent positive*	*Seg-ment*	*no. obs*	*strat 10^{-3} pH/m*	*st dev 10^{-3} pH/m*	*percent positive*
CCC7	64	12.6	18	69	SC1	11	58.7	120	36
CCC8	80	2.7	23	44	SC2	22	7.6	66	9
CP02	30	7.1	130	20	SC3	19	33.6	97	16
CP03	32	46.7	120	34	UL03	15	5.6	21	7
CP04	27	16.0	51	30	UL04	64	4.6	29	39
CP05	31	8.6	65	16	UL11	13	16.6	40	15
CP07	66	33.5	69	45	GMI6	49	4.2	11	51
CP08	19	32.2	100	21	GMO6	16	6.1	6	69

Component Bay	*no. obs*	*strat 10^{-3} pH/m*	*st dev 10^{-3} pH/m*	*percent positive*
Aransas Bay	326	17.1	51	37
Copano Bay	343	22.5	79	32
St Charles	41	19.6	82	12
Mesquite	115	-4.4	109	17
Redfish	189	21.2	50	49
Corpus Christi	736	6.7	47	27
CCSC (bay)	204	8.2	17	60
Inner Harbor	404	9.3	22	53
Nueces Bay	193	19.9	110	26
Aransas Pass	155	7.2	29	39
Causeway N	125	0.2	46	32
Causeway S	88	5.4	38	41
Laguna (King)	144	4.5	51	22
Laguna (Baffin)	70	10.5	70	36
Baffin Bay	199	1.9	73	24

Table 6-31
Stratification in ammonia (WQAMMN) by hydrographic area

Seg-ment	*no. obs*	*strat 10^{-3} ppm/m*	*st dev 10^{-3} ppm/m*	*percent positive*	*Seg-ment*	*no. obs*	*strat 10^{-3} ppm/m*	*st dev 10^{-3} ppm/m*	*percent positive*
A3	13	-1.2	20.0	38	GR2	8	10.8	17.0	38
A5	5	1.1	12.0	40	I3	9	-29.6	53.0	22
A12	24	2.3	22.0	29	I5	19	-2.7	8.4	32
AL2	7	-4.9	13.0	14	I7	15	-7.0	18.0	20
BF1	85	-3.0	12.0	27	I9	57	1.6	23.0	28
BF2	50	-2.2	12.0	28	I10	28	-0.1	2.3	32
BF3	64	-4.3	21.0	31	I11	3	25.2	36.0	33
C02	14	8.5	20.0	57	I13	62	1.8	10.0	45
C03	17	-38.3	150.0	35	I15	35	-4.8	17.0	23
C04	13	1.2	8.4	38	I17	31	-0.9	3.1	35
C05	22	9.1	51.0	23	IH1	19	-31.3	58.0	21
C06	7	-11.8	8.2	0	IH3	3	-9.2	0.4	0
C07	13	1.5	11.0	31	IH5	8	8.0	14.0	63
C08	12	-0.5	4.6	50	IH6	3	9.4	14.0	67
C09	3	0.8	4.7	67	IH7	46	2.0	21.0	54
C10	21	5.9	19.0	43	LAC	11	1.4	8.9	36
C11	44	-2.3	8.0	23	LQ2	4	-6.6	6.2	0
C12	34	1.8	14.0	38	LS1	26	2.0	26.0	31
C14	79	1.9	18.0	42	LS2	31	-5.4	9.8	13
C15	26	1.7	22.0	35	MB1	6	0.7	2.2	33
C17	38	-8.5	57.0	32	MB2	11	-3.1	10.0	27
C20	11	-2.3	5.7	45	NB1	55	-8.7	78.0	35
C21	10	-2.4	11.0	40	NB2	12	-17.7	28.0	25
C23	12	5.0	21.0	50	NB3	12	-29.0	32.0	33
C24	11	-3.5	14.0	45	NB4	30	-3.6	36.0	37
CB	10	-1.2	39.0	50	NB5	57	1.0	51.0	40
CBY1	6	-2.0	8.6	67	NB6	13	-11.2	51.0	62
CCC1	37	-0.5	2.7	27	NB8	10	6.4	60.0	30
CCC3	31	-1.5	3.8	19	NB9	4	10.0	19.0	50
CCC5	13	-2.2	4.6	31	NR1	13	-2.7	28.0	15
CCC6	3	0.0	0.0	0	NR4	7	-5.6	68.0	43
CCC7	41	0.7	17.0	41	RB1	9	-0.5	11.0	44
CCC8	15	-4.3	15.0	33	RB3	9	-6.2	11.0	22
CP02	3	2.8	9.9	67	RB8	7	-4.6	4.8	0
CP05	5	10.6	45.0	40	UL03	24	-2.1	27.0	46
CP07	19	-3.9	31.0	26	GMI6	23	-1.1	3.4	13
CP10	9	-5.3	23.0	22	GMO6	3	-1.5	2.5	33

(continued)

Table 6-31
Stratification in ammonia (WQAMMN)
(continued)

Component Bay	*no. obs*	*strat 10^{-3} ppm/m*	*st dev 10^{-3} ppm/m*	*percent positive*
Aransas Bay	108	-1.4	15.9	31
Copano Bay	38	-1.6	29.8	32
St Charles	insufficient data			
Mesquite	27	-1.6	24.6	37
Redfish	17	-5.2	8.6	12
Corpus Christi	313	-0.6	39.6	32
CCSC (bay)	90	-0.5	11.8	30
Inner Harbor	82	-5.7	32.5	44
Nueces Bay	121	-4.6	45.0	36
Aransas Pass	49	-0.1	4.8	29
Causeway N	68	0.8	21.8	31
Causeway S	28	-0.1	2.3	32
Laguna (King)	126	-0.2	17.3	38
Laguna (Baffin)	31	-0.9	3.1	35
Baffin Bay	214	-2.7	15.5	29

Table 6-32
Stratification in nitrate (WQNO3N) by hydrographic area

Seg- ment	*no. obs*	*strat 10^{-3} ppm/m*	*st dev 10^{-3} ppm/m*	*percent positive*	*Seg- ment*	*no. obs*	*strat 10^{-3} ppm/m*	*st dev 10^{-3} ppm/m*	*percent positive*
A3	13	-2.32	14.0	15	GR2	8	-1.25	11.0	13
A5	5	-2.22	4.4	0	I3	9	0.54	12.0	22
A12	24	0.25	2.3	17	I5	19	-4.01	13.0	5
AL2	7	1.59	15.0	14	I7	15	0.02	1.0	7
BF1	85	0.58	4.1	58	I9	49	-9.05	56.0	16
BF2	50	0.31	5.1	62	I10	28	0.04	0.4	39
BF3	64	-0.47	6.4	55	I11	3	-17.30	12.0	0
C02	14	14.80	32.0	71	I13	62	0.89	7.6	55
C03	17	-0.81	31.0	47	I15	35	6.26	38.0	37
C04	13	5.70	10.0	69	I17	31	-0.13	1.0	65
C05	19	0.98	3.6	21	IH1	22	0.54	2.3	23
C06	7	0.00	0.0	0	IH3	4	3.16	3.2	75
C07	13	-0.83	2.0	0	IH5	8	32.80	60.0	50
C08	13	1.19	1.7	69	IH6	3	4.44	5.7	67
C09	3	0.00	0.0	0	IH7	50	6.34	24.0	66
C10	24	0.65	5.1	29	LAC	11	-1.72	4.9	0
C11	38	-0.18	11.0	13	LQ2	5	-1.32	2.2	0
C12	35	3.09	17.0	26	LS1	26	-2.19	12.0	62
C14	79	-0.51	12.0	39	LS2	31	0.72	2.2	55
C15	24	10.50	54.0	29	MB1	6	21.00	42.0	50
C17	34	3.21	10.0	32	MB2	11	4.87	9.7	73
C20	11	-5.09	8.5	36	NB1	56	-17.40	82.0	50
C21	10	0.37	1.1	10	NB2	12	18.30	94.0	42
C23	12	2.08	6.4	67	NB3	12	-16.10	66.0	58
C24	11	-4.81	21.0	73	NB4	30	2.46	41.0	50
C25	6	0.83	1.9	17	NB5	58	8.12	39.0	62
CB	10	17.20	34.0	40	NB6	14	-42.20	200.0	50
CBY1	6	28.20	64.0	67	NB8	10	19.30	95.0	20
CCC1	34	-3.83	14.0	26	NB9	4	7.40	13.0	50
CCC3	34	-3.84	15.0	24	NR1	15	-14.50	34.0	0
CCC4	3	0.00	0.0	0	NR3	3	-1.85	2.6	0
CCC5	13	0.88	2.9	62	NR4	7	24.50	41.0	71
CCC6	4	0.00	0.0	0	NR5	3	-9.00	6.4	0
CCC7	43	8.51	53.0	37	RB1	9	-2.64	6.8	0
CCC8	15	1.55	6.4	53	RB3	11	-24.80	500.0	9
CP02	4	-2.08	3.6	0	RB8	7	0.66	1.6	14
CP05	5	-1.67	3.3	0	UL03	24	-1.93	6.7	33
CP07	21	-84.50	260.0	14	GMI6	18	-0.98	4.5	11
CP10	9	5.71	19.0	11	GMO6	5	0.06	2.1	20

(continued)

Table 6-32
Stratification in nitrate (WQNO3N)
(continued)

Component Bay	*no. obs*	*strat 10^{-3} ppm/m*	*st dev 10^{-3} ppm/m*	*percent positive*
Aransas Bay	108	1.65	22.2	36
Copano Bay	41	-42.40	186.0	10
St Charles	3	-111.00	130.0	0
Mesquite	27	13.00	29.3	56
Redfish	19	-14.10	380.0	11
Corpus Christi	306	0.77	12.8	32
CCSC (bay)	97	2.54	36.4	33
Inner Harbor	90	7.06	25.4	54
Nueces Bay	122	6.26	56.3	53
Aransas Pass	46	-3.24	12.3	20
Causeway N	66	-7.44	49.0	26
Causeway S	28	0.04	0.4	39
Laguna (King)	126	1.40	21.0	44
Laguna (Baffin)	31	-0.13	1.0	65
Baffin Bay	214	0.17	6.1	55

Table 6-33
Stratification in chlorophyll-a (WQCHLA) by hydrographic area

Seg-ment	no. obs	strat 10^{-3} ppb/m	st dev 10^{-3} ppb/m	percent positive	Seg-ment	no. obs	strat 10^{-3} ppb/m	st dev 10^{-3} ppb/m	percent positive
A3	13	-1.2	20.0	38	GR2	8	10.8	17.0	38
A5	5	1.1	12.0	40	I3	9	-29.6	53.0	22
C02	11	-166.0	250	9	CCC5	11	-78.8	110	18
C03	12	-1.4	470	50	CCC7	18	-84.6	370	39
C04	12	93.3	1000	25	CCC8	12	94.0	270	58
C08	12	-89.3	240	17	I9	12	-220.0	780	50
C10	11	-143.0	210	27	MB1	5	-850.0	830	0
C12	13	106.0	480	38	MB2	8	-1600.0	870	0
C14	33	-79.7	660	27	NB1	56	-1450.0	4100	32
C15	11	-152.0	300	36	NB2	12	-731.0	2300	33
C17	12	-95.4	140	25	NB3	12	-2690.0	4000	17
C20	10	90.0	410	40	NB4	30	-606.0	2100	40
C23	11	5.0	220	36	NB5	52	-1180.0	2500	27
C24	10	43.5	340	40	NB6	12	-1210.0	2900	42
CBY1	5	-727.0	1600	40	NB8	10	170.0	900	50
CCC1	13	61.5	420	23	NB9	4	-887.0	2200	25
CCC3	13	8.2	96	46	NR4	7	5550.0	7500	57

Component Bay	no. obs	strat 10^{-3} ppm/m	st dev 10^{-3} ppm/m	percent positive
Aransas Bay	insufficient data			
Copano Bay	insufficient data			
St Charles	insufficient data			
Mesquite	13	-1312	855	0
Redfish	insufficient data			
Corpus Christi	129	-31	509	26
CCSC (bay)	44	-44	249	36
Inner Harbor	insufficient data			
Nueces Bay	116	-1025	2493	32
Aransas Pass	13	62	420	23
Causeway N	22	-100	620	45
Causeway S	insufficient data			
Laguna (King)	insufficient data			
Laguna (Baffin)	insufficient data			
Baffin Bay	insufficient data			

Table 6-34
Stratification in total suspended solids (WQTSS) by hydrographic area

Seg-ment	no. obs	strat ppm/m	st dev ppm/m	percent positive	Seg-ment	no. obs	strat ppm/m	st dev ppm/m	percent positive
CCC6	4	-2.42	5.1	25	IH3	3	0.12	1.6	33
CCC8	3	-2.57	1.0	0	IH5	4	-0.51	0.3	0
IH1	3	-3.35	4.0	0	IH6	4	-0.16	0.7	25

Component Bay	no. obs	strat ppm/m	st dev ppm/m	percent positive
Aransas Bay	insufficient data			
Copano Bay	insufficient data			
St Charles	insufficient data			
Mesquite	insufficient data			
Redfish	insufficient data			
Corpus Christi	insufficient data			
CCSC (bay)	6	-3.50	4.9	17
Inner Harbor	19	-2.32	4.3	16
Nueces Bay	insufficient data			
Aransas Pass	insufficient data			
Causeway N	insufficient data			
Causeway S	insufficient data			
Laguna (King)	insufficient data			
Laguna (Baffin)	insufficient data			
Baffin Bay	insufficient data			

Table 6-35
Stratification in proxy TSS (WQXTSS) by hydrographic area

Seg-ment	*no. obs*	*strat ppm/m*	*st dev ppm/m*	*percent positive*	*Seg-ment*	*no. obs*	*strat ppm/m*	*st dev ppm/m*	*percent positive*
A1	28	-8.13	19.0	18	CP02	10	-2.60	6.6	20
A2	20	-23.00	55.0	20	CP03	10	-10.60	22.0	30
A3	31	-8.08	22.0	10	CP04	6	-2.48	5.5	33
A4	13	-6.48	7.2	8	CP05	10	-7.99	14.0	20
A5	12	-2.65	6.2	8	CP07	22	-5.51	22.0	36
A10	12	-9.08	17.0	8	CP08	7	-2.83	4.1	14
A12	35	-4.29	6.9	14	CP09	12	-10.20	12.0	17
AL2	3	-23.80	40.0	33	CP10	14	-4.17	5.4	7
BF1	6	3.94	7.5	50	GR2	4	-6.78	10.0	25
BF2	9	-6.17	11.0	22	HI1	8	-2.64	5.7	13
BF3	7	-5.22	4.7	0	I3	21	-15.60	32.0	19
C01	60	-7.96	15.0	18	I5	31	-8.73	12.0	3
C02	6	-5.06	4.7	0	I7	21	-4.64	4.3	10
C03	86	-5.81	11.0	15	I9	19	-3.90	12.0	16
C04	14	-6.53	5.7	7	I10	36	-0.73	3.6	25
C05	10	-5.06	5.6	0	I11	6	-5.14	5.5	0
C06	12	-3.37	3.5	8	I13	4	-6.23	9.1	25
C07	86	-3.49	9.3	23	I15	7	-4.28	3.3	14
C08	3	-4.08	2.4	0	IH1	6	-1.80	3.2	0
C09	73	-7.11	9.5	4	IH3	5	-0.01	1.3	20
C10	43	-3.42	8.5	7	IH5	7	-0.04	0.9	29
C11	49	-5.44	7.7	2	IH6	5	-0.13	0.7	20
C12	94	-6.14	9.0	13	IH7	80	-2.56	6.4	28
C14	87	-3.93	8.0	21	LAC	23	-1.35	4.2	22
C15	75	-17.60	25.0	17	LQ1	60	-1.80	2.9	20
C17	6	-11.10	9.9	0	LQ2	11	-1.28	1.9	9
C20	63	-5.56	12.0	29	LS2	4	-16.50	17.0	0
C21	23	-2.21	2.4	4	NB5	31	-26.30	37.0	3
C22	3	-4.24	2.7	0	NB6	8	-34.70	42.0	0
C24	23	-2.57	6.5	4	NR3	4	-8.30	7.5	0
CB	36	-27.30	48.0	14	NR5	6	-10.00	24.0	33
CCC1	76	-1.71	3.7	21	RB1	4	-2.54	1.7	0
CCC3	75	-3.76	4.9	11	RB3	10	-4.76	4.9	0
CCC4	3	-3.77	4.6	0	RB8	11	-4.83	9.7	27
CCC5	5	-2.98	3.2	0	RB9	7	-5.36	5.1	0
CCC6	5	-1.94	4.7	20	SC2	11	-9.22	17.0	18
CCC7	10	-3.76	3.4	10	SC3	7	-7.45	14.0	14
CCC8	3	-2.57	1.0	0	GMI6	9	-0.99	1.1	11
					GMO6	3	0.00	0.0	0

(continued)

Table 6-35
Stratification in proxy TSS (WQXTSS)
(continued)

Component Bay	*no. obs*	*strat ppm/m*	*st dev ppm/m*	*percent positive*
Aransas Bay	146	-8.98	25.0	14
Copano Bay	91	-6.03	14.9	23
St Charles	18	-8.53	15.9	17
Mesquite	36	-27.30	48.0	14
Redfish	28	-4.94	7.2	11
Corpus Christi	552	-4.84	9.8	16
CCSC (bay)	98	-3.63	4.7	10
Inner Harbor	106	-2.05	5.6	25
Nueces Bay	33	-28.30	36.6	3
Aransas Pass	108	-1.69	4.0	20
Causeway N	43	-3.00	9.3	12
Causeway S	36	-0.73	3.6	25
Laguna (King)	20	-7.32	11.5	15
Laguna (Baffin)	insufficient data			
Baffin Bay	29	-5.76	15.3	24

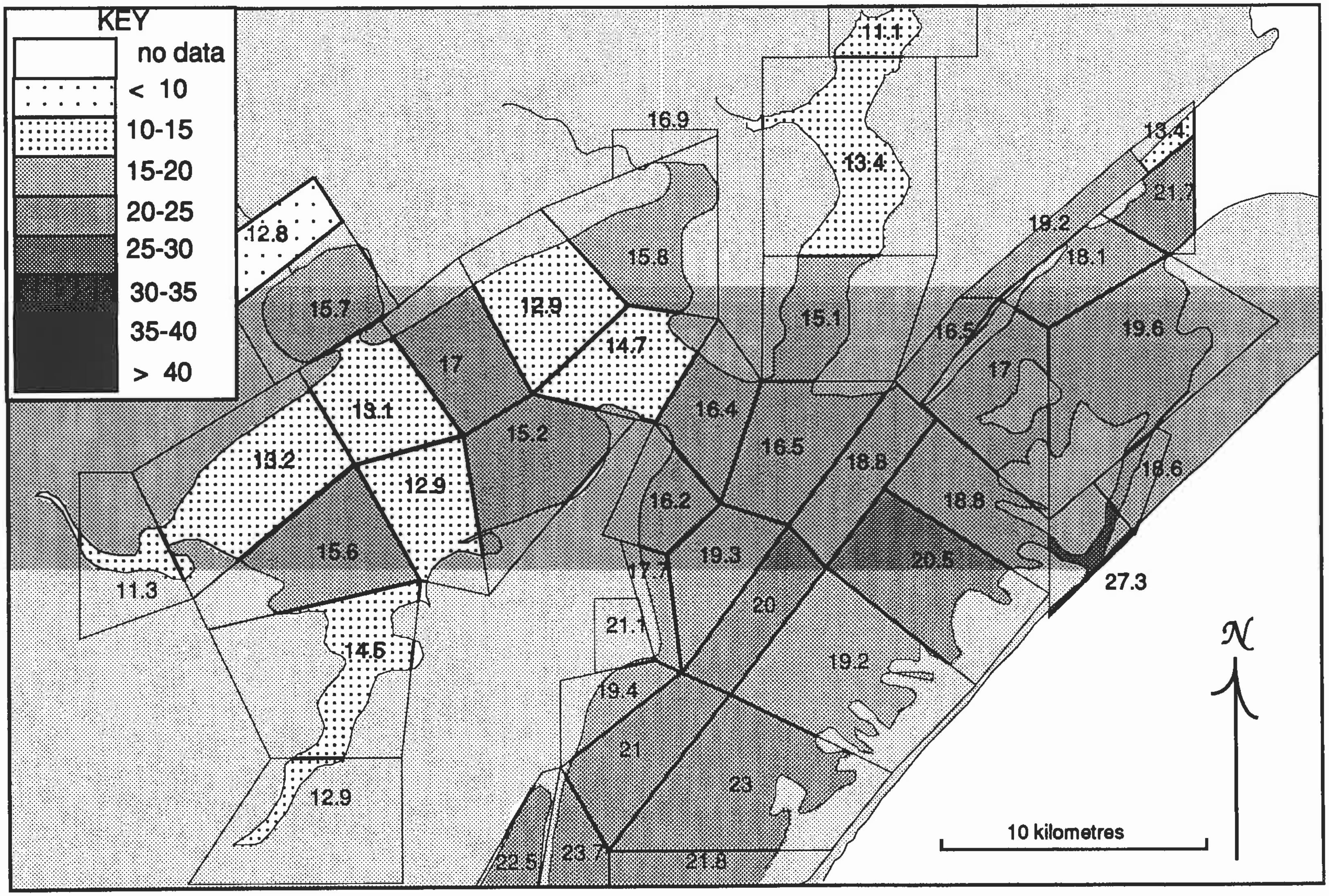

Figure 6-1. Period-of-record means of WQSAL, upper 1 m, for Aransas-Copano system

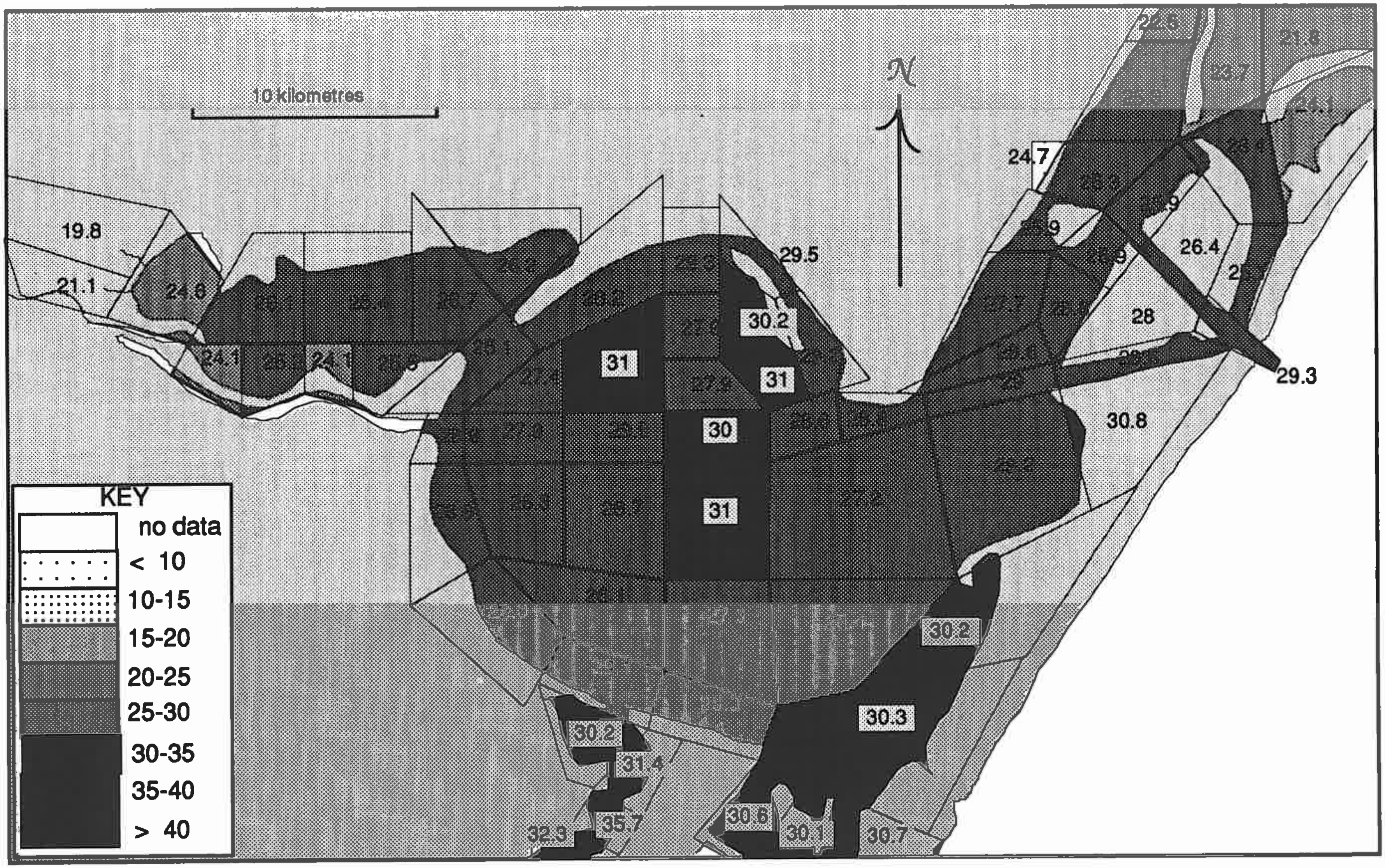

Figure 6-2. Period-of-record means of WQSAL, upper 1 m, for Corpus Christi system

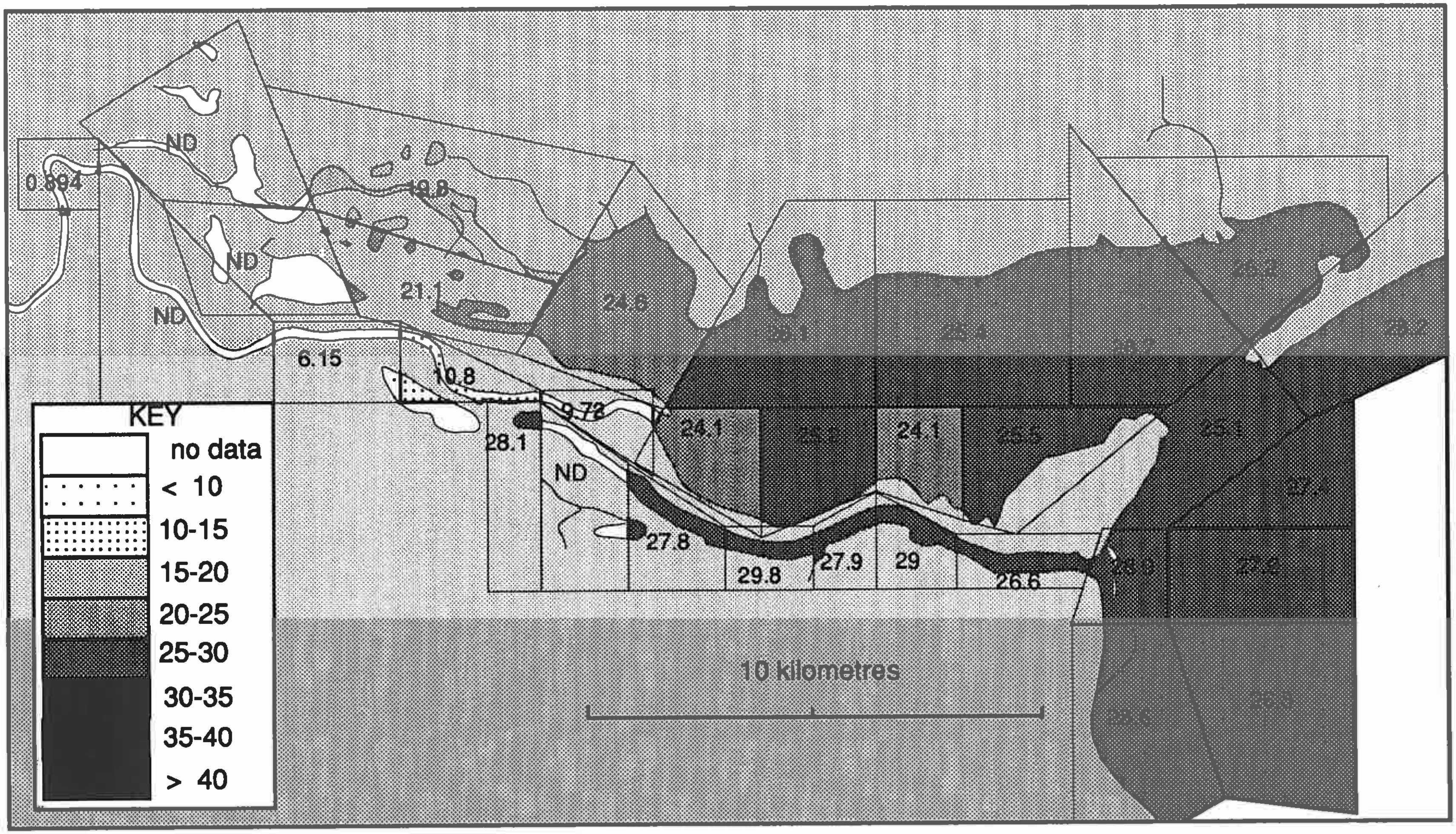

Figure 6-3. Period-of-record means of WQSAL, upper 1m, for Nueces Bay region, including Inner Harbor

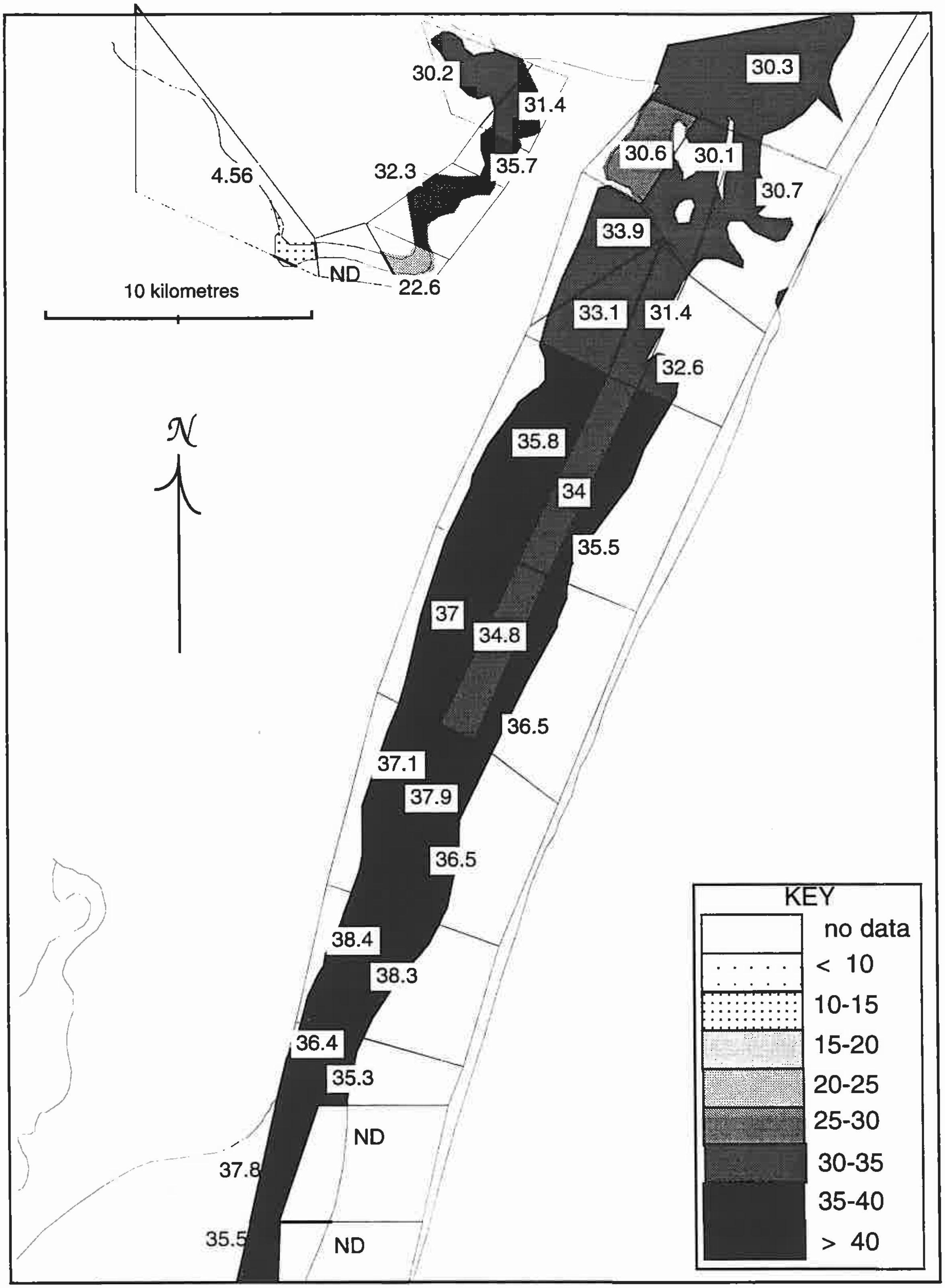

Figure 6-4. Period-of-record means of WQSAL, upper 1 m, for Upper Laguna Madre

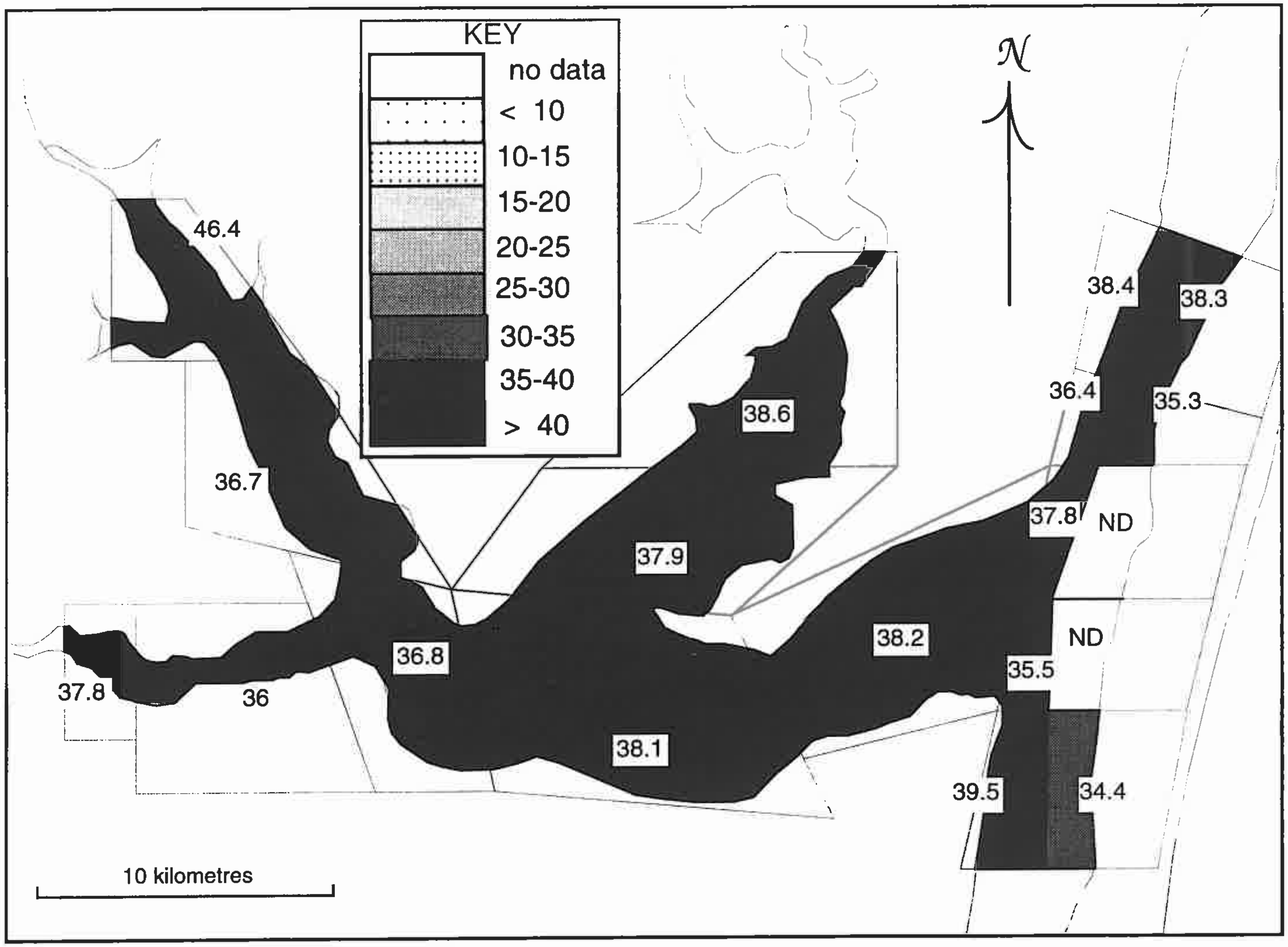

Figure 6-5. Period-of-record means of WQSAL, upper 1m, for Baffin Bay region

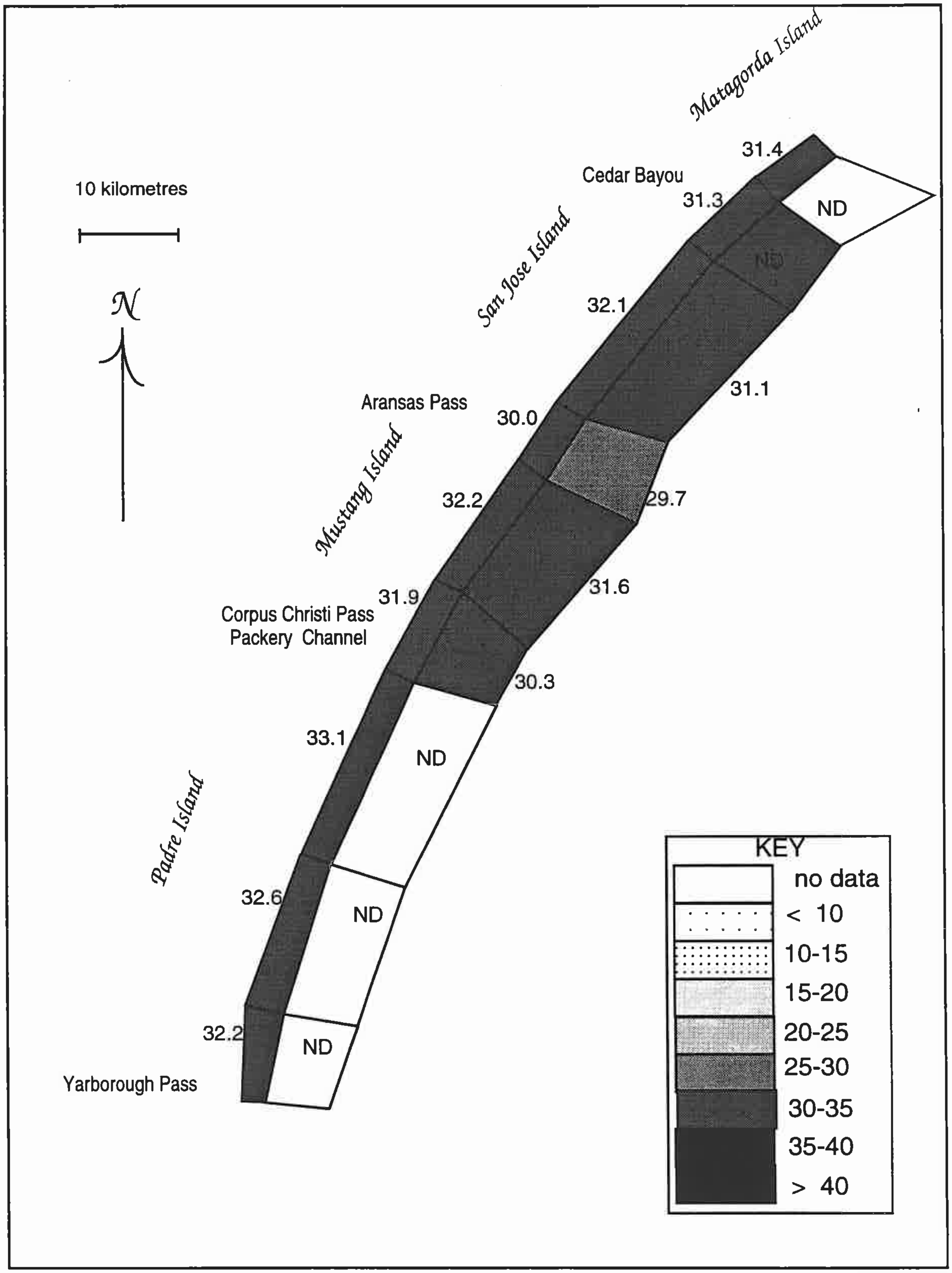

Figure 6-6. Period-of-record means of WQSAL, upper 1 m, for Gulf of Mexico

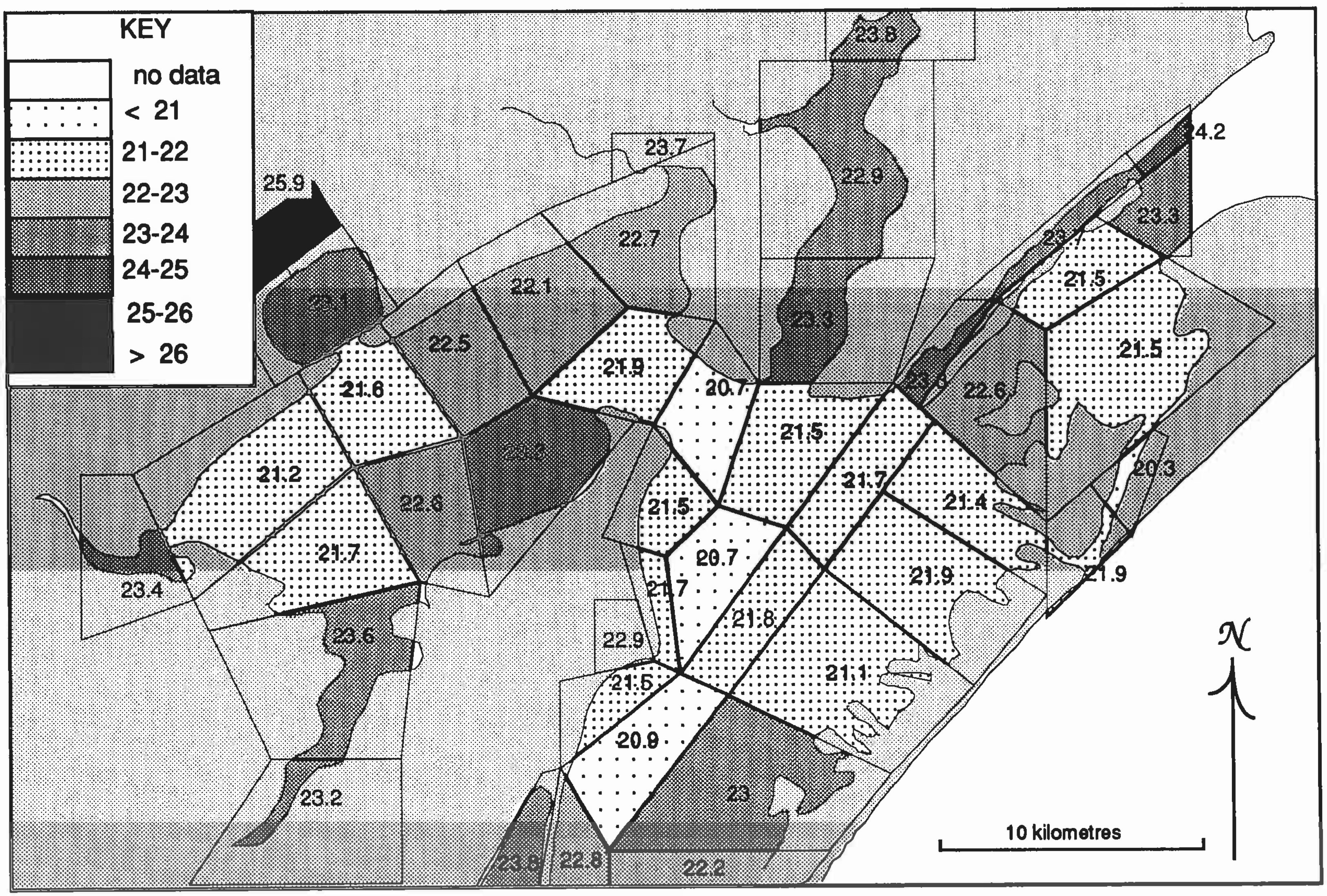

Figure 6-7. Period-of-record means WQTEMP, upper 1 m, for Aransas-Copano system

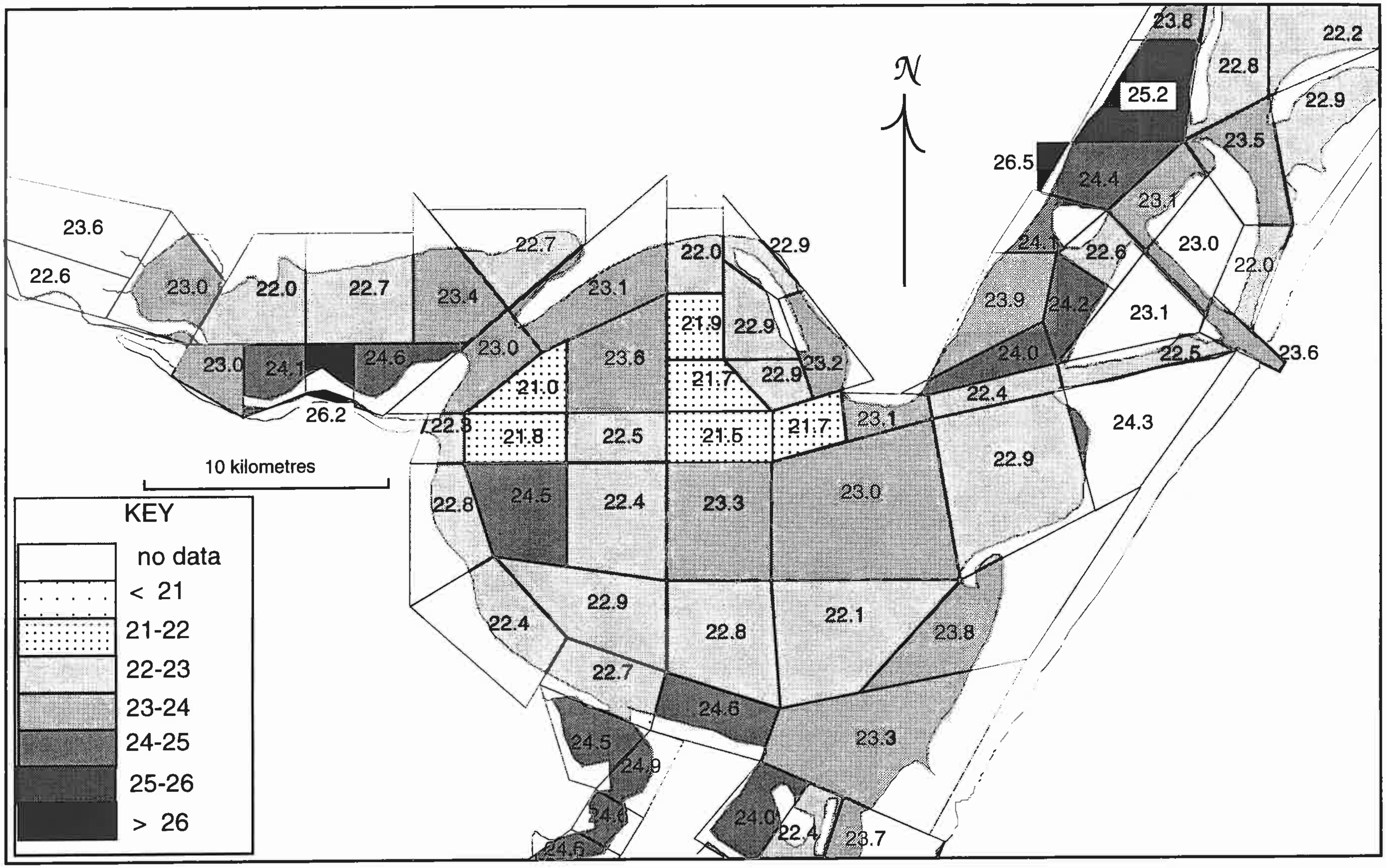

Figure 6-8. Period-of-record means of WQTEMP, upper 1 m, for Corpus Christi system

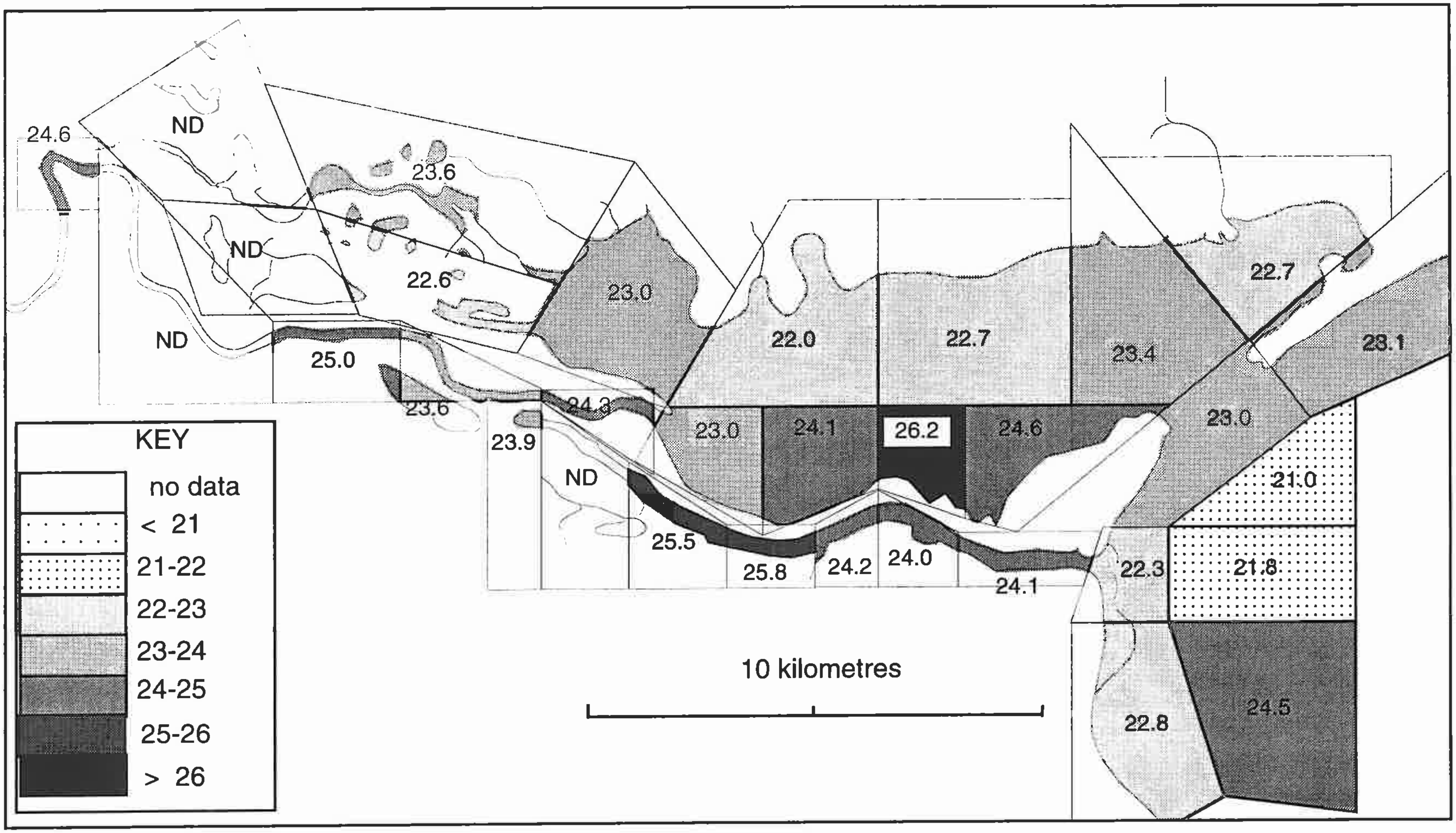

Figure 6-9. Period-of-record means of WQTEMP, upper 1 m, for Nueces Bay region, including Inner Harbor

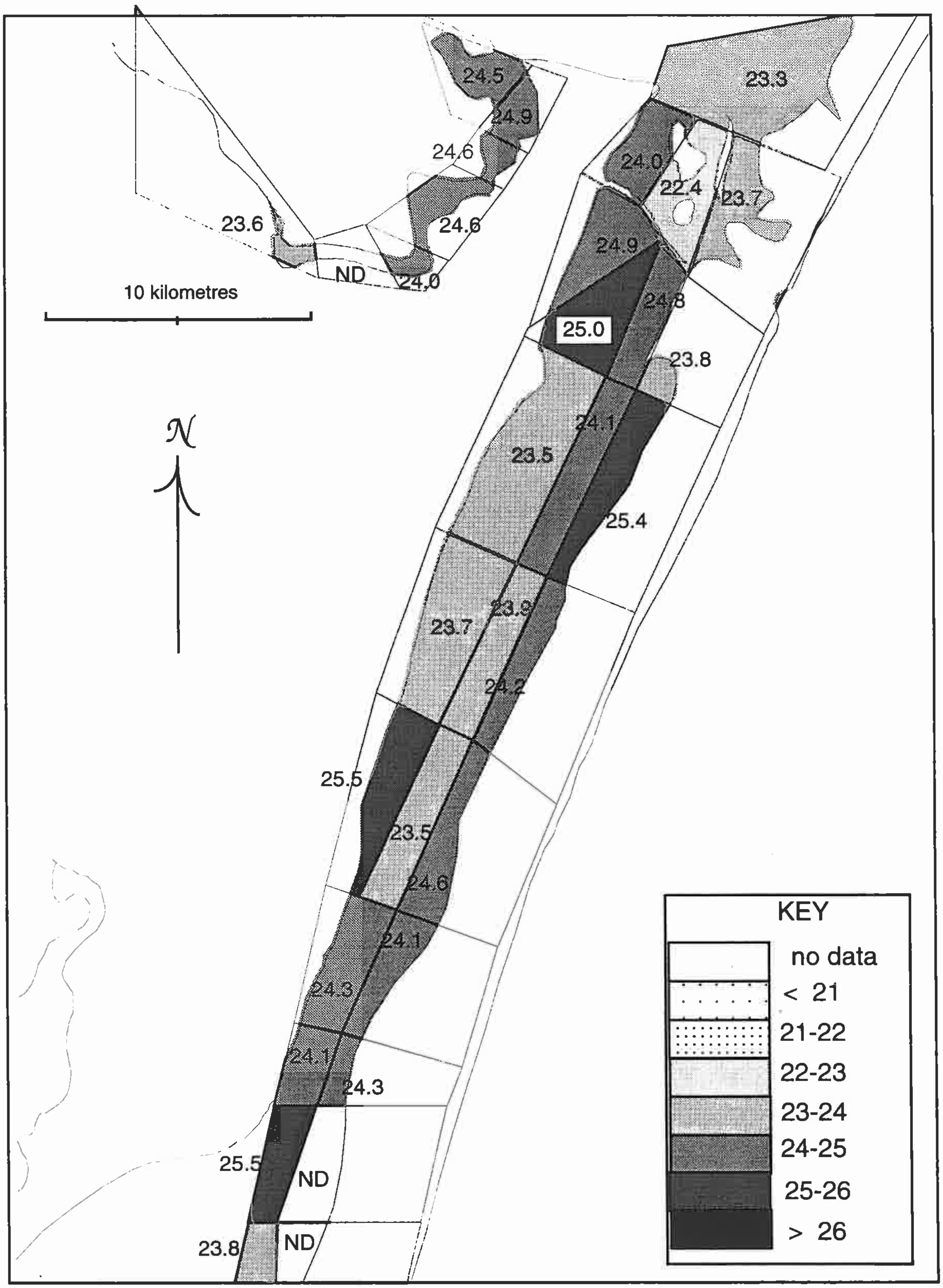

Figure 6-10. Period-of-record means of WQTEMP, upper 1 m, for Upper Laguna Madre

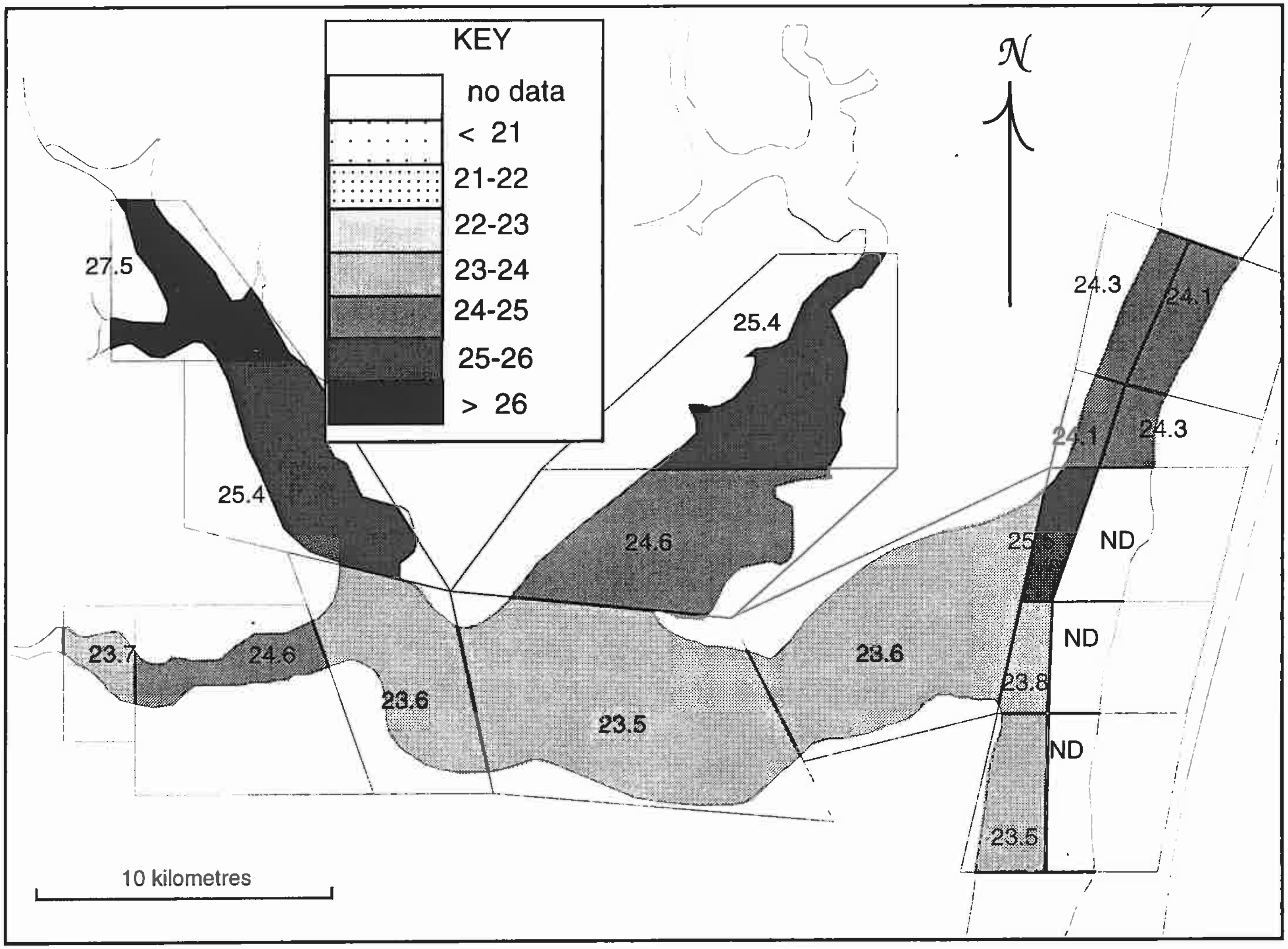

Figure 6-11. Period-of-record means of WQTEMP, upper 1 m, for Baffin Bay region

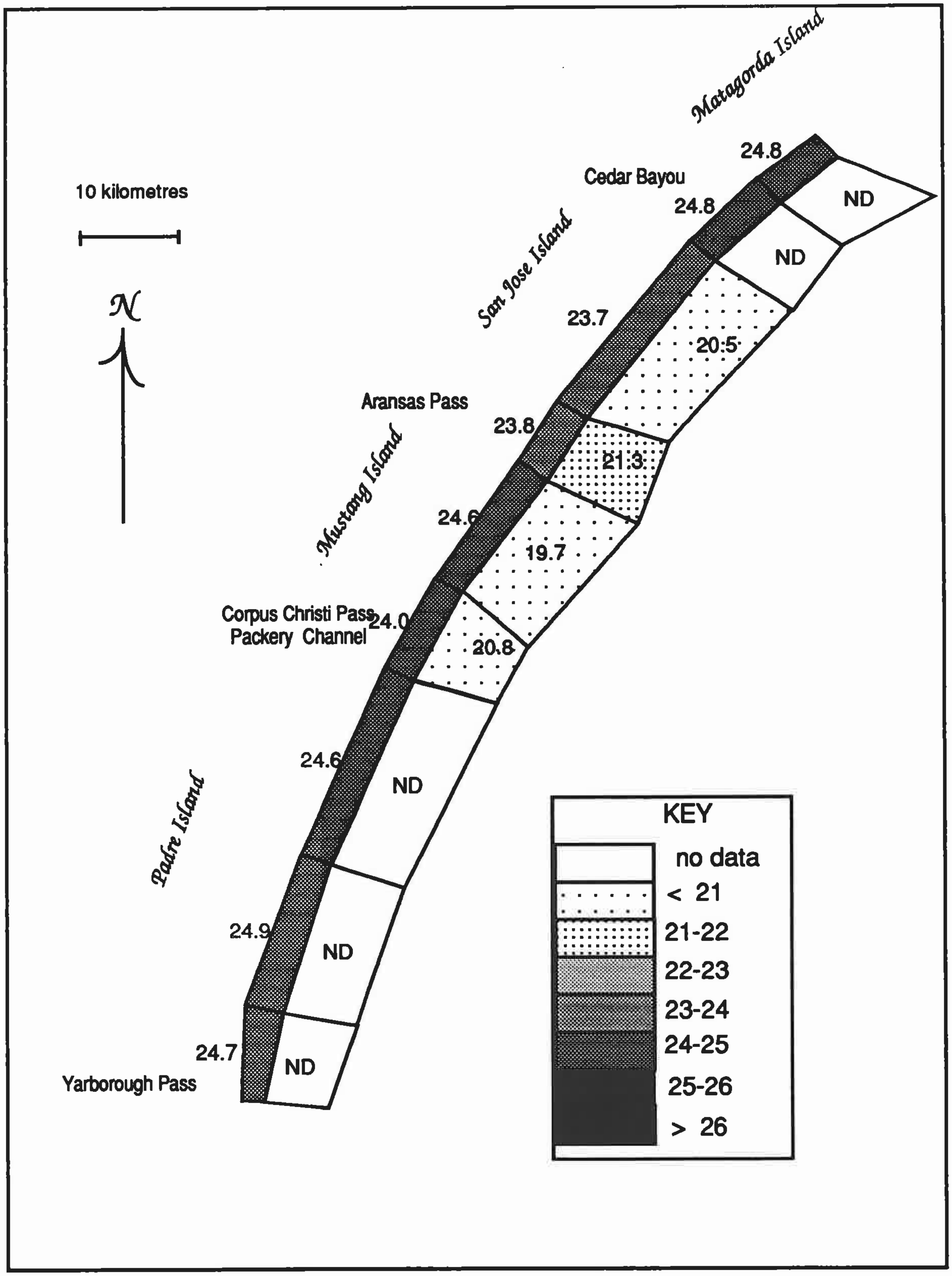

Figure 6-12. Period-of-record means of WQTEMP, upper 1 m, for Gulf of Mexico

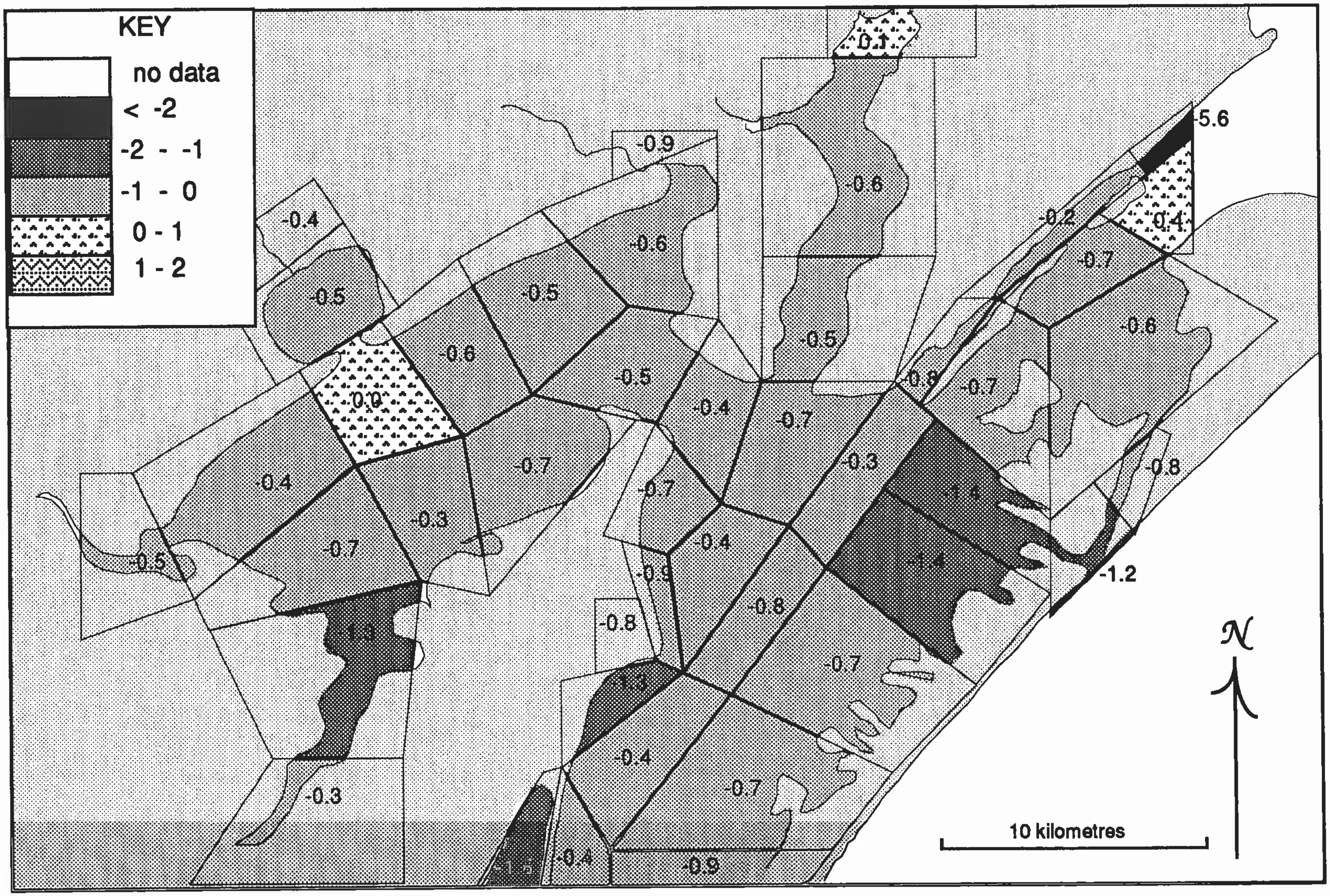

Figure 6-13. Period-of-record means of WQDODEF, upper 1 m, for Aransas-Copano system

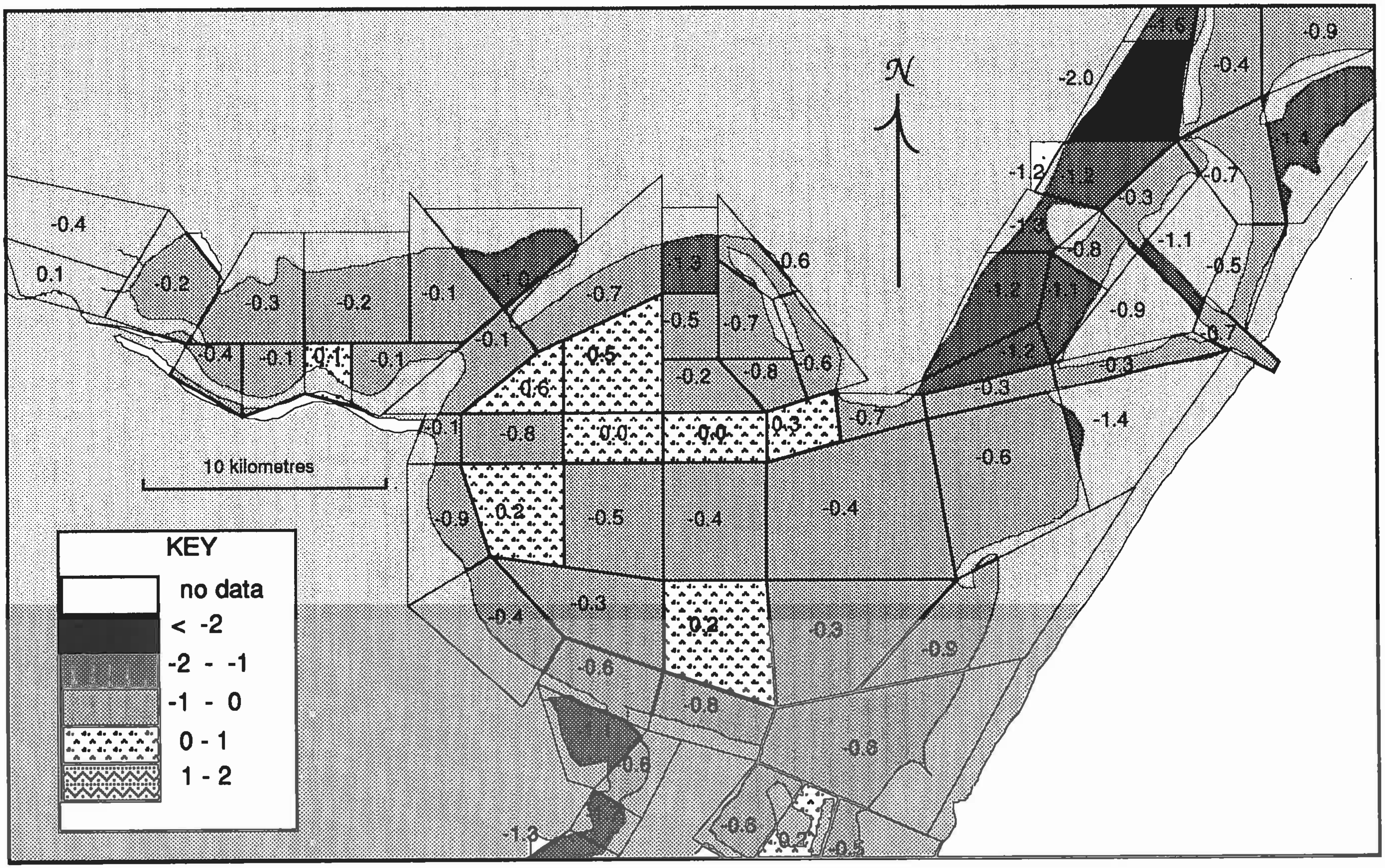

Figure 6-14. Period-of-record means of WQDODEF, upper 1 m, for Corpus Christi system

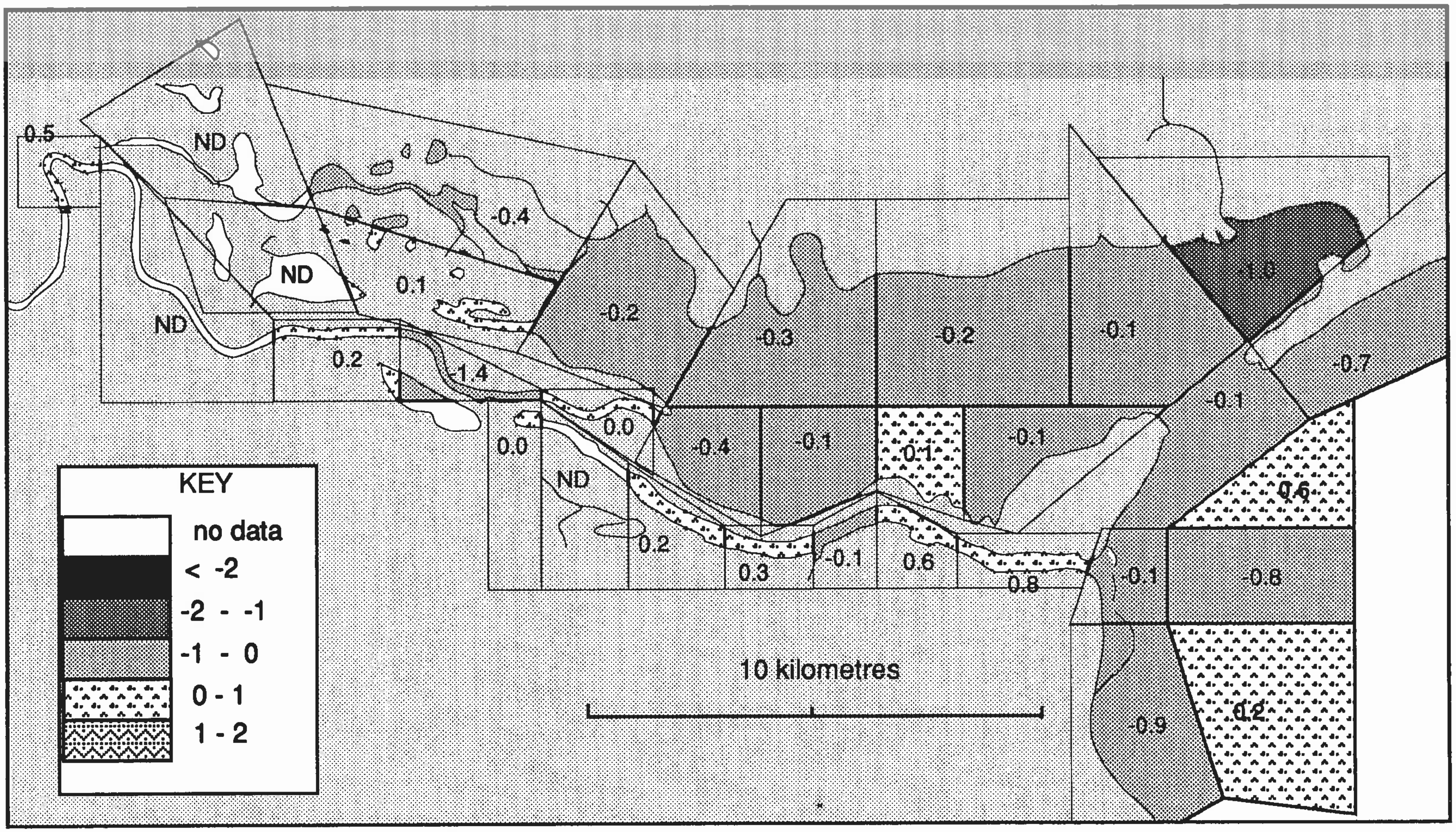

Figure 6-15. Period-of-record means of WQDODEF, upper 1m, for Nueces Bay region, including Inner Harbor

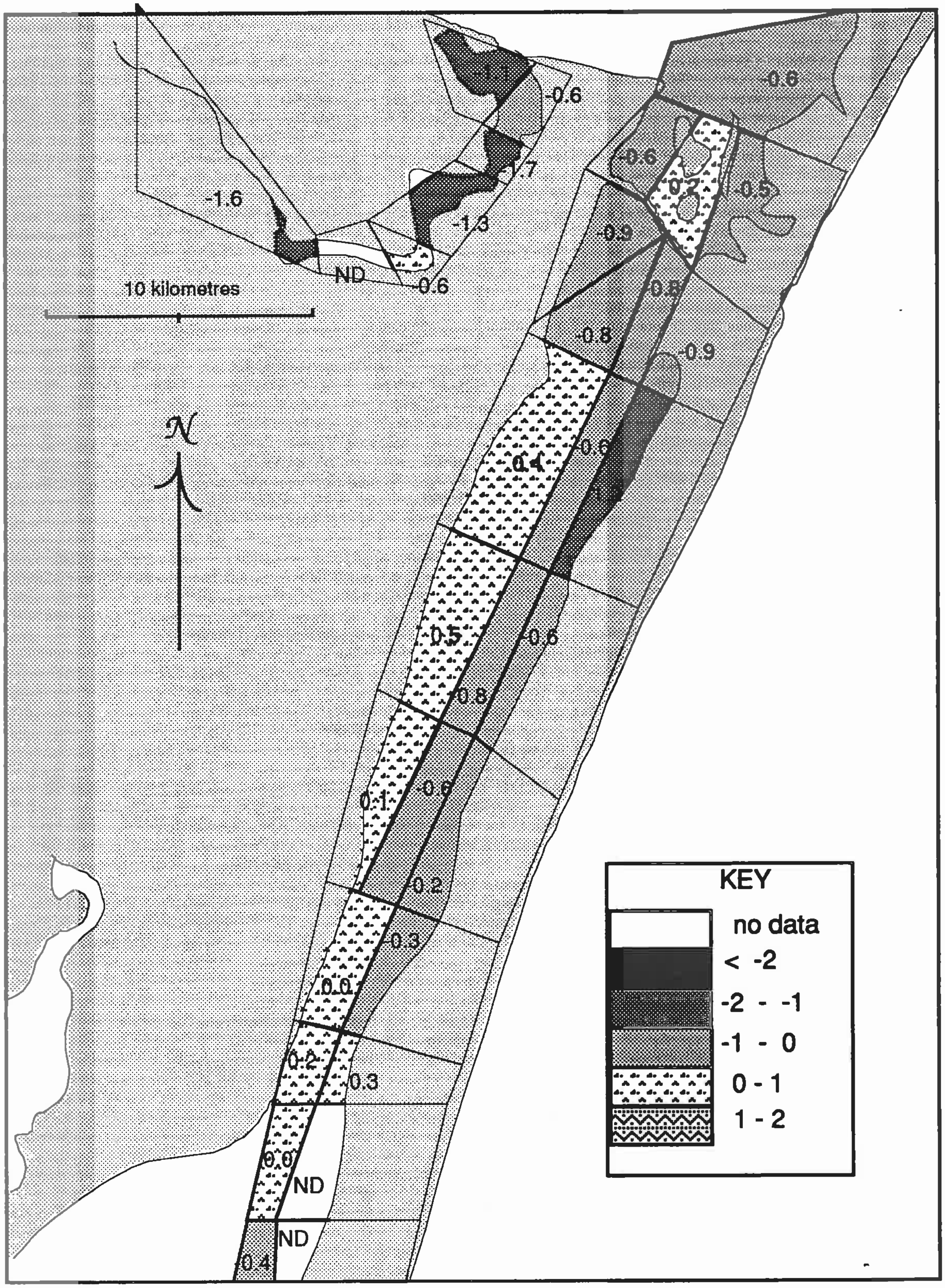

Figure 6-16. Period-of-record means of WQDODEF, upper 1 m, for Upper Laguna Madre

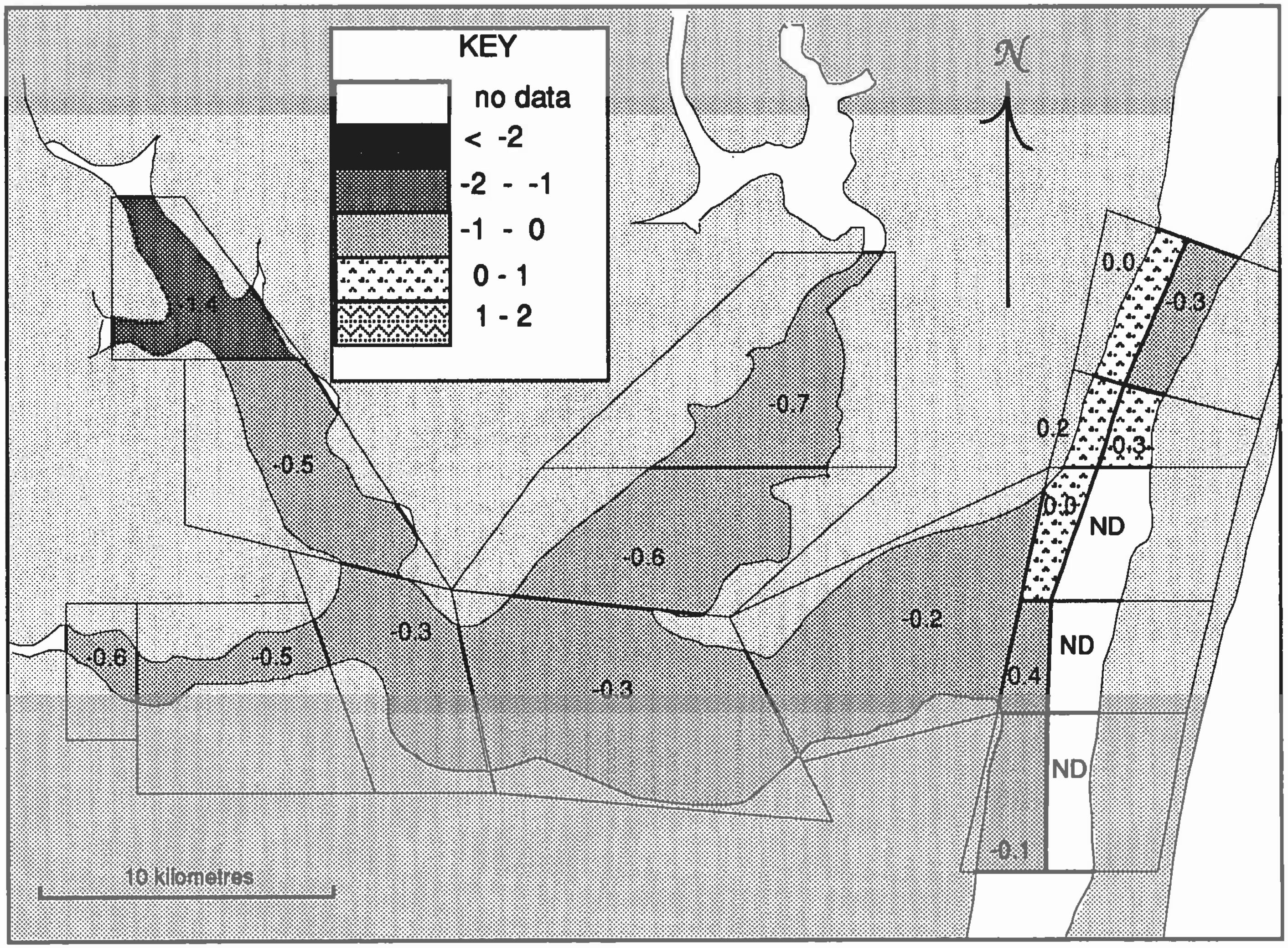

Figure 6-17. Period-of-record means of WQDODEF, upper 1 m, for Baffin Bay region

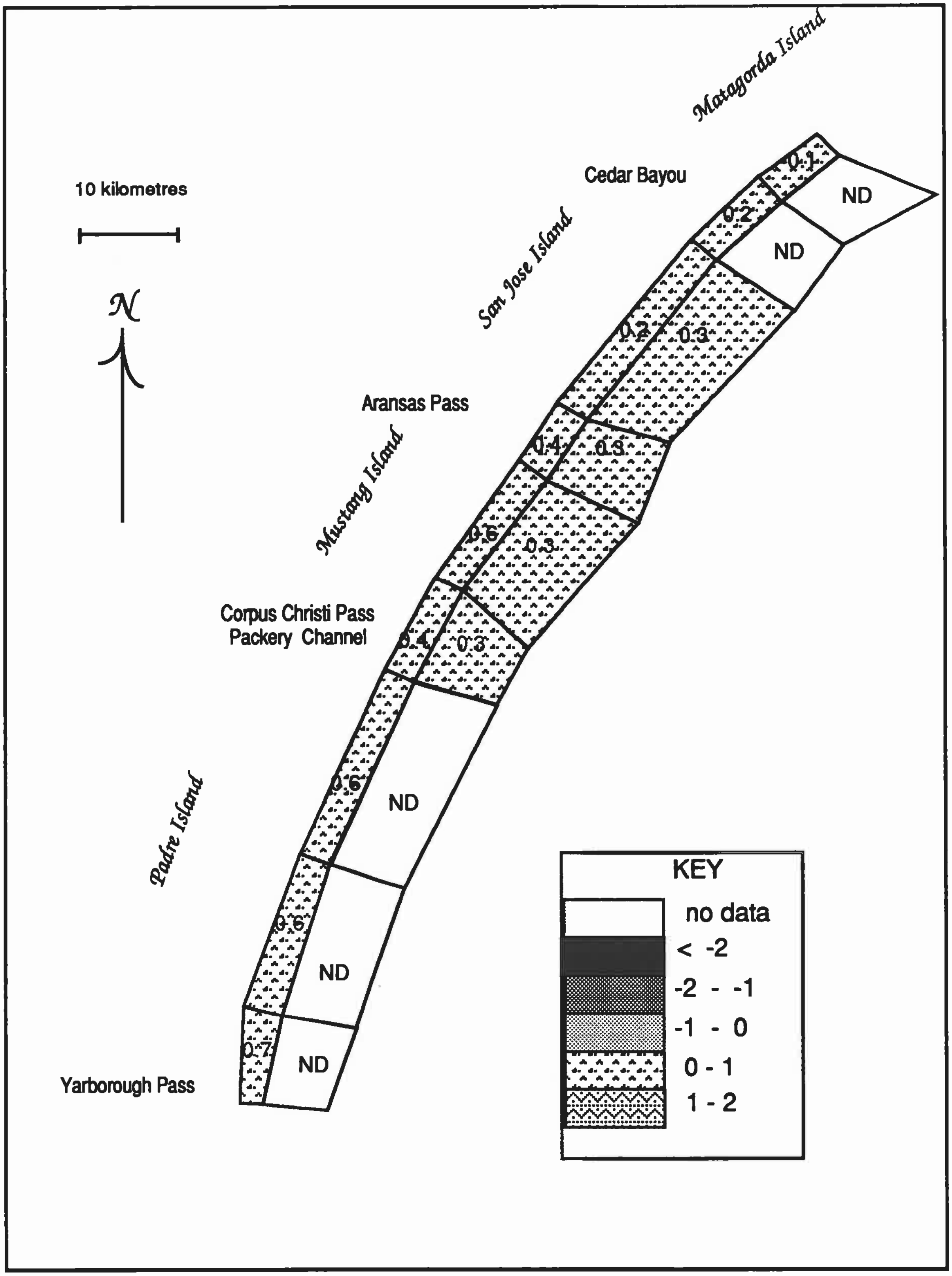

Figure 6-18. Period-of-record means of WQDODEF, upper 1 m, for Gulf of Mexico

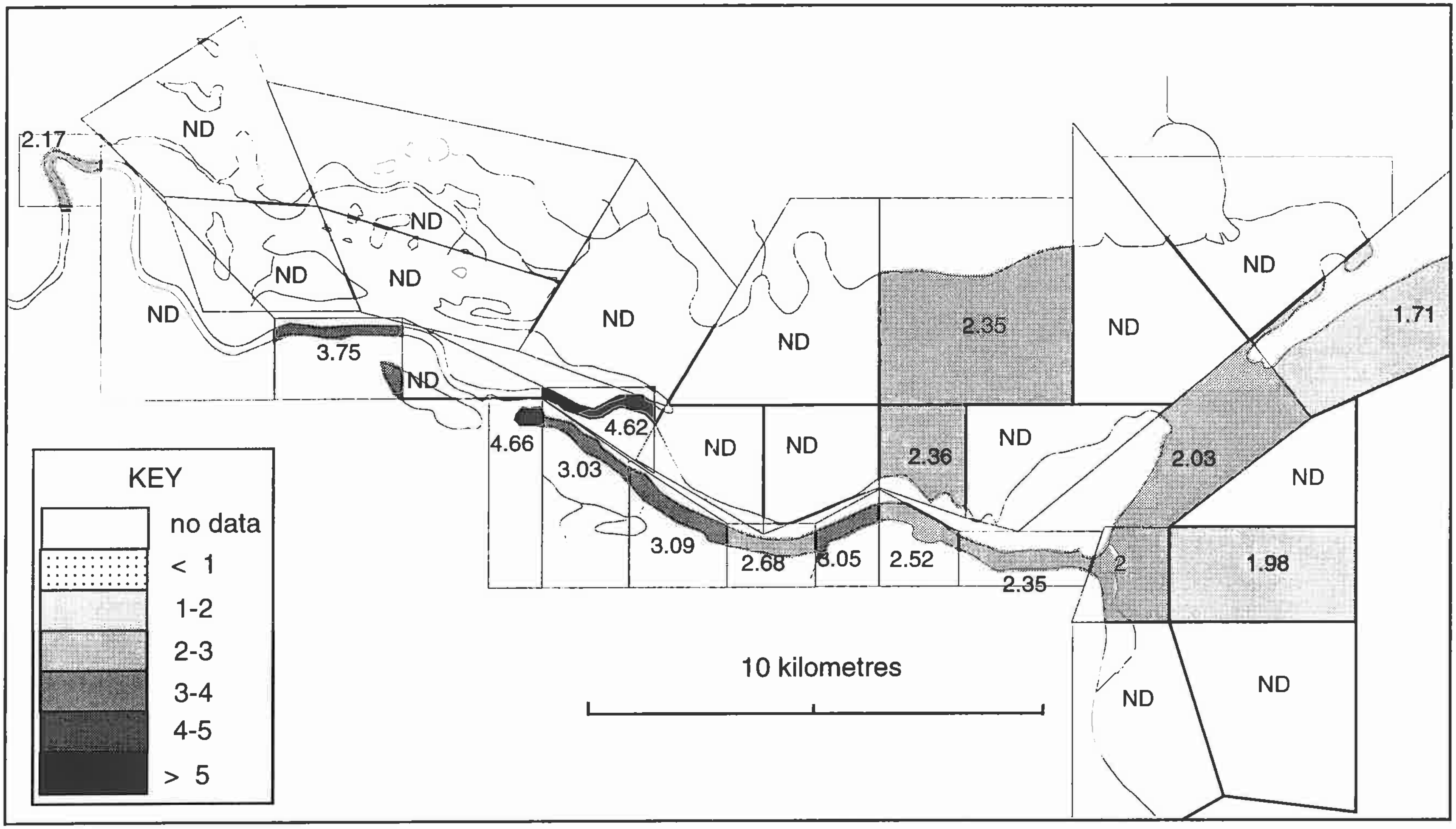

Figure 6-19. WQBOD5 period-of-record means for Nueces Bay region, including Inner Harbor

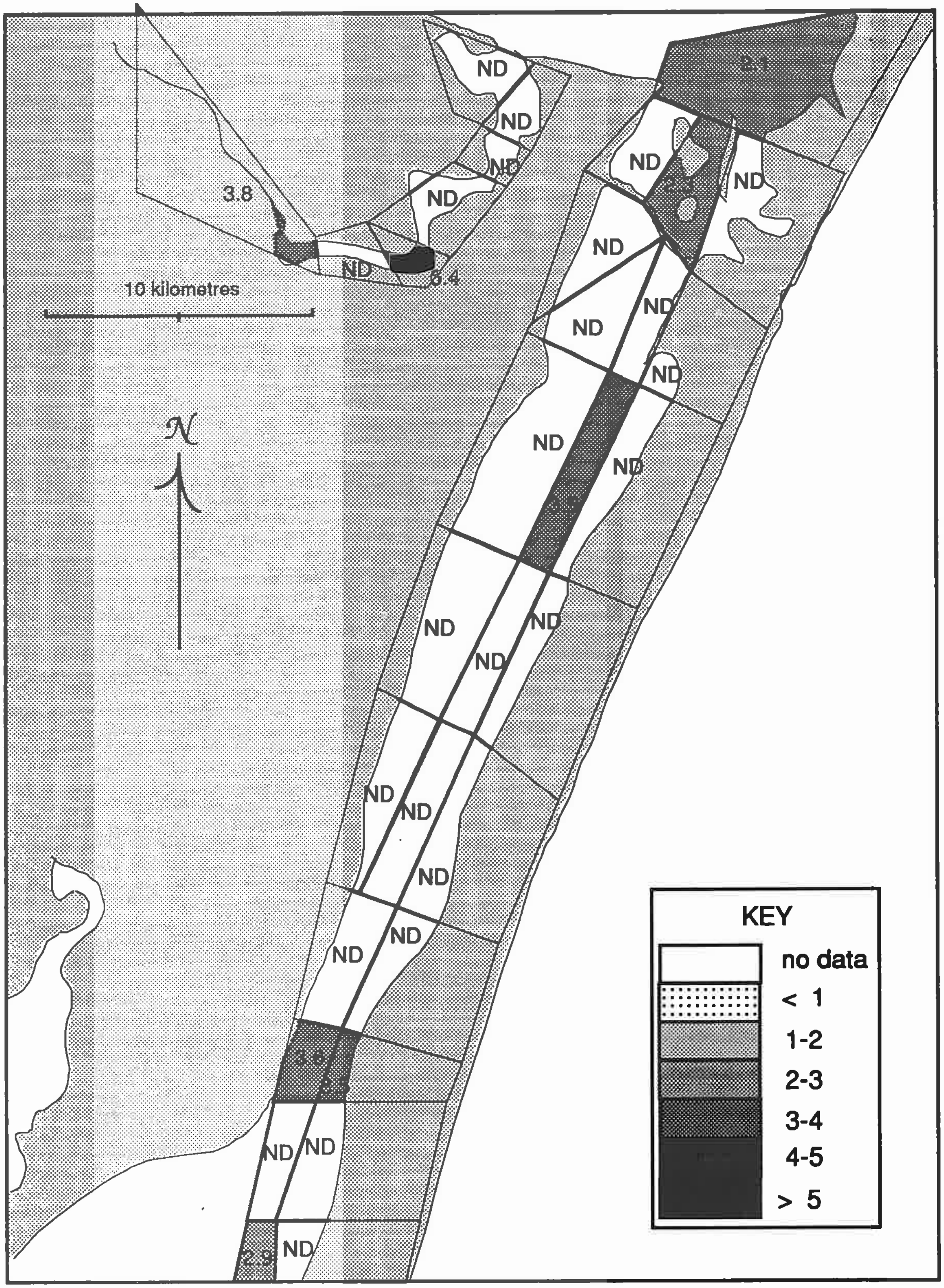

Figure 6-20. Period-of-record means of WQBOD5 for Upper Laguna Madre and Oso Bay

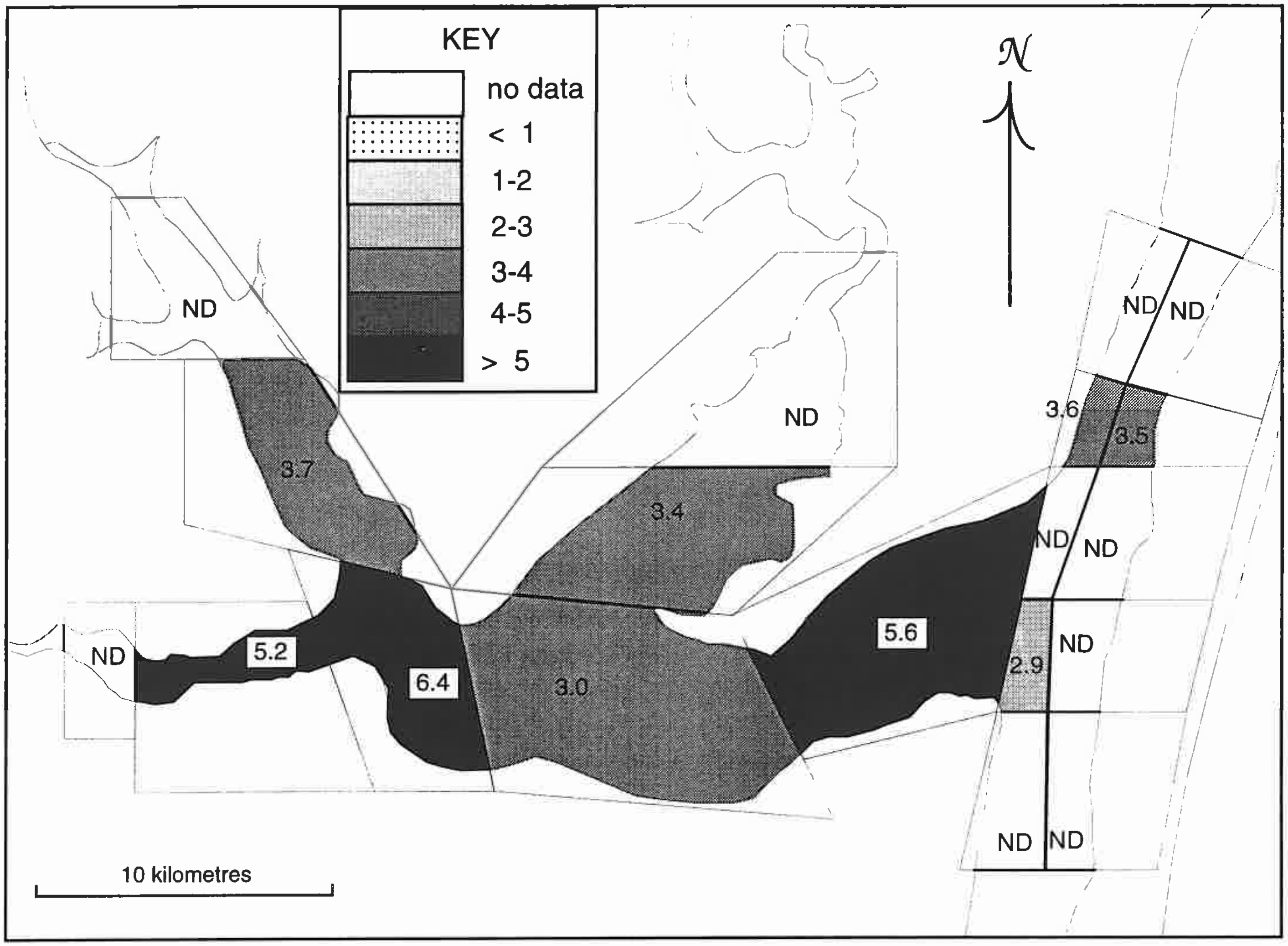

Figure 6-21. Period-of-record means of WQBOD5 for Baffin Bay region

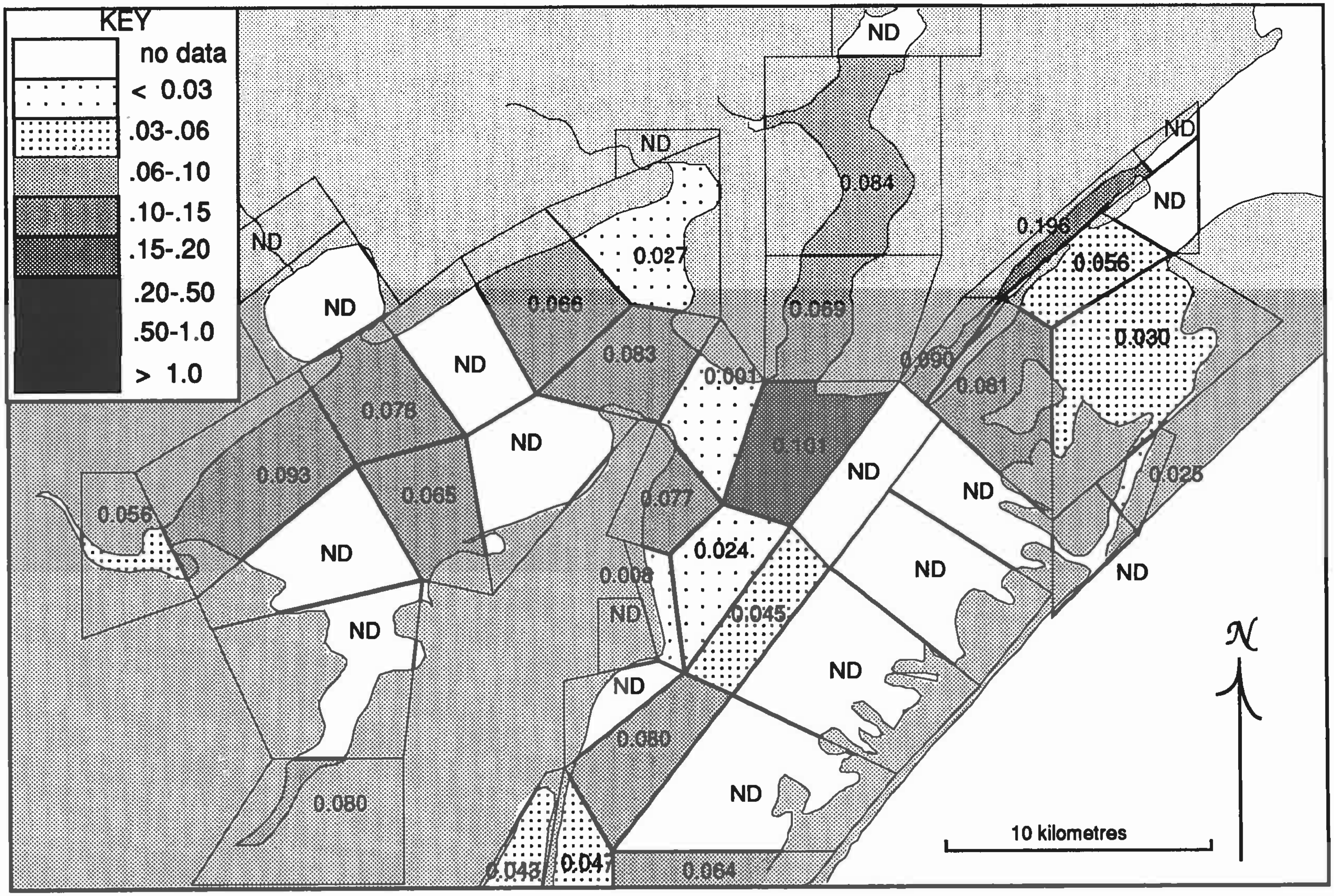

Figure 6-22. Period-of-record means of WQAMMN for Aransas-Copano system

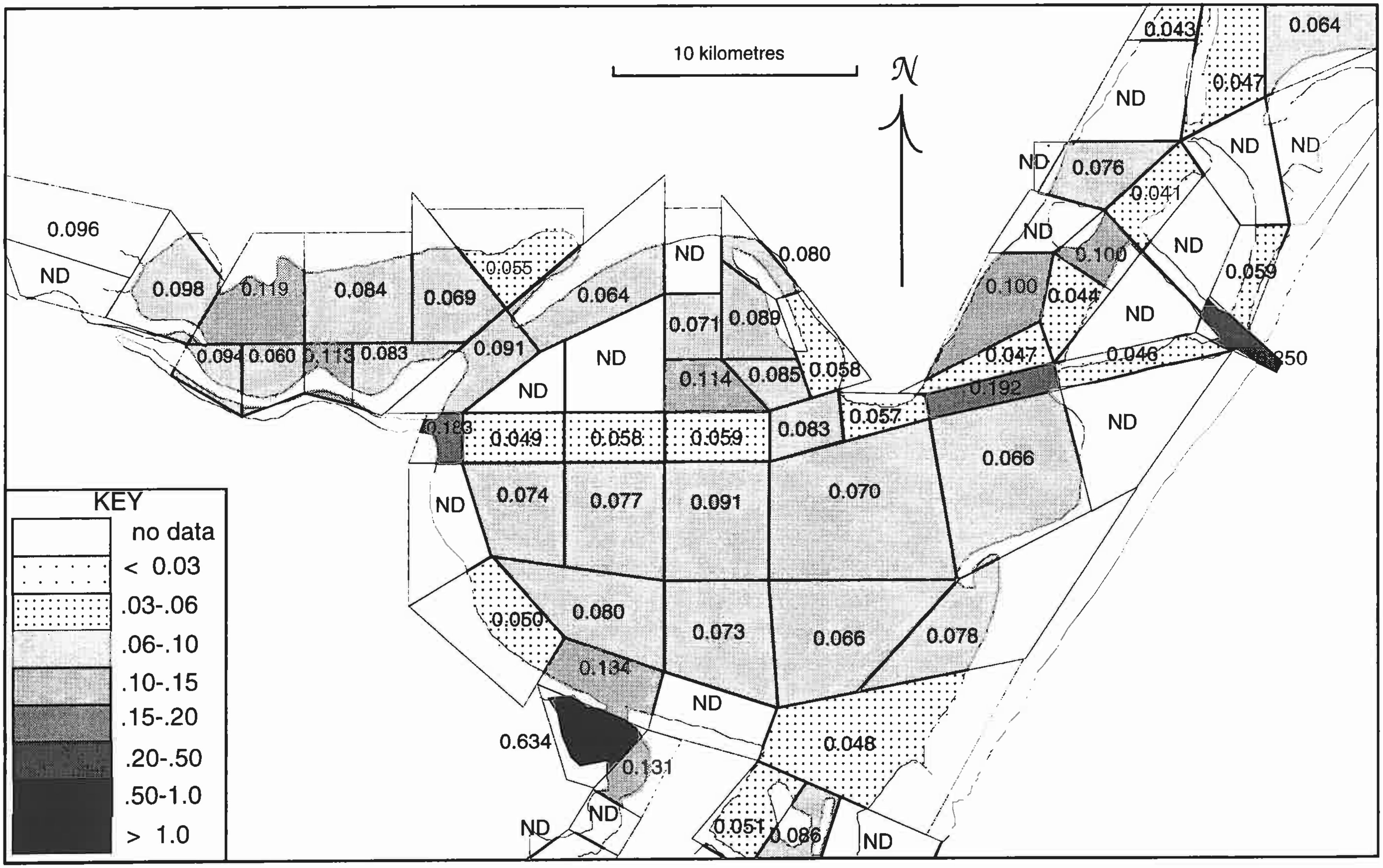

Figure 6-23. Period-of-record means of WQAMMN for Corpus Christi system

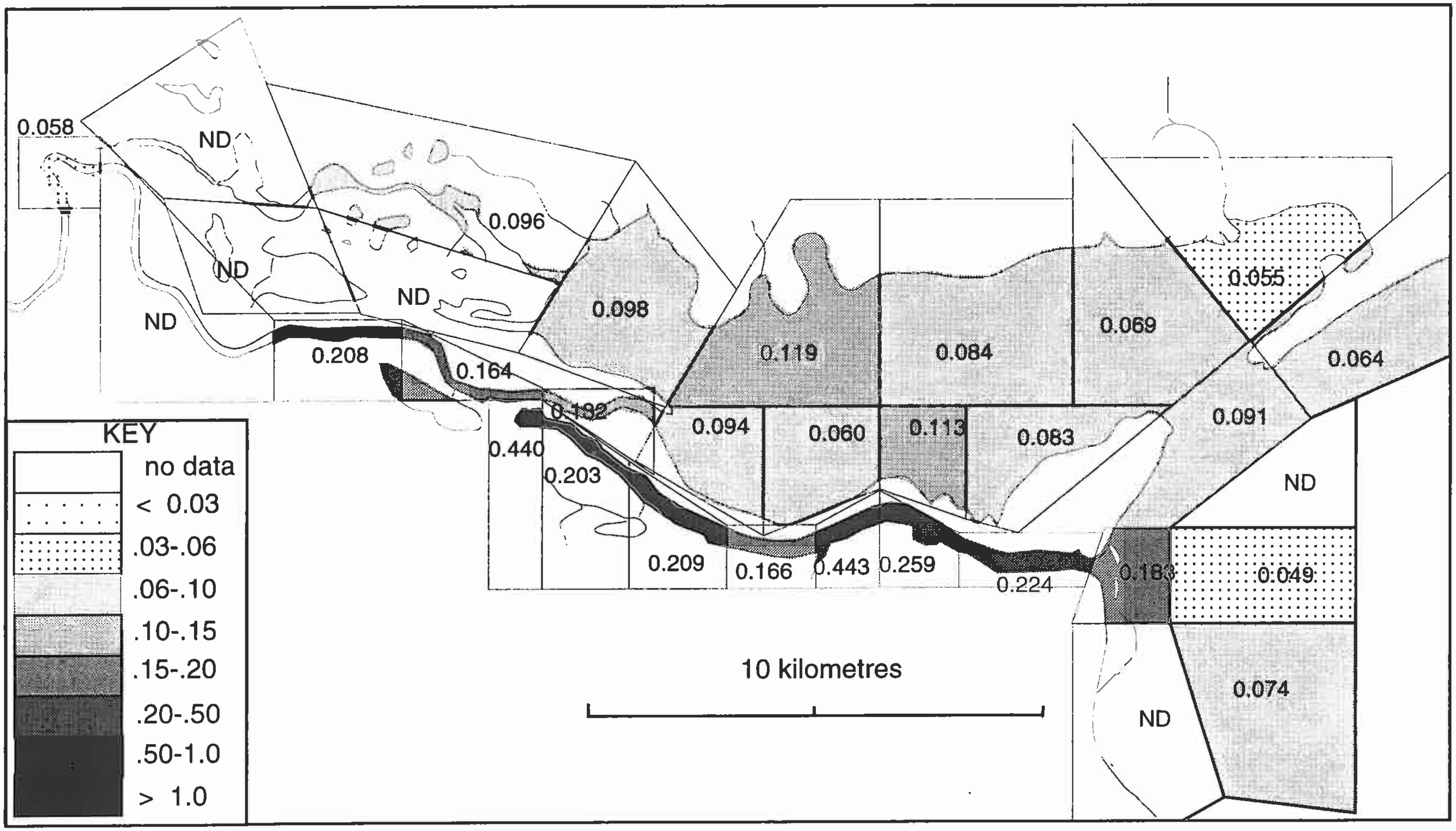

Figure 6-24. Period-of-record means of WQAMMN for Nueces Bay region, including Inner Harbor

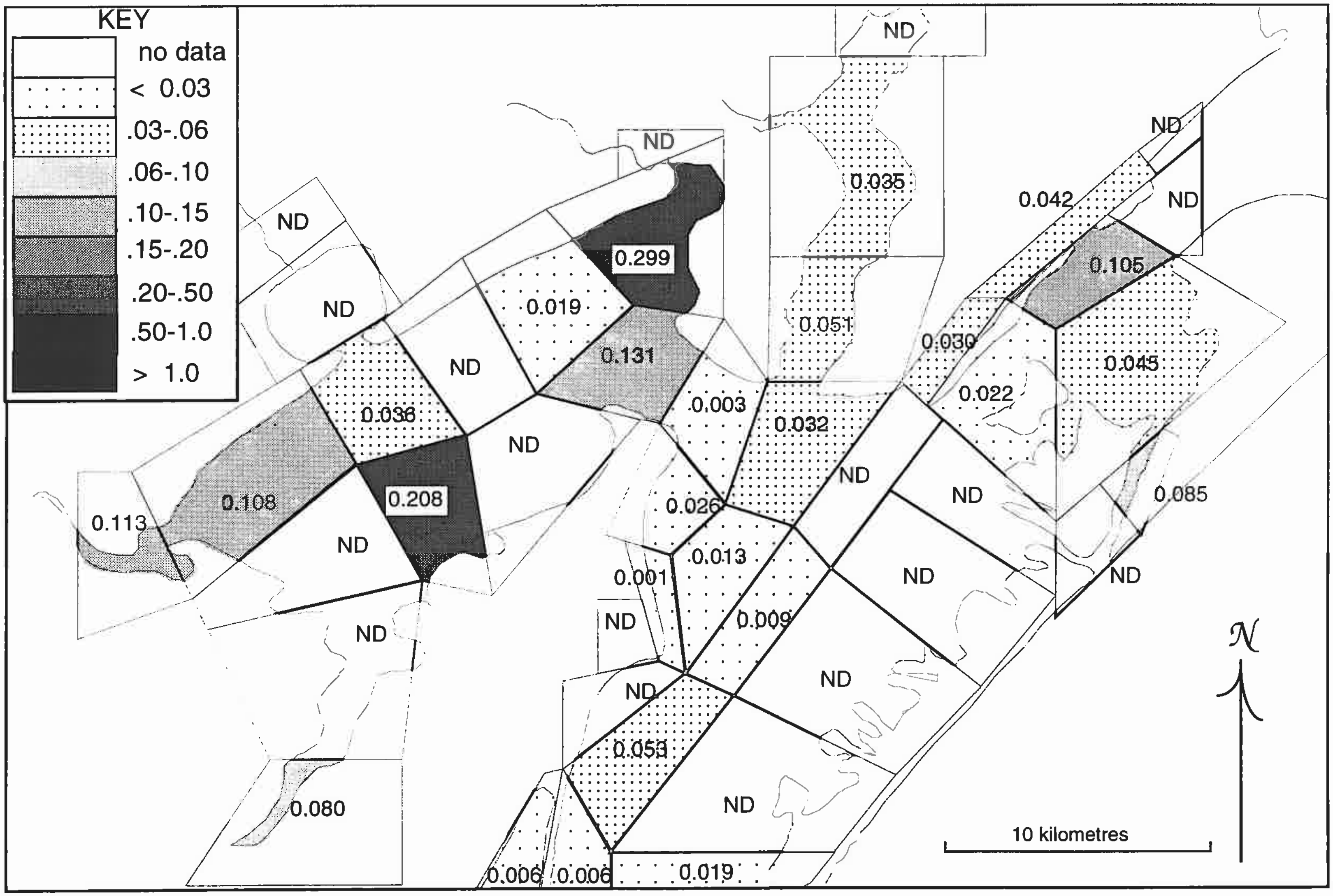

Figure 6-25. Period-of-record means of WQNO3N for Aransas-Copano system

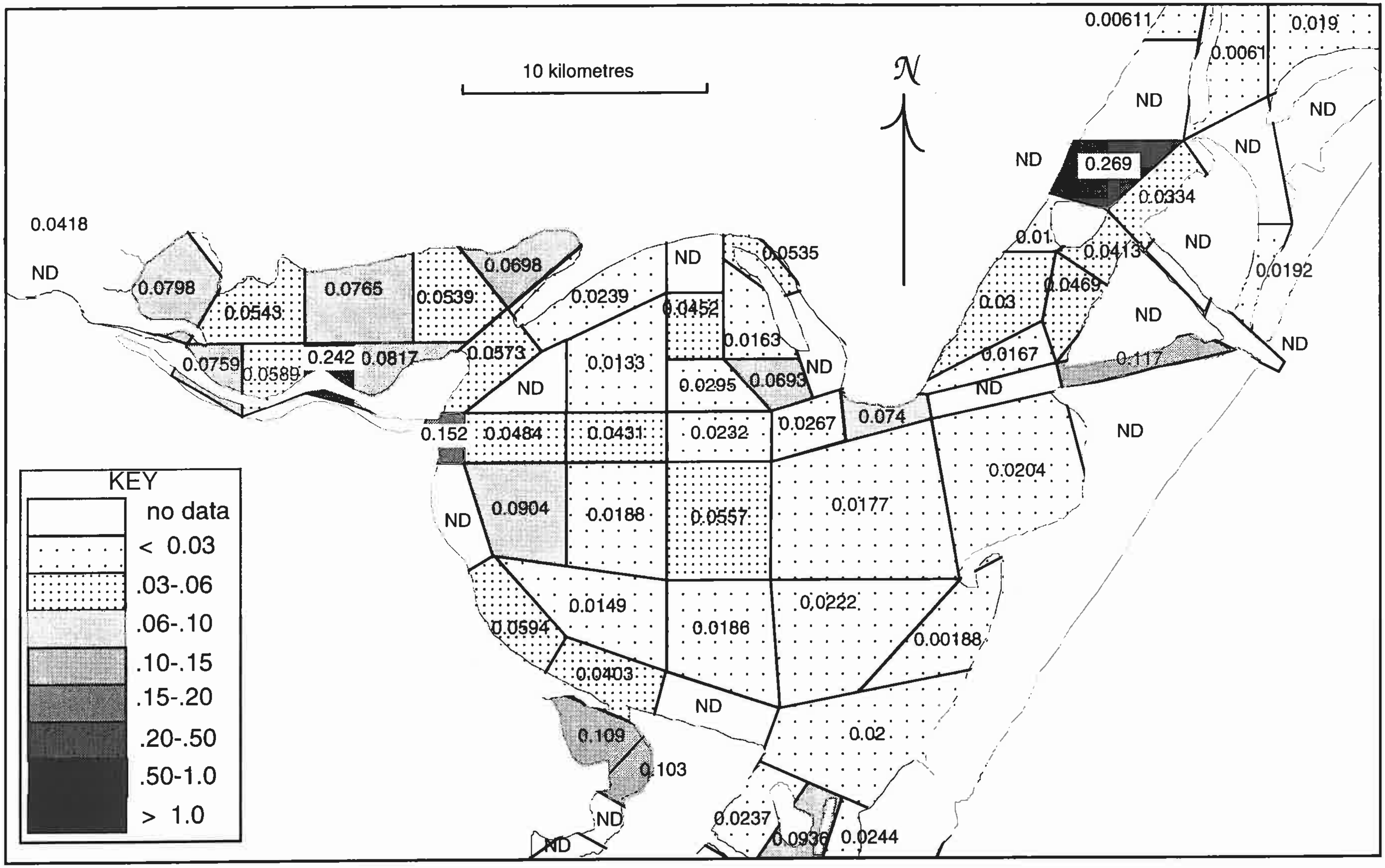

Figure 6-26. WQNO3N period-of-record means for Corpus Christi system

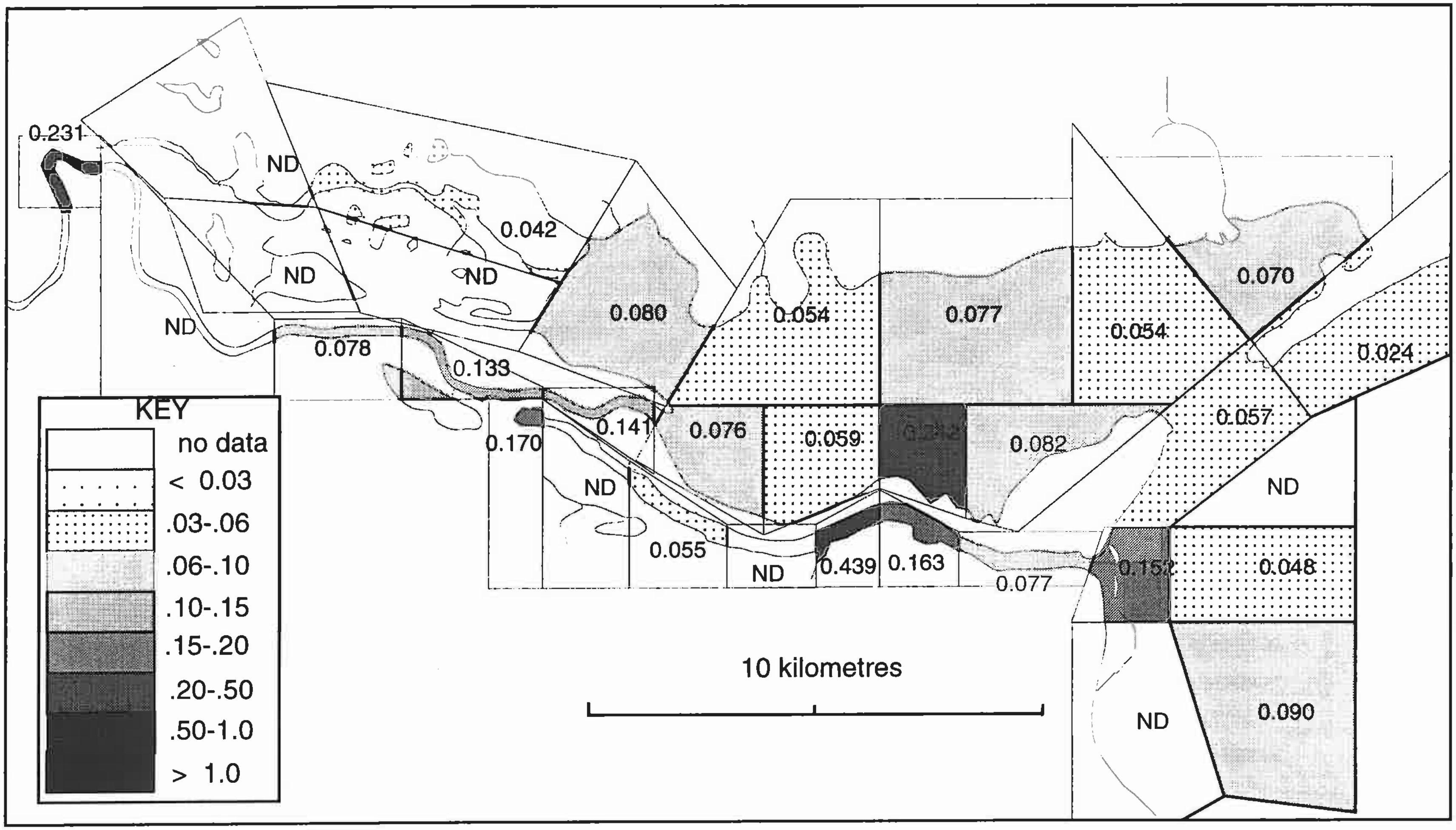

Figure 6-27. Period-of-record means of WQNO3N for Nueces Bay region, including Inner Harbor

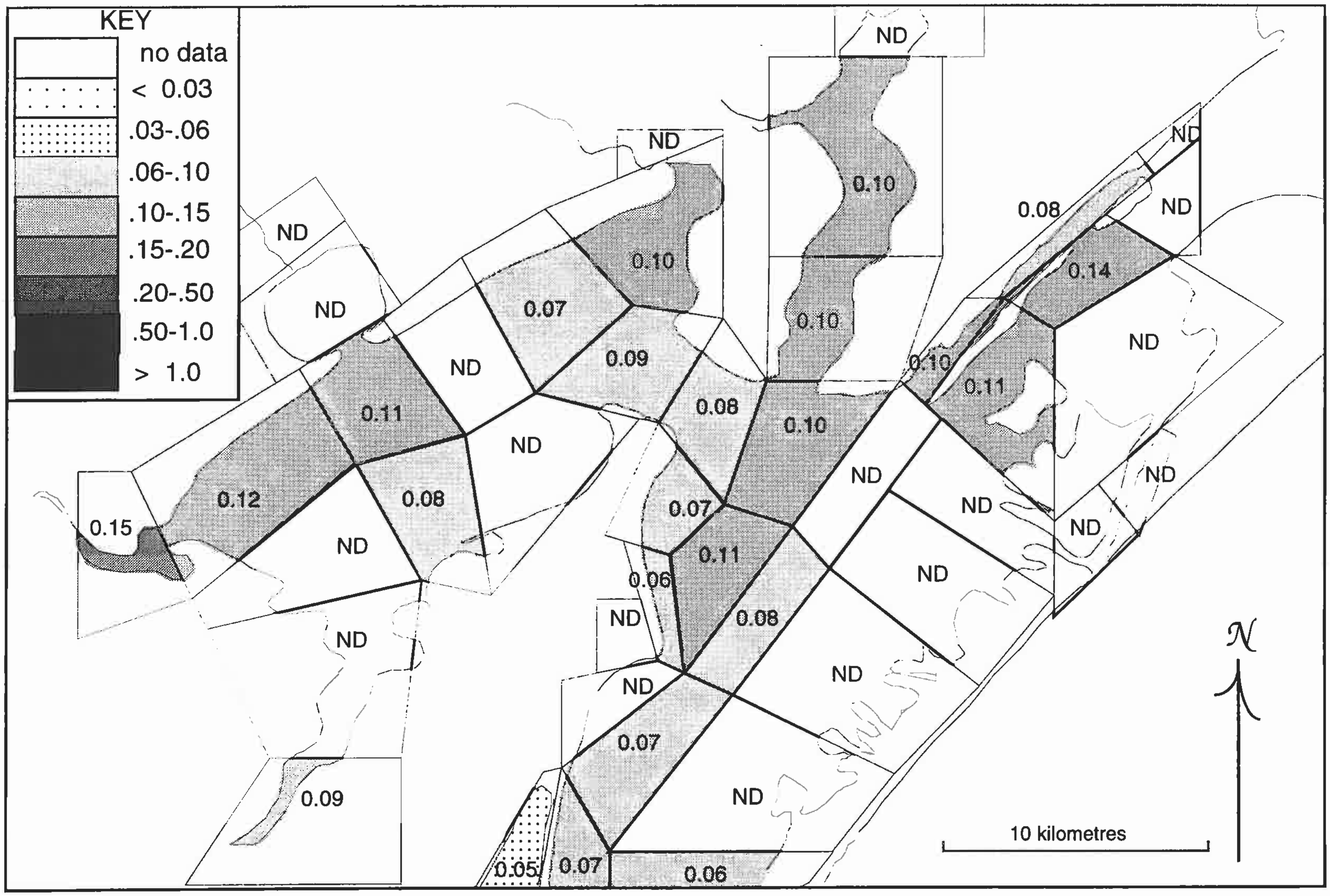

Figure 6-28. Period-of-record means of WQTOTP for Aransas-Copano system

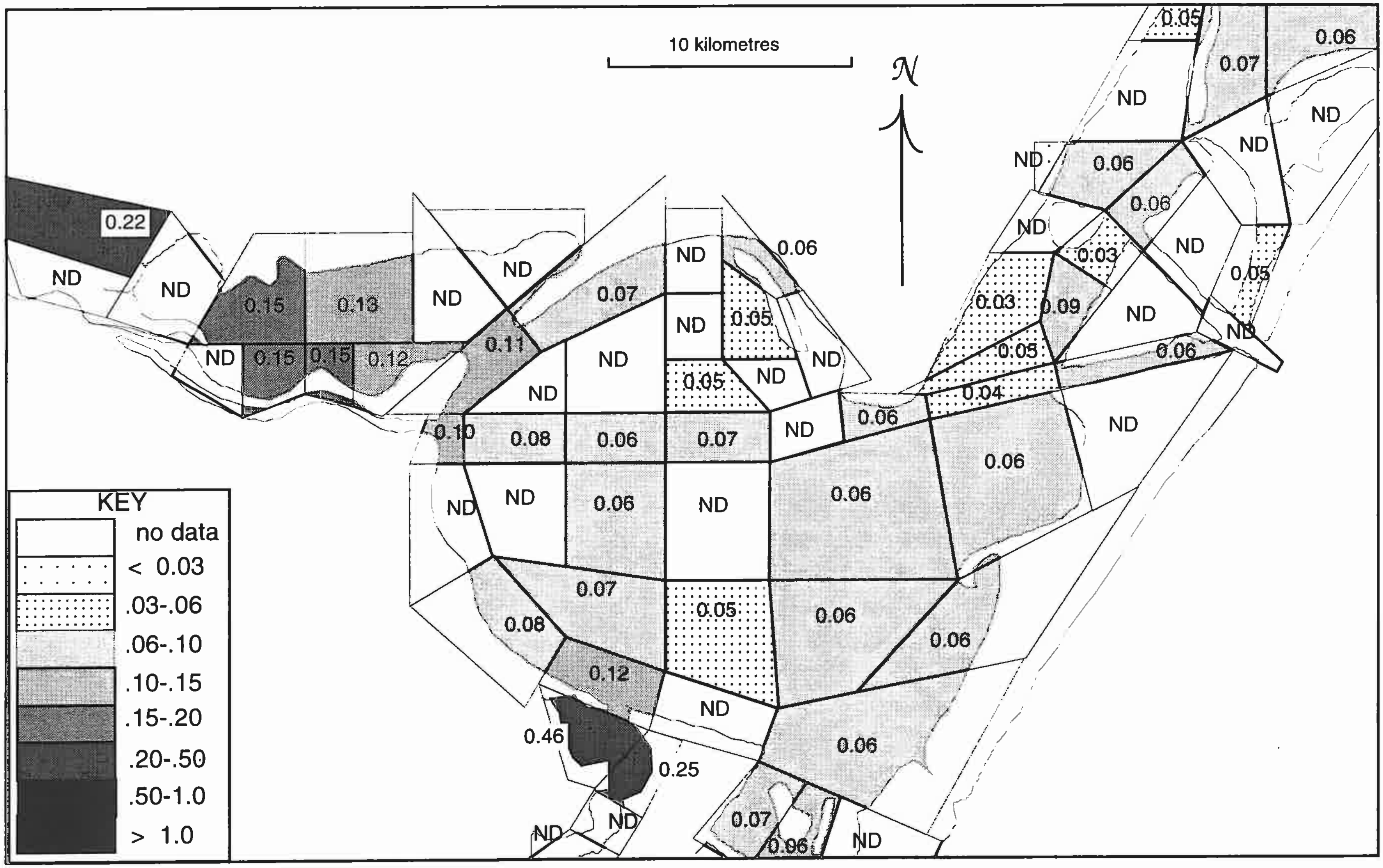

Figure 6-29. Period-of-record means of WQTOTP for Corpus Christi system

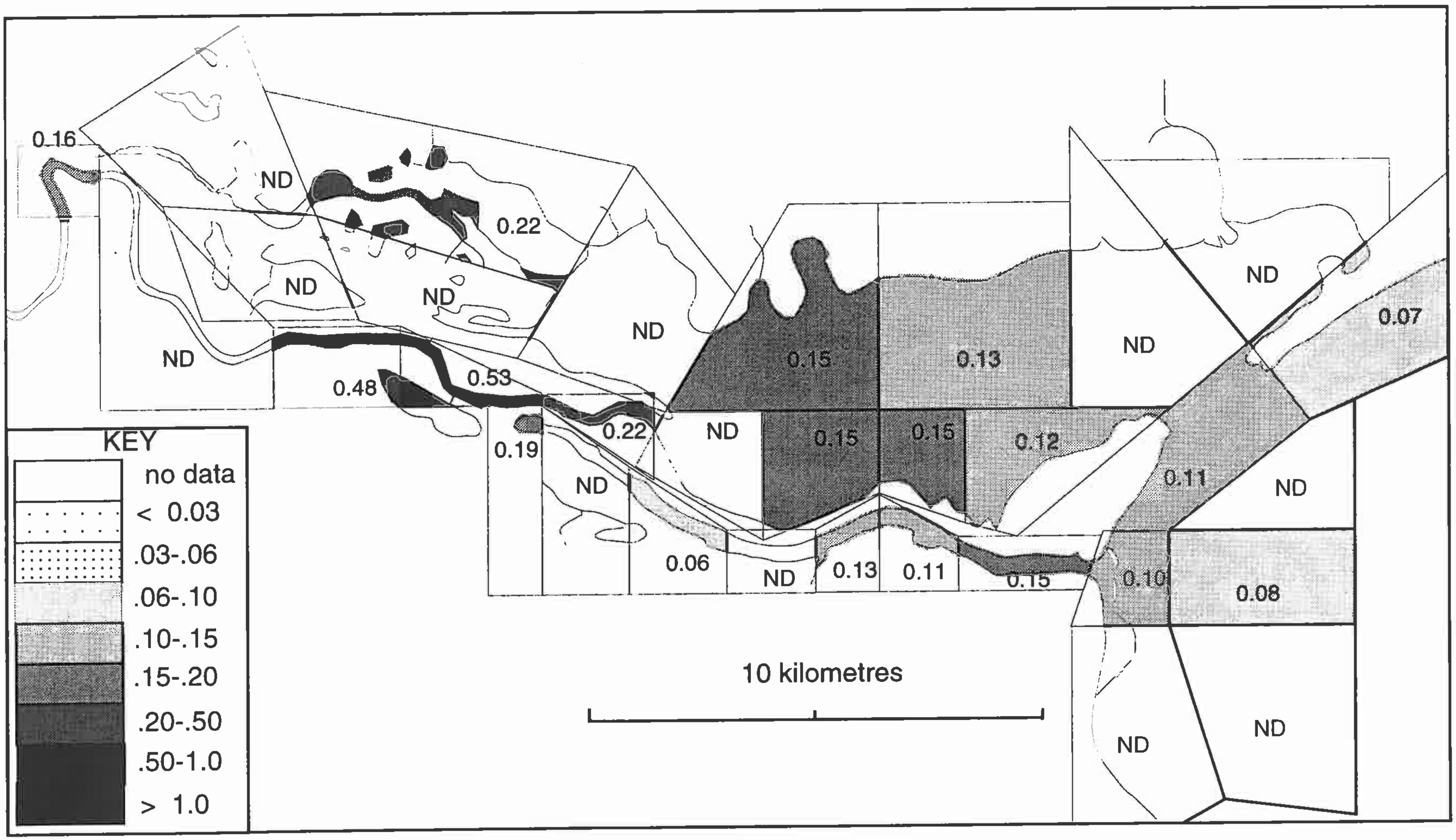

Figure 6-30. Period-of-record means of WQTOTP for Nueces Bay region, including Inner Harbor

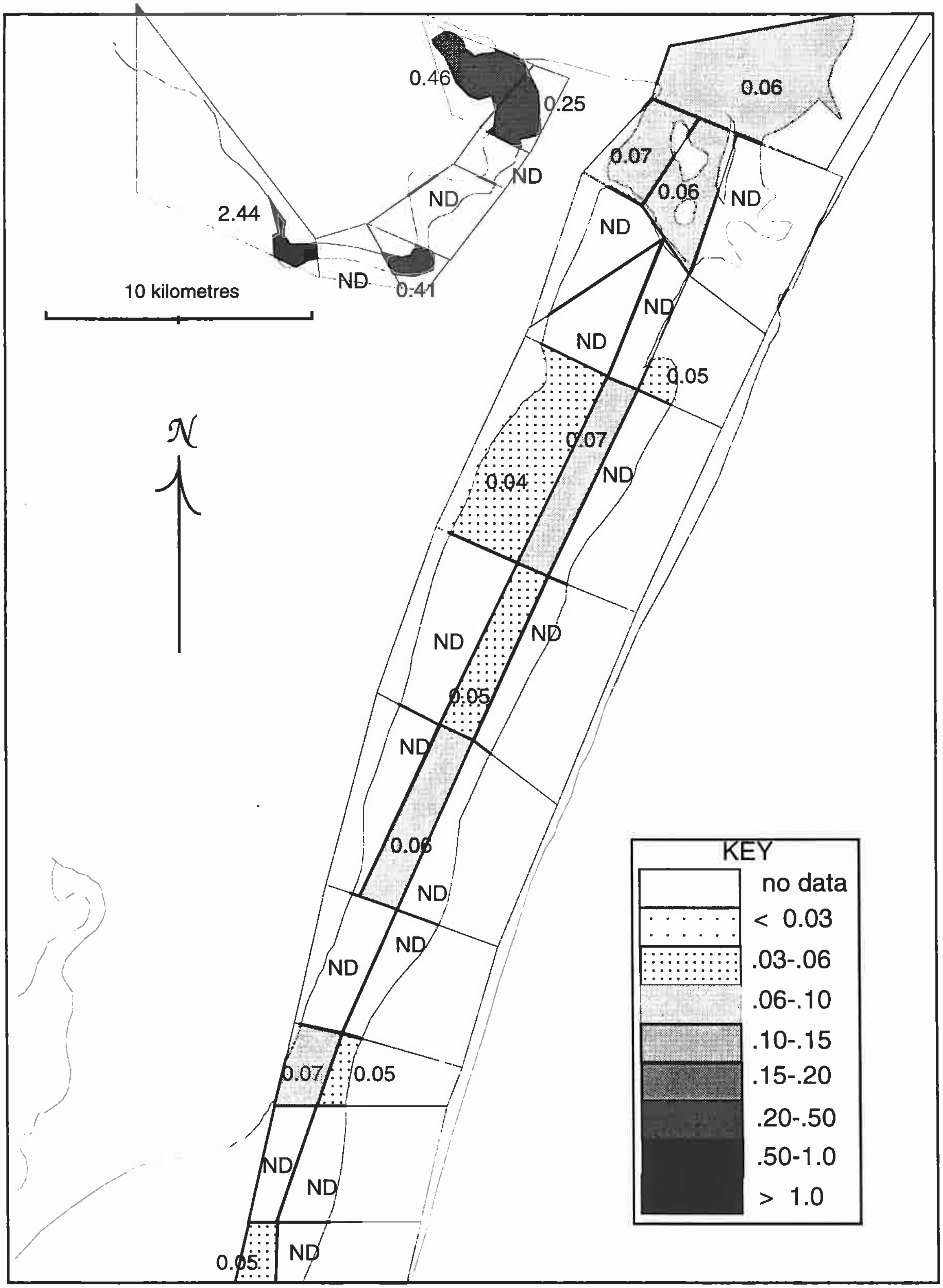

Figure 6-31. Period-of-record means of WQTOTP for Upper Laguna Madre and Oso Bay

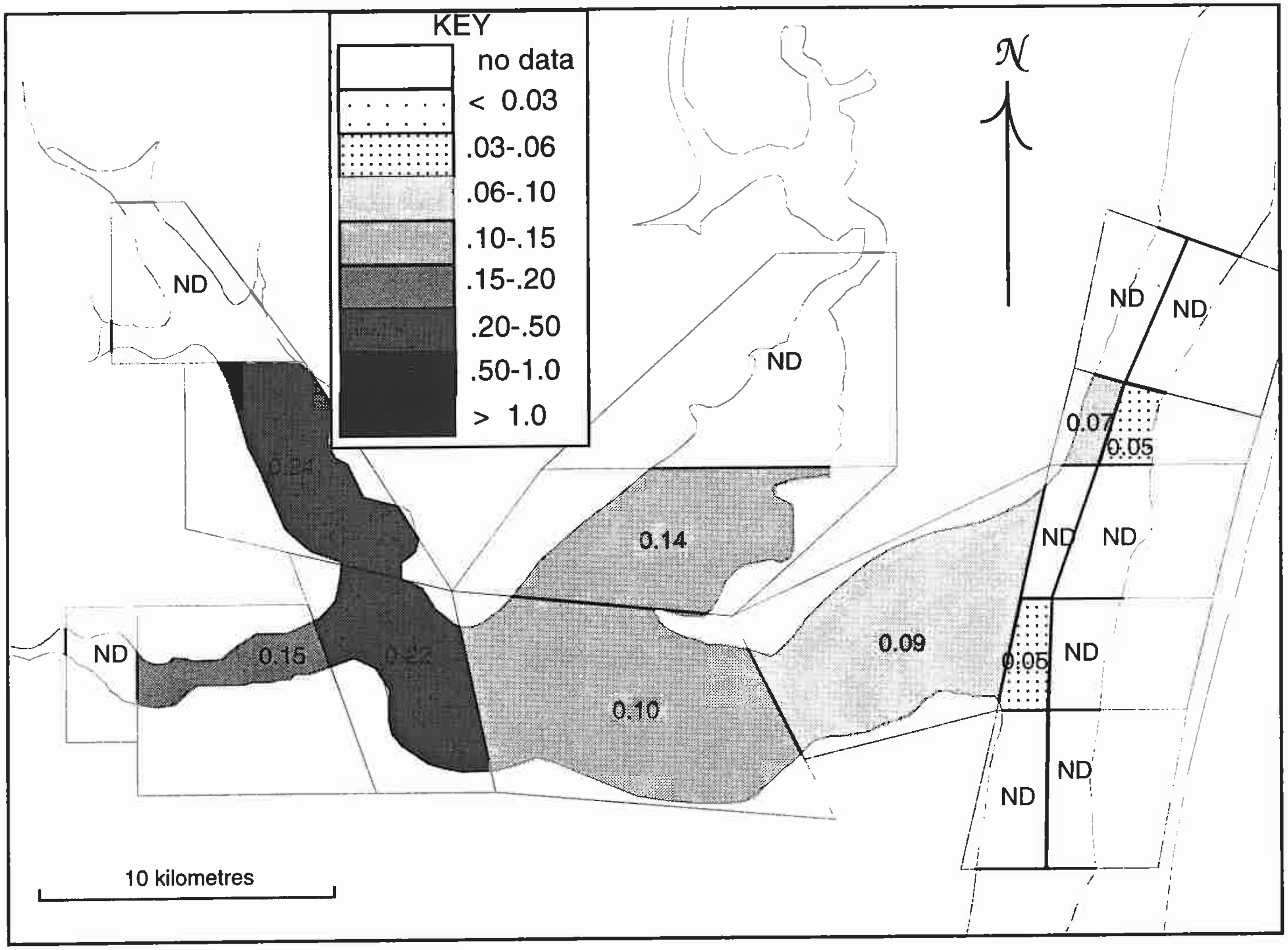

Figure 6-32. Period-of-record means of WQTOTP for Baffin Bay region

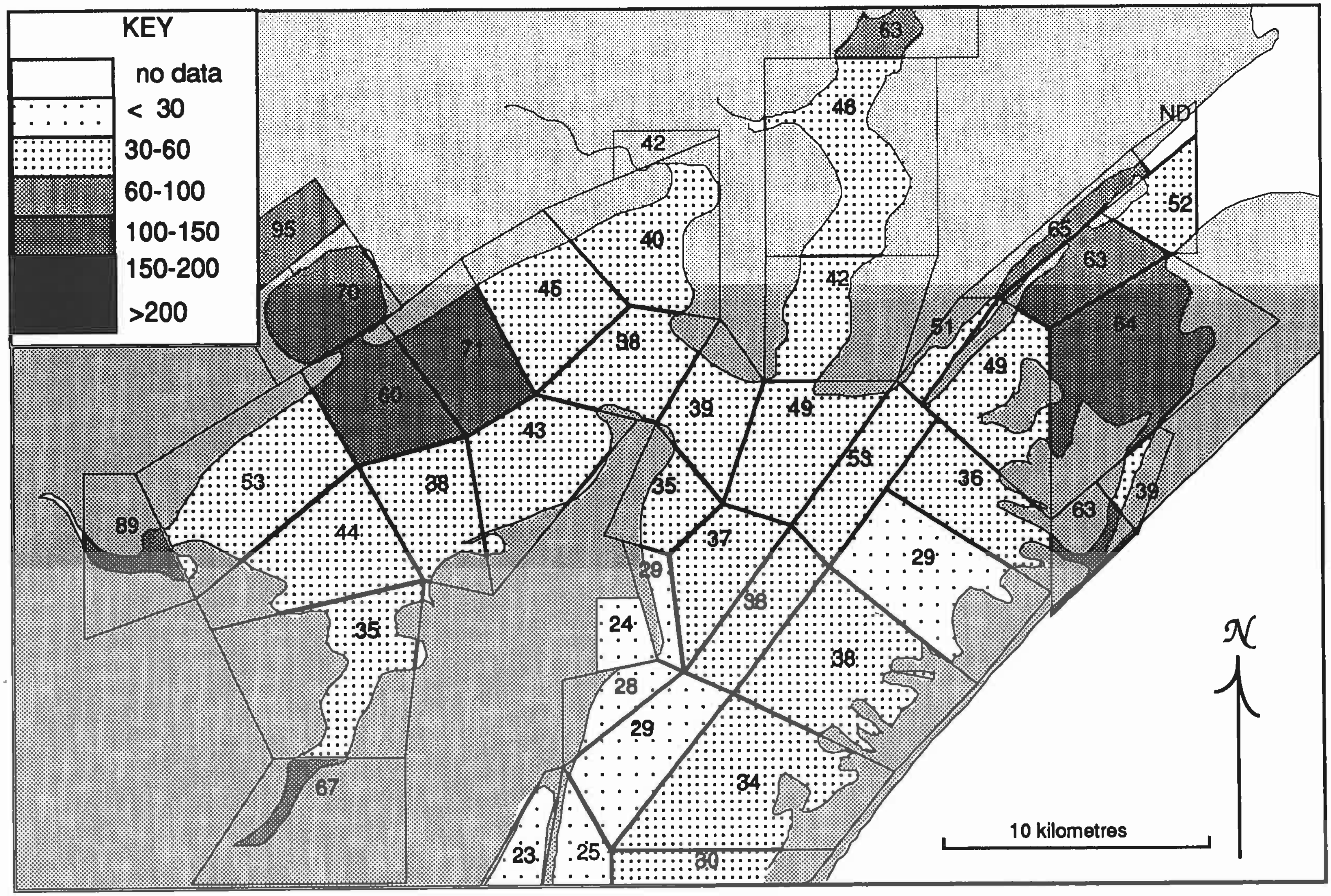

Figure 6-33. Period-of-record means of WQXTSS for Aransas-Copano system

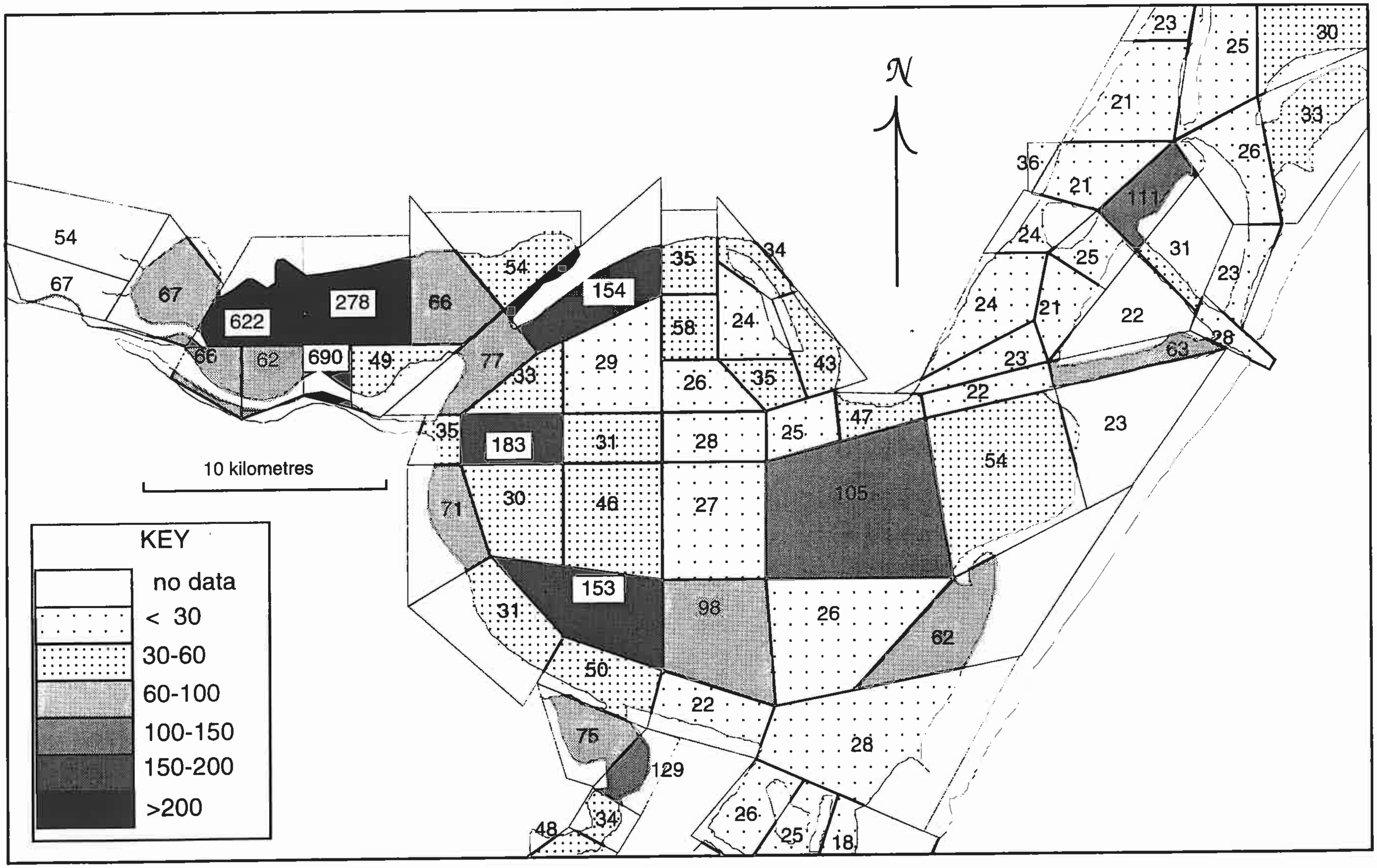

Figure 6-34. Period-of-record means of WQXTSS for Corpus Christi system

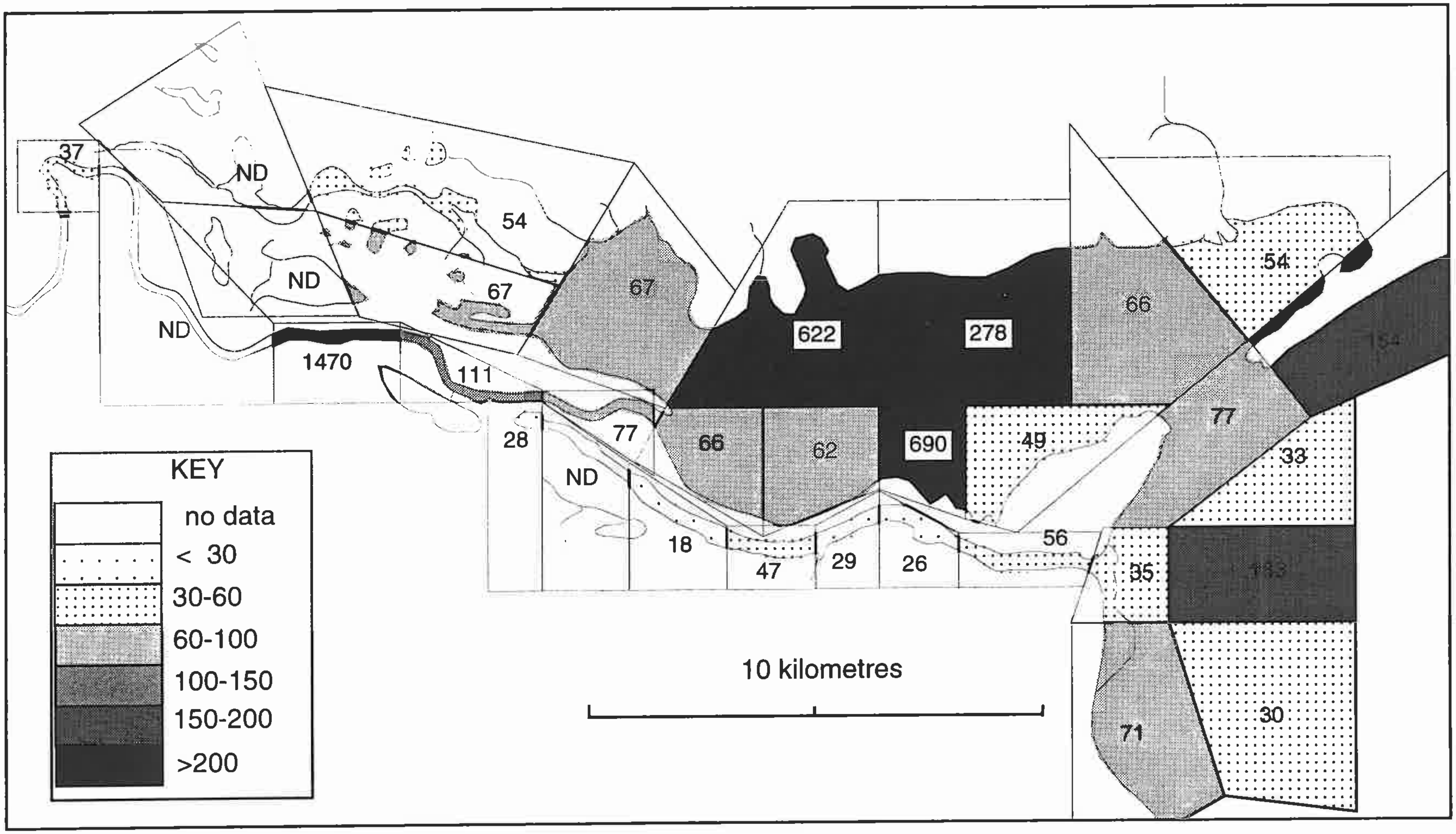

Figure 6-35. Period-of-record means of WQXTSS for Nueces Bay region, including Inner Harbor

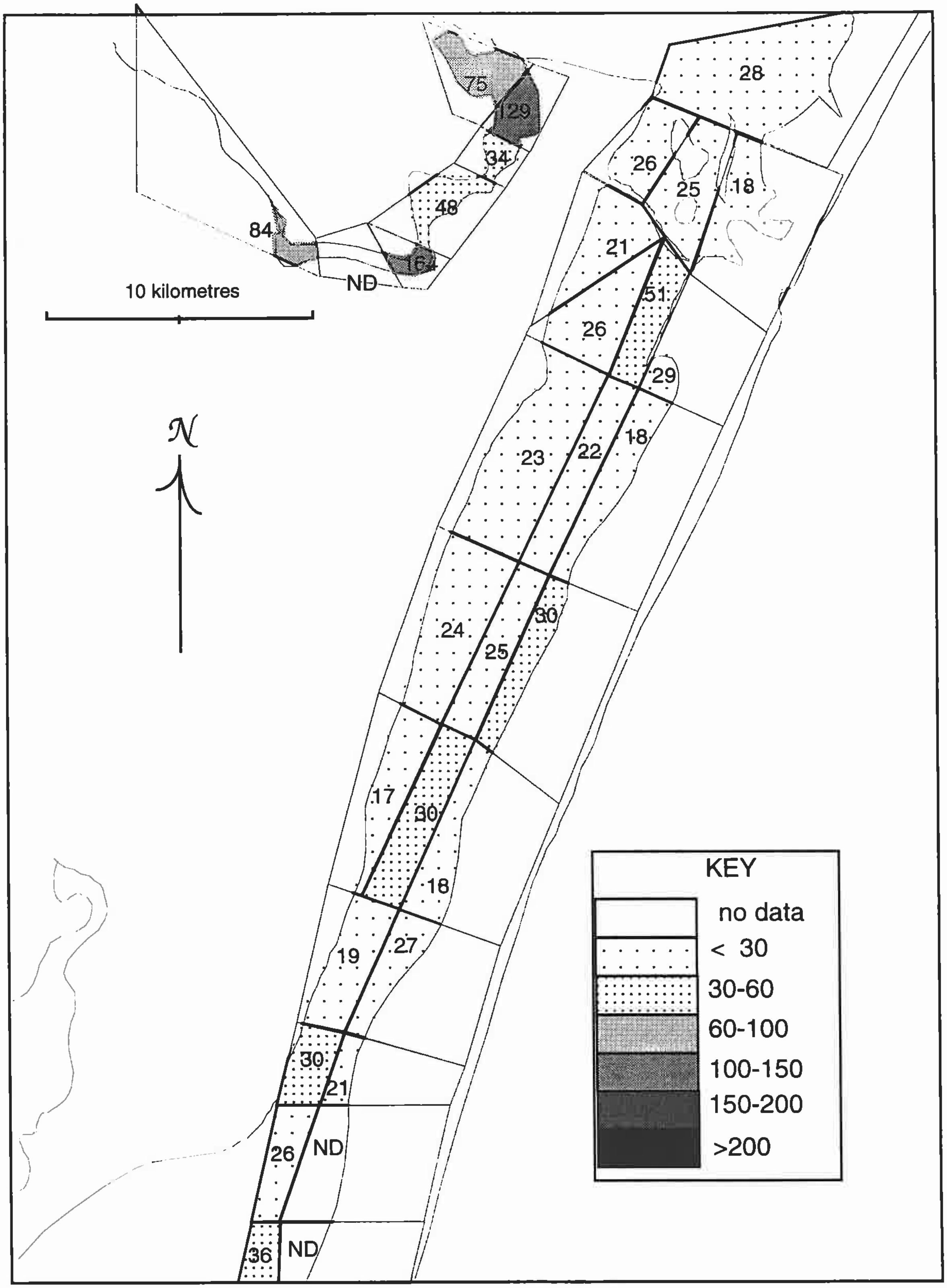

Figure 6-36. Period-of-record means of WQXTSS for Upper Laguna Madre and Oso Bay

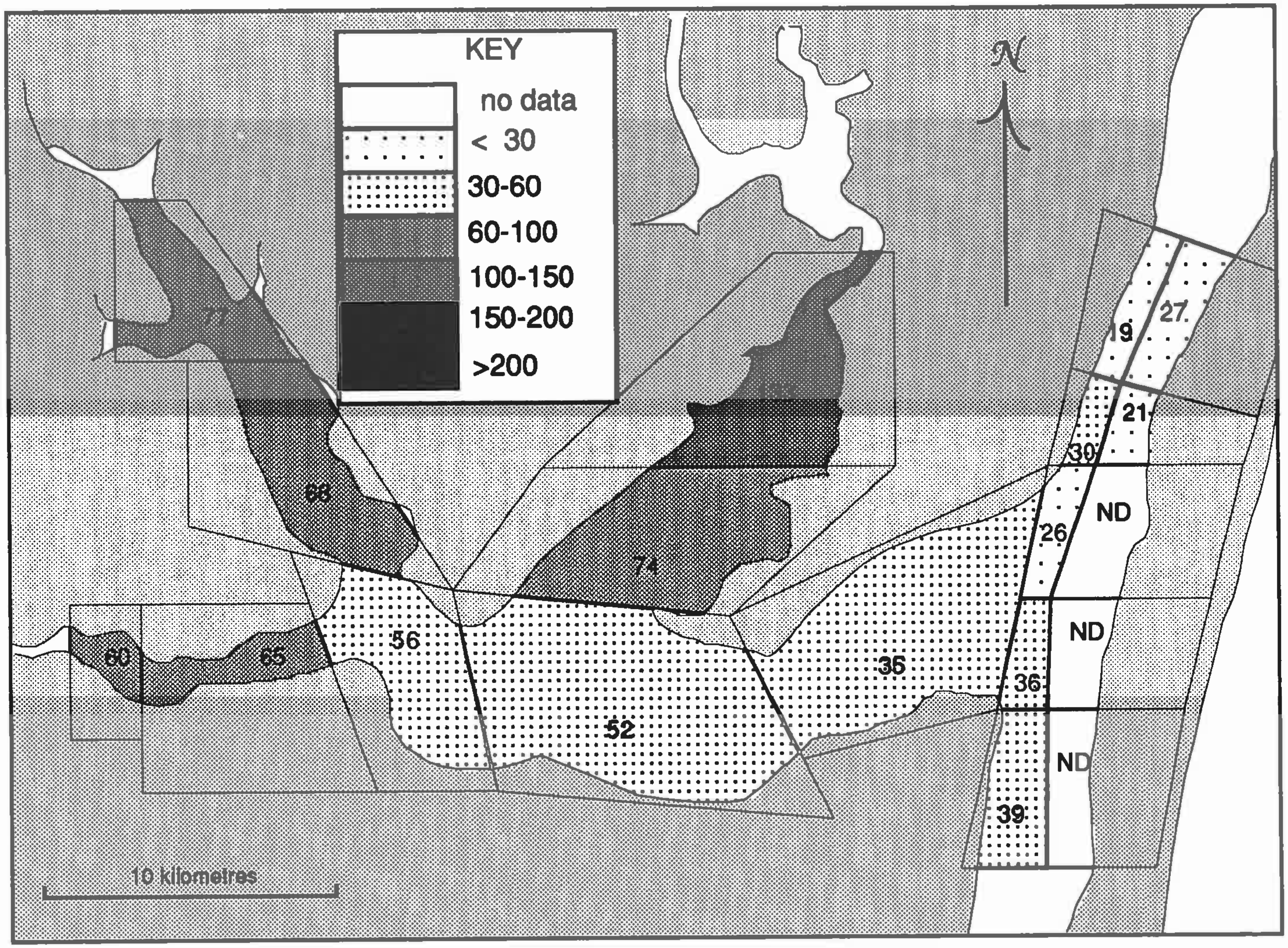

Figure 6-37. Period-of-record means of WQXTSS for Baffin Bay region

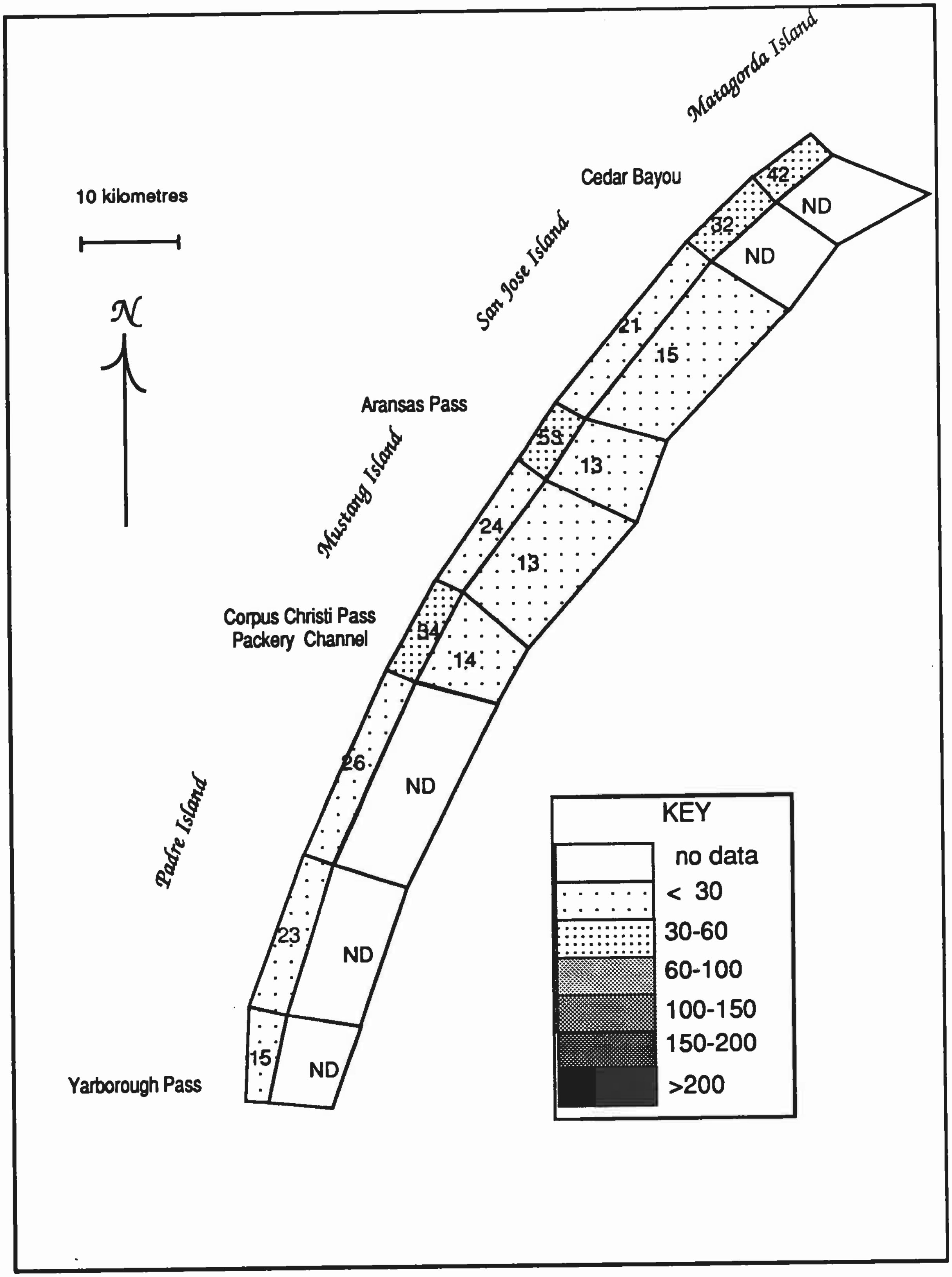

Figure 6-38. Period-of-record means of WQXTSS for Gulf of Mexico

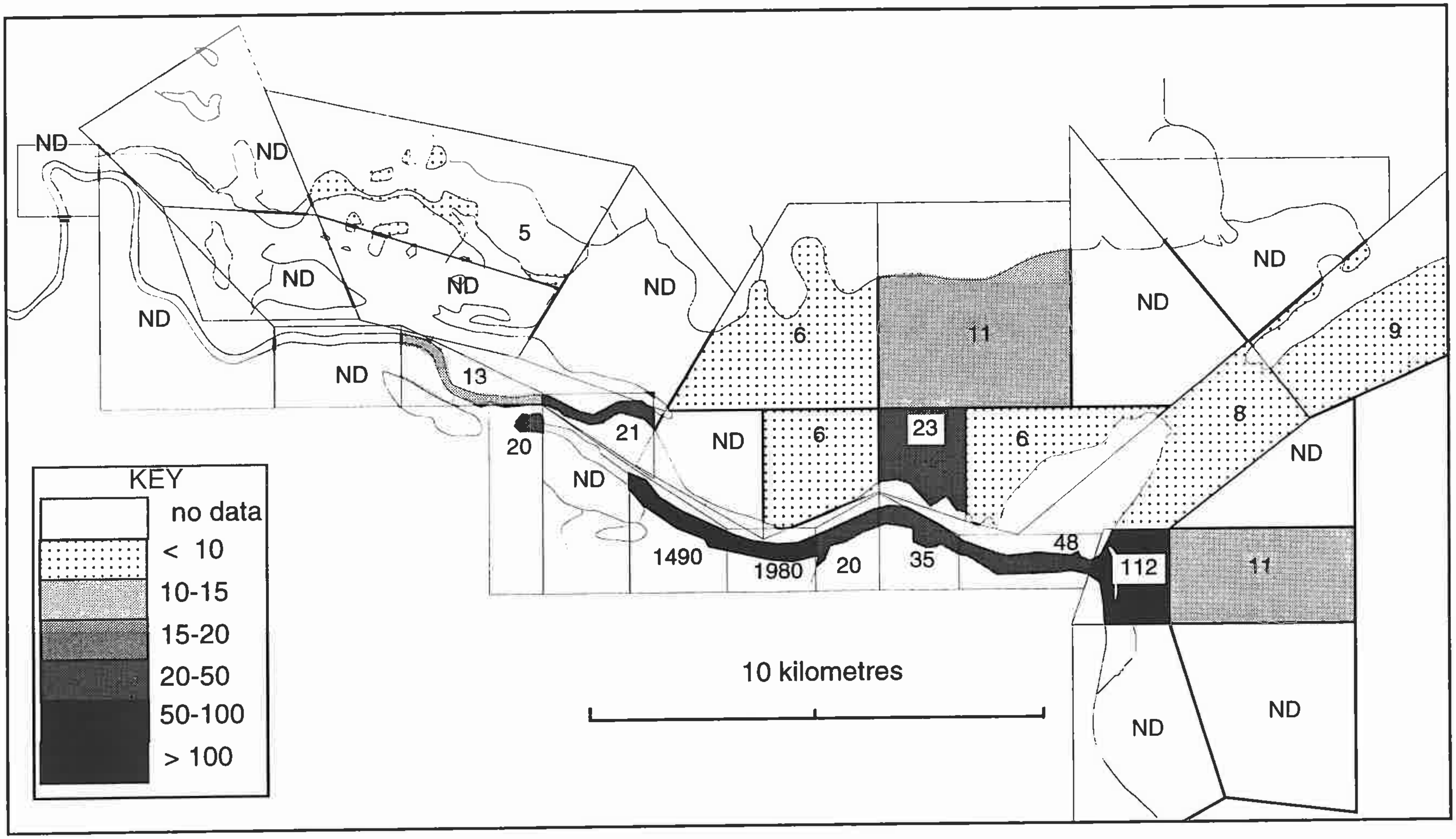

Figure 6-39. Period-of-record means of WQTOC for Nueces Bay region, including Inner Harbor

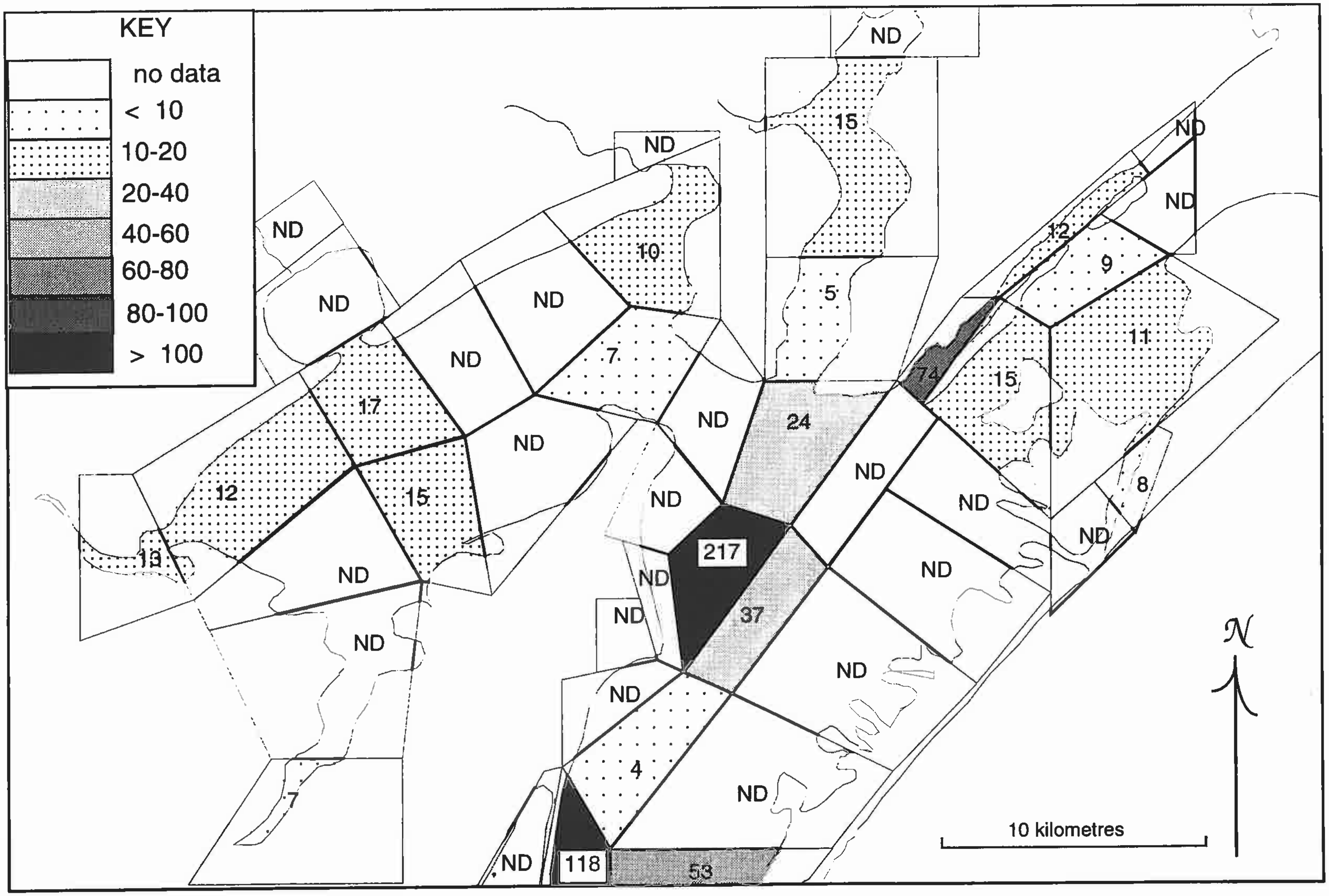

Figure 6-40. Period-of-record means of WQCHLA for Aransas-Copano system

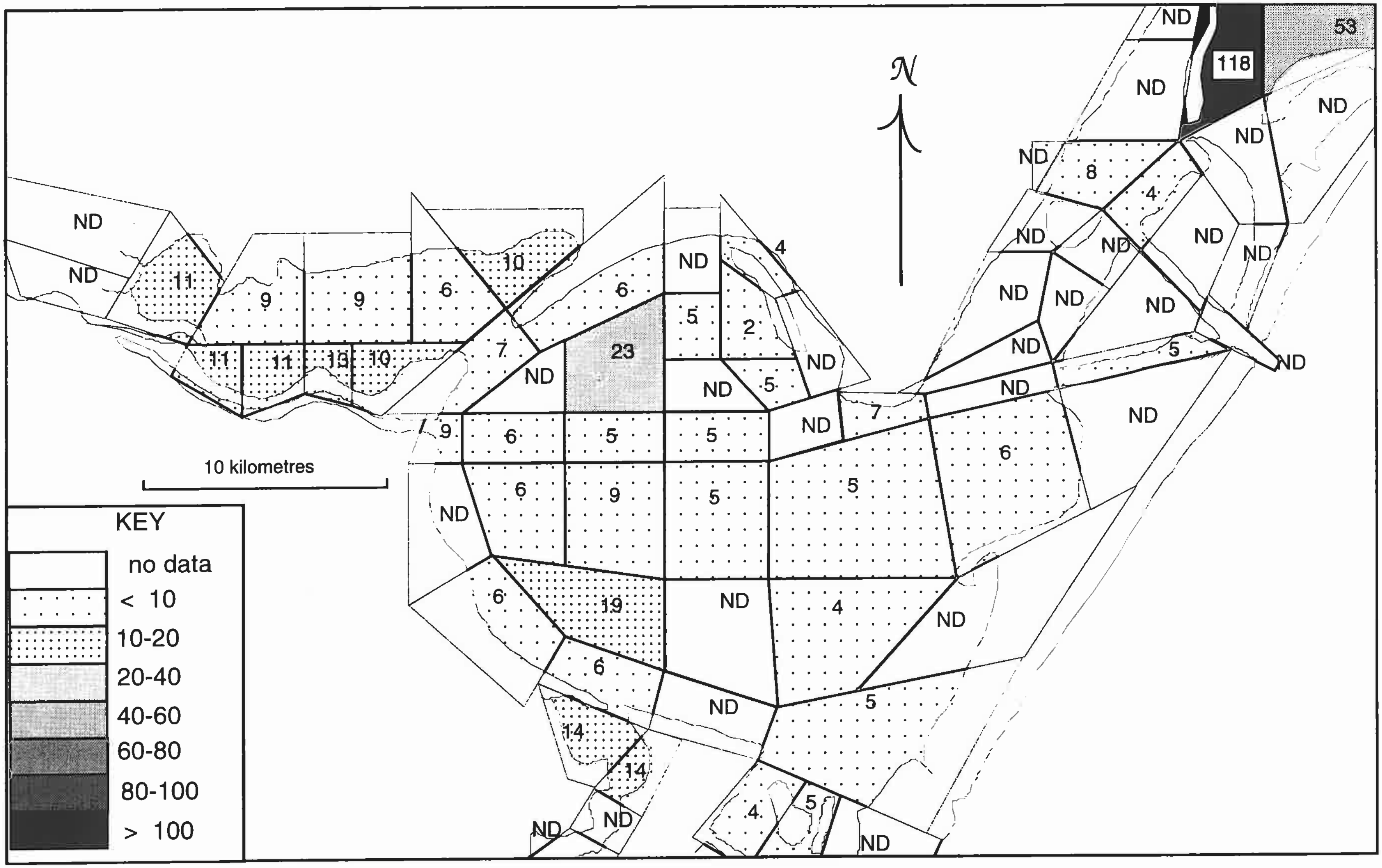

Figure 6-41. Period-of-record means of WQCHLA for Corpus Christi system

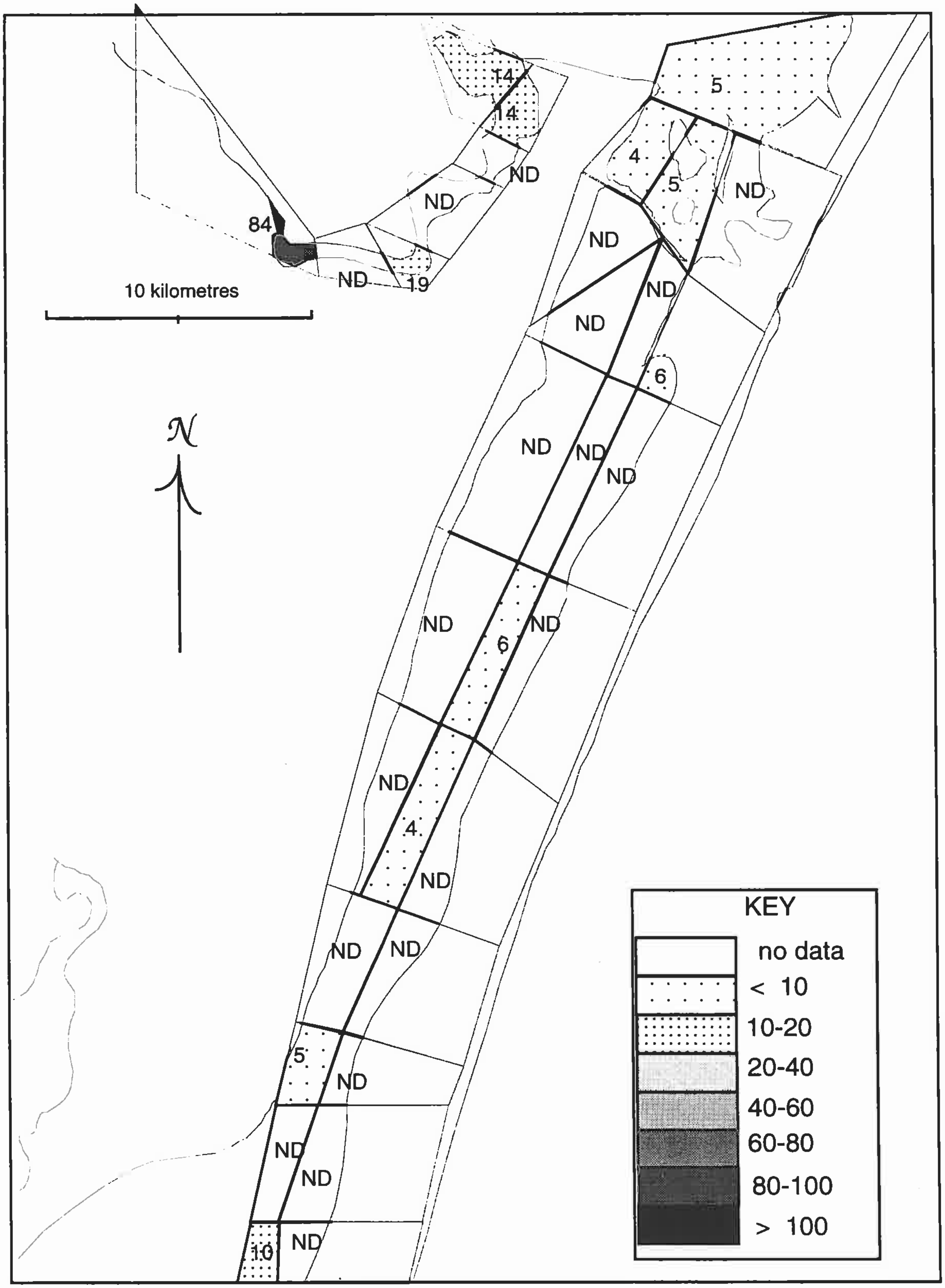

Figure 6-42. Period-of-record means of WQCHLA for Upper Laguna Madre and Oso Bay

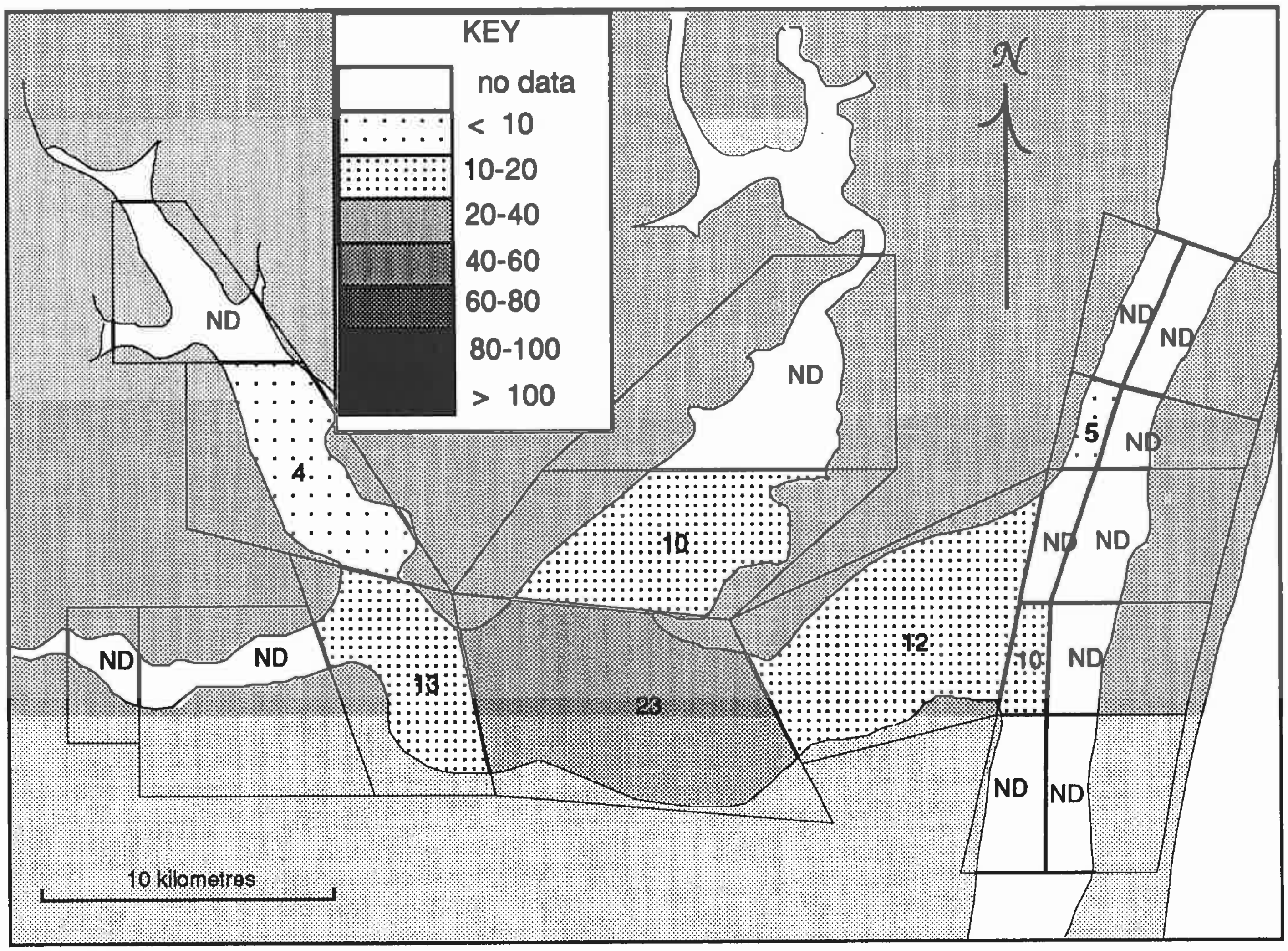

Figure 6-43. Period-of-record means of WQCHLA for Baffin Bay region

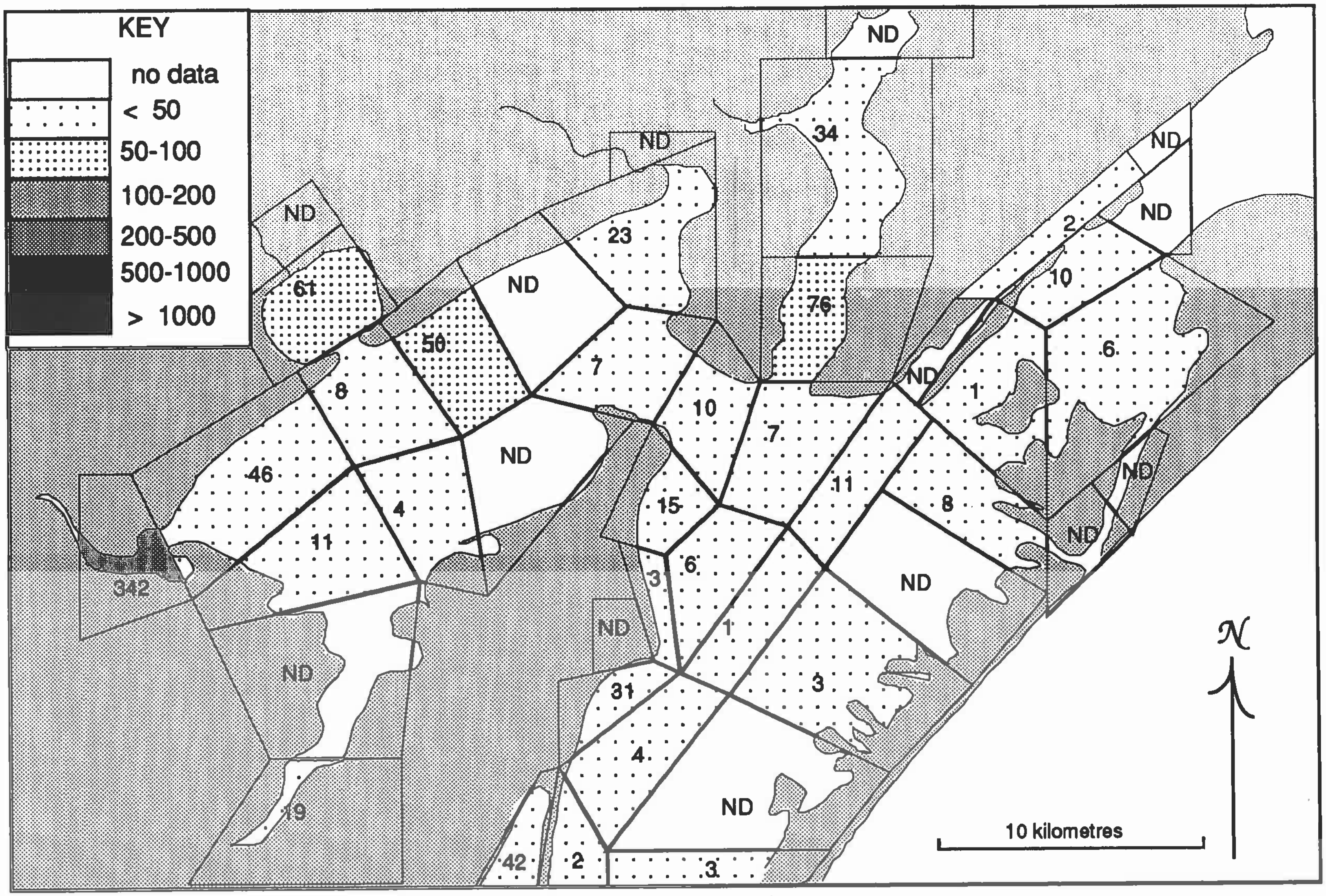

Figure 6-44. Period-of-record means of WQFCOLI for Aransas-Copano system

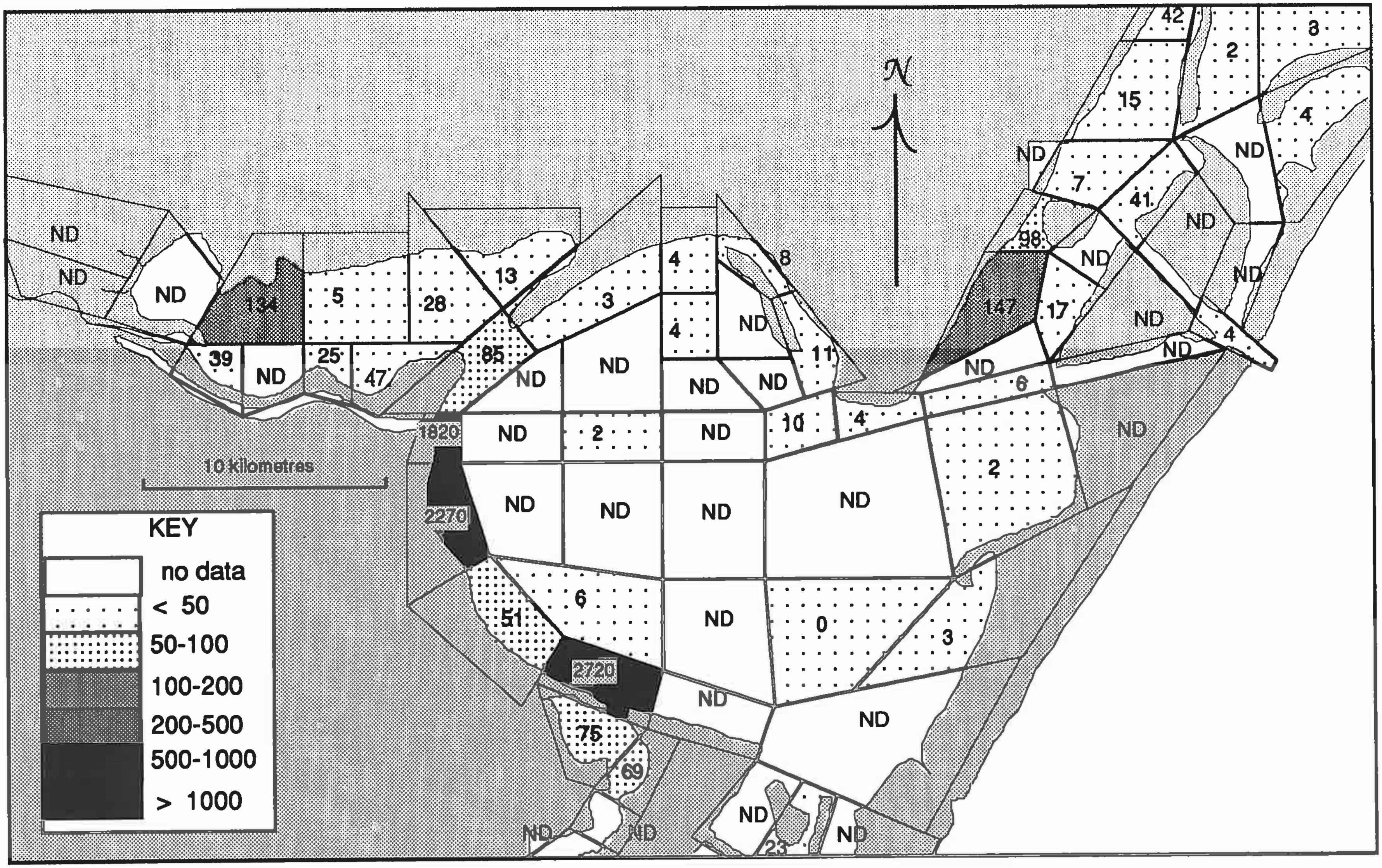

Figure 6-45. Period-of-record means of WQFCOLI for Corpus Christi system

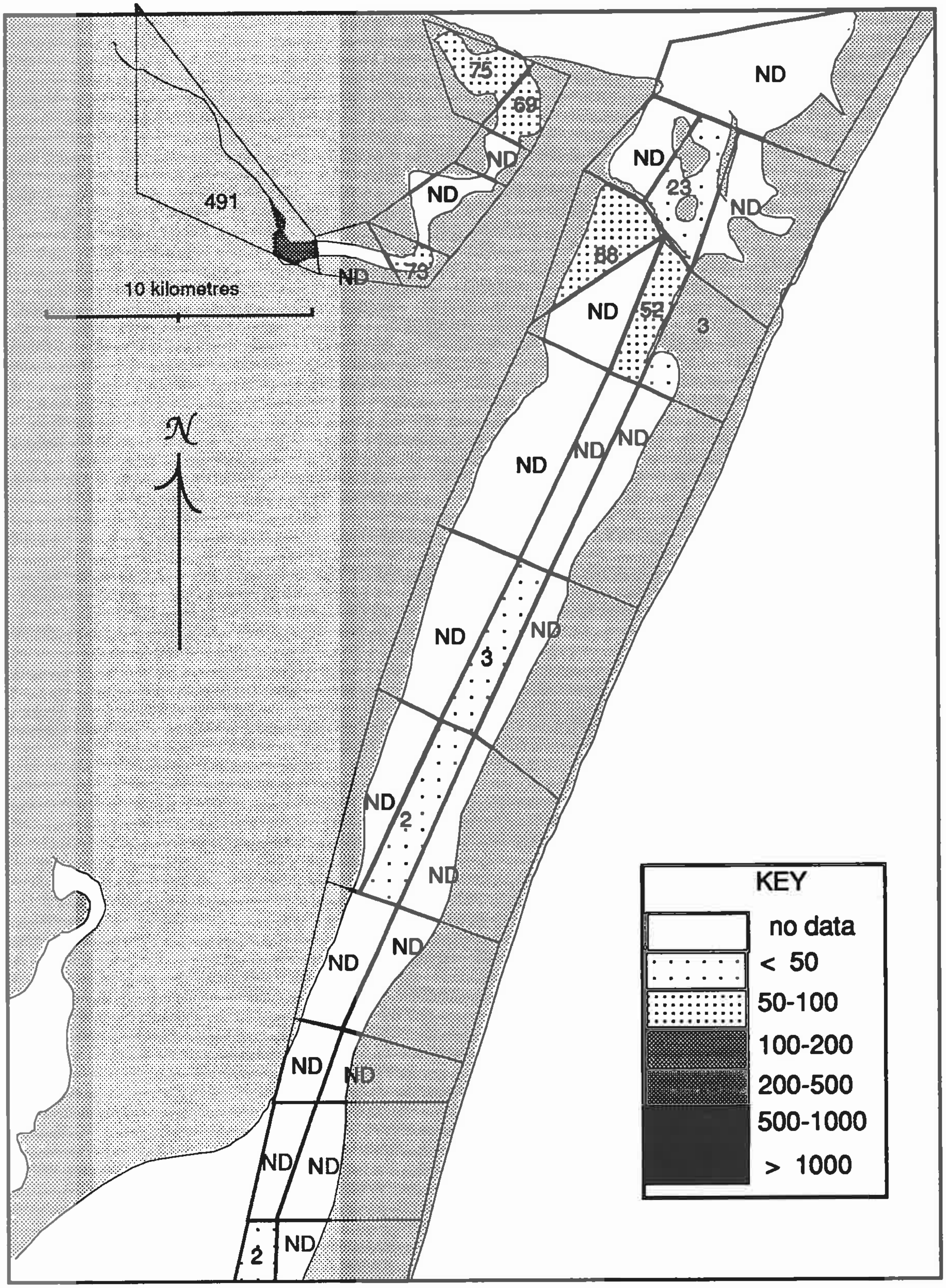

Figure 6-46. Period-of-record means of WQFCOLI for Upper Laguna Madre and Oso Bay

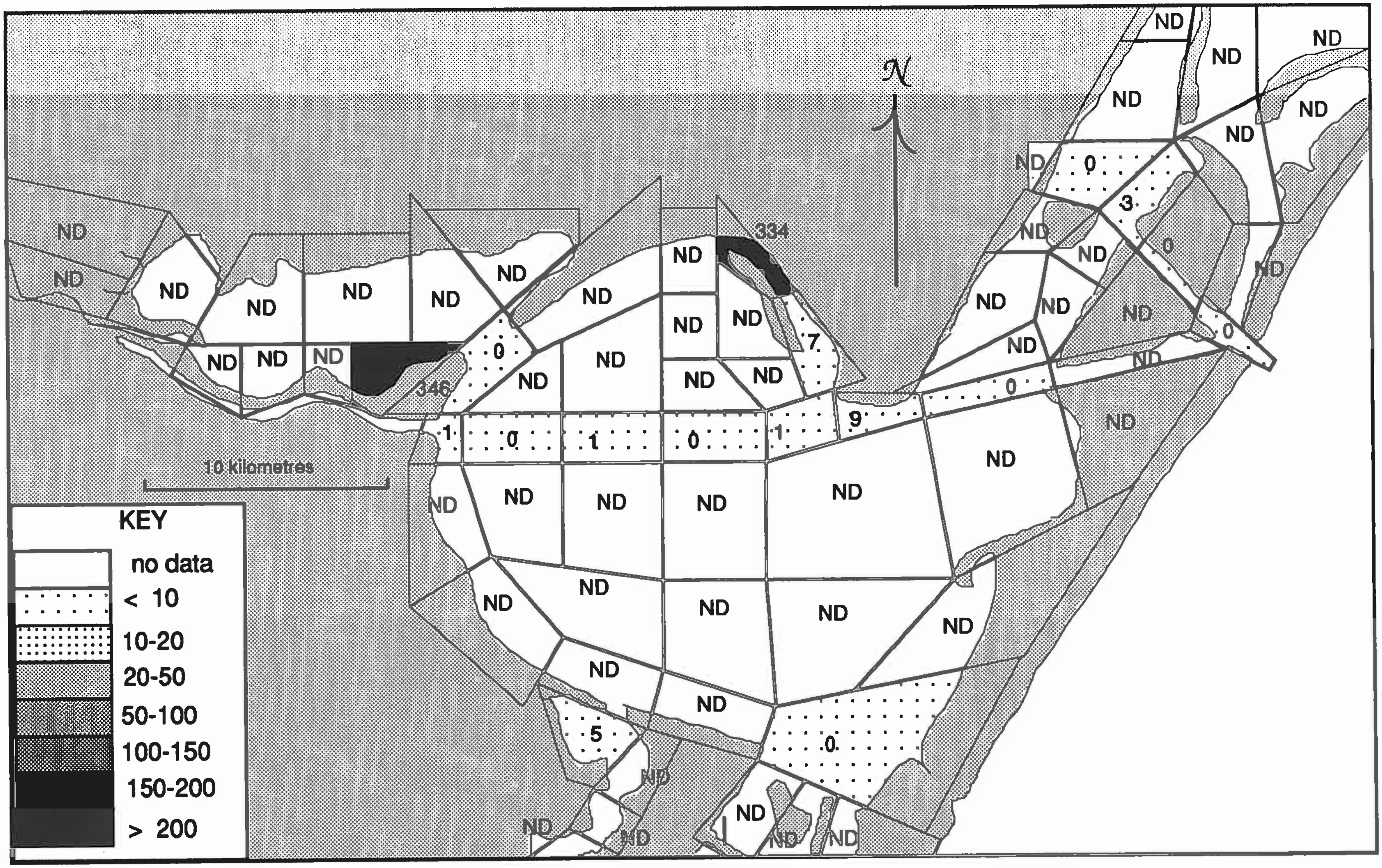

Figure 6-47. Period-of-record means of WQMETCDT for Corpus Christi system

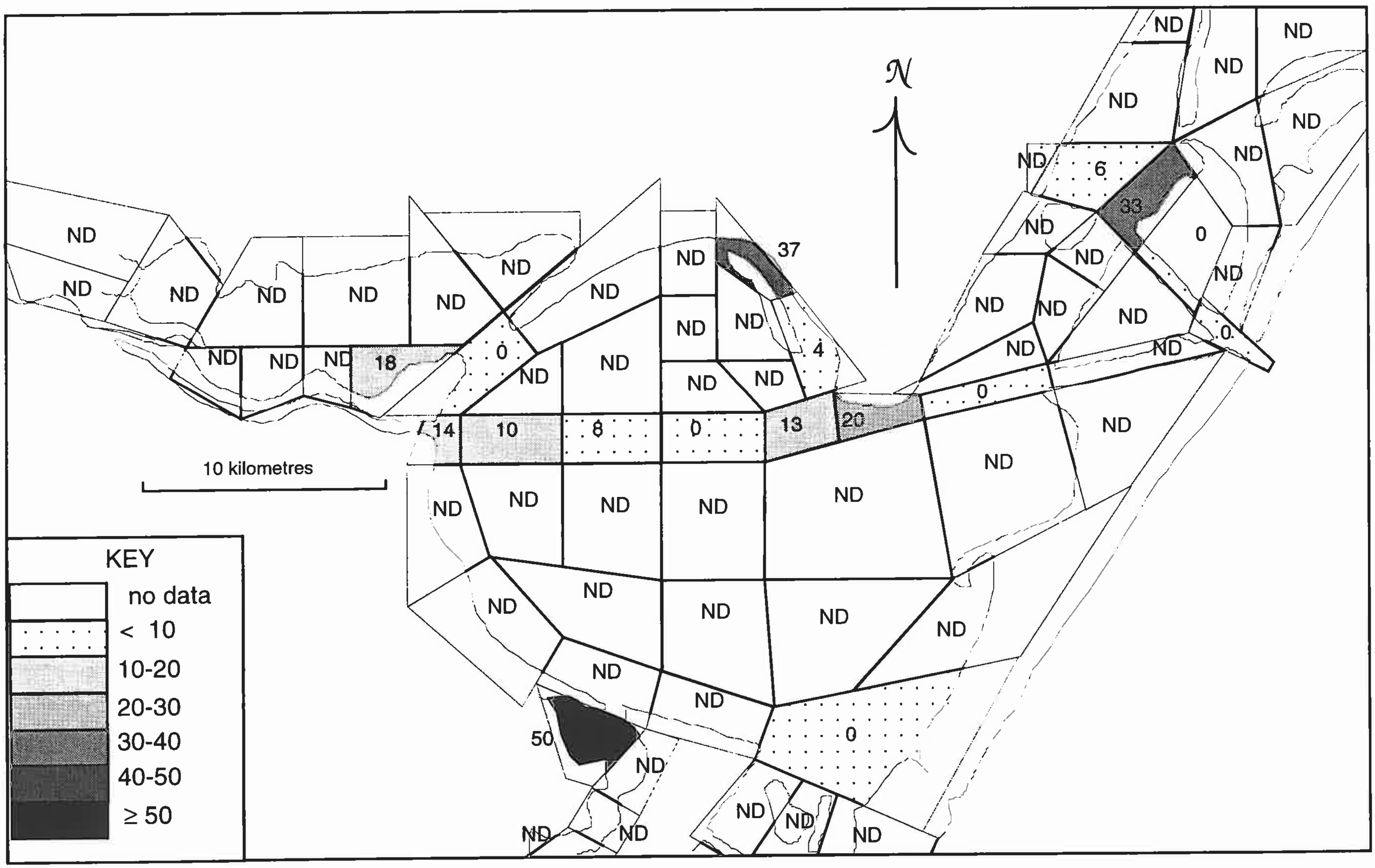

Figure 6-48. Period-of-record means of WQMETCUT for Corpus Christi system

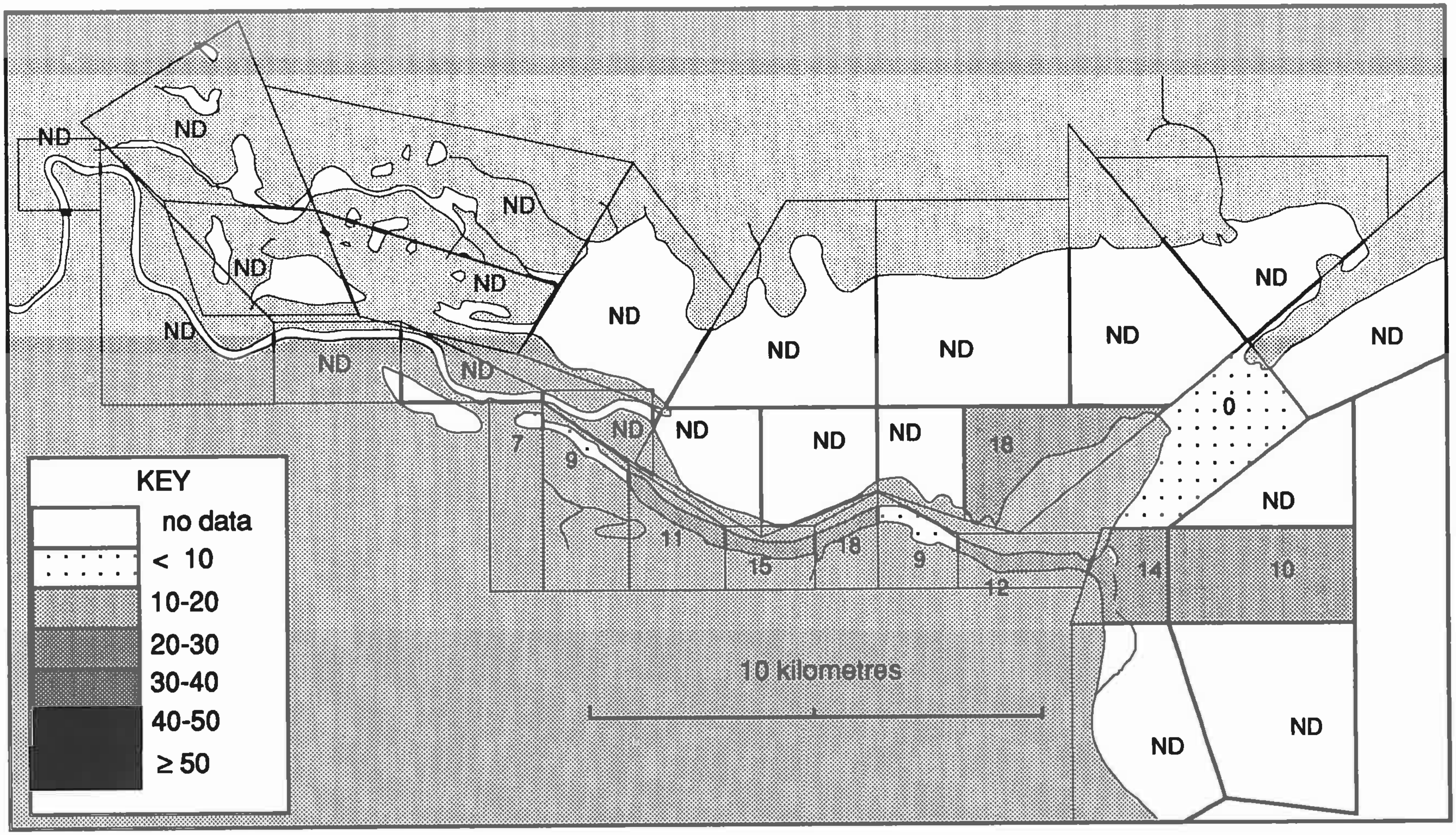

Figure 6-49. Period-of-record means of WQMETCUT for Nueces Bay region, including Inner Harbor

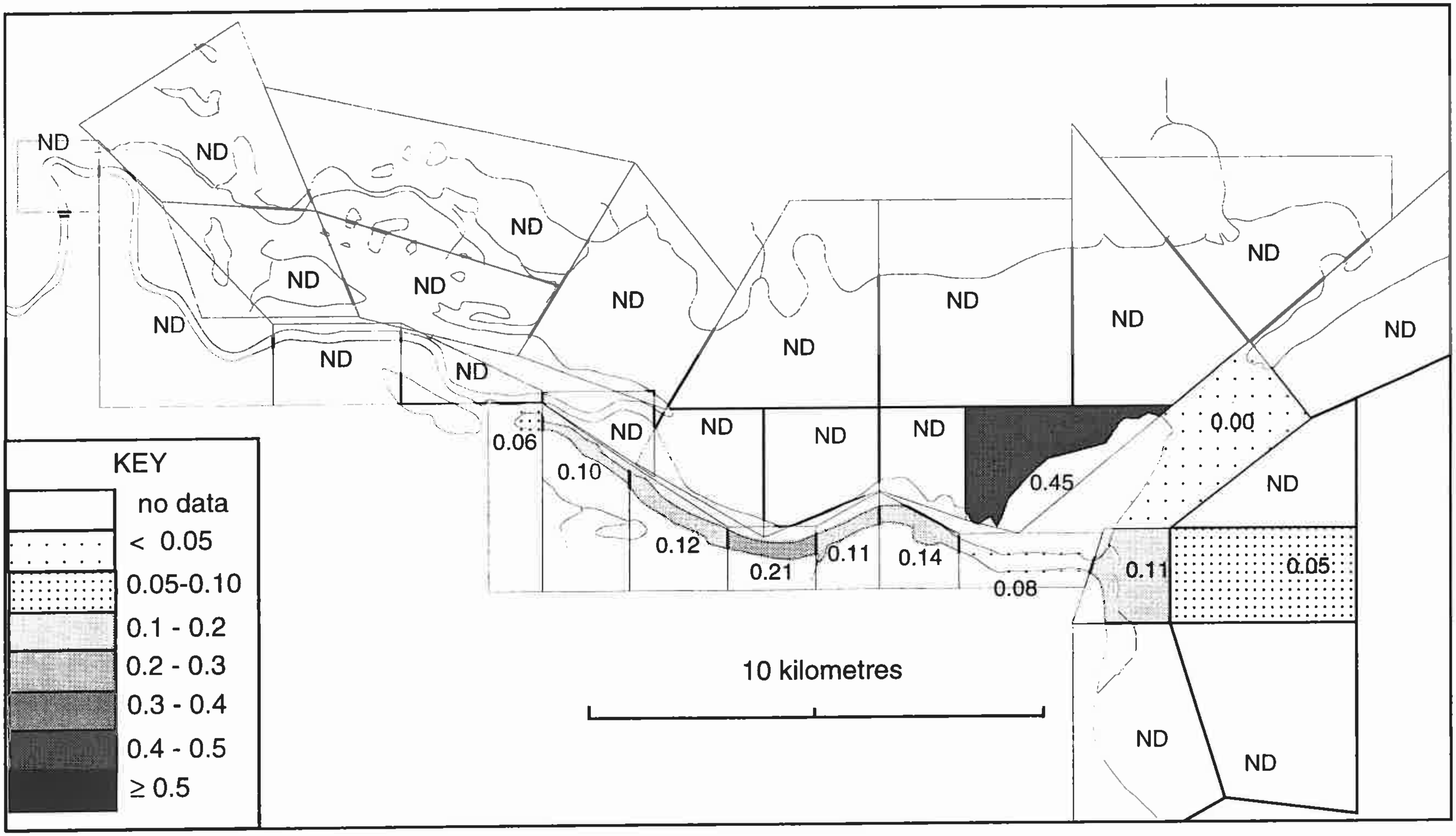

Figure 6-50. Period-of-record means of WQMETHGT for Nueces Bay region, including Inner Harbor

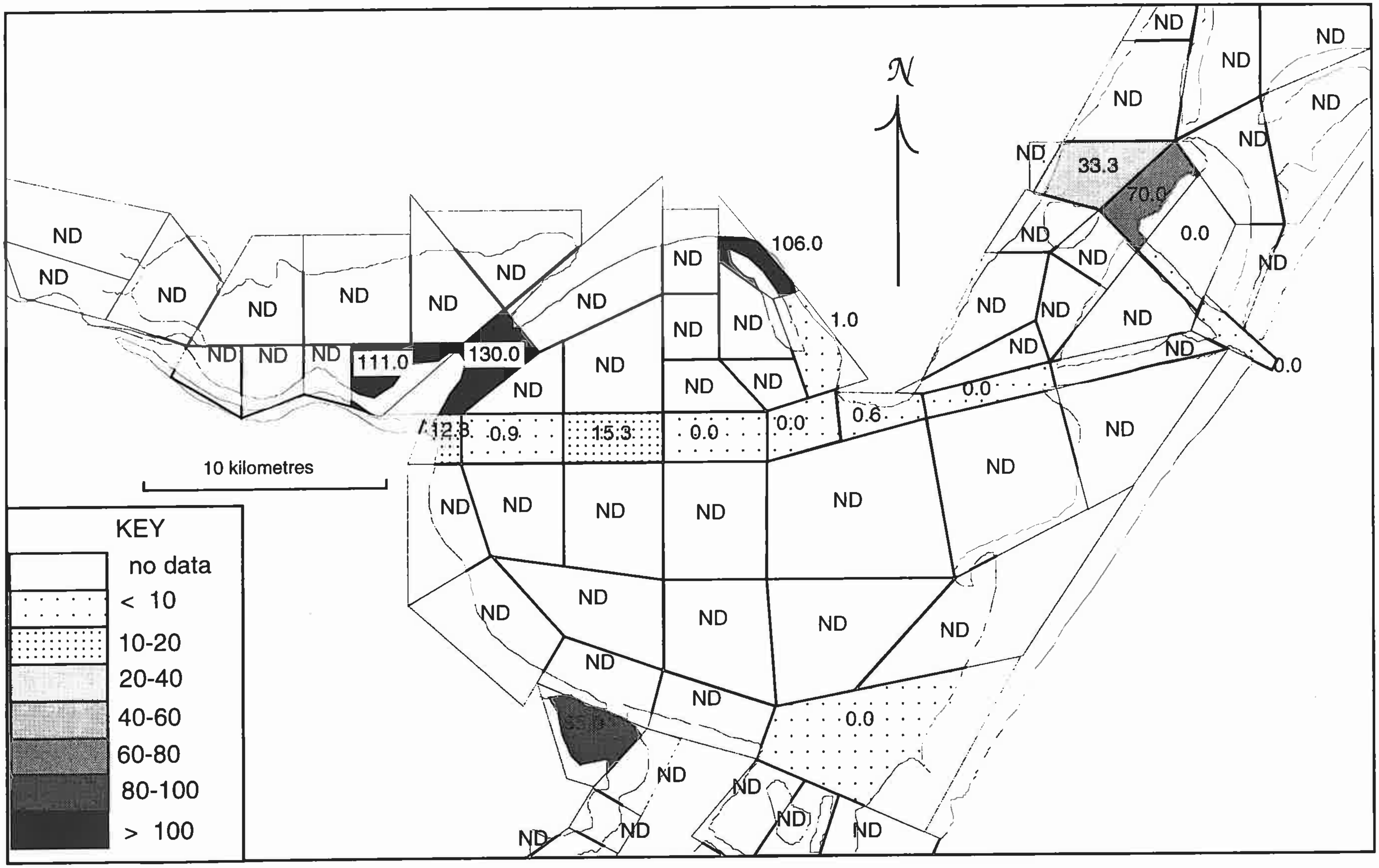

Figure 6-51. Period-of-record means of WQMETPBT for Corpus Christi system

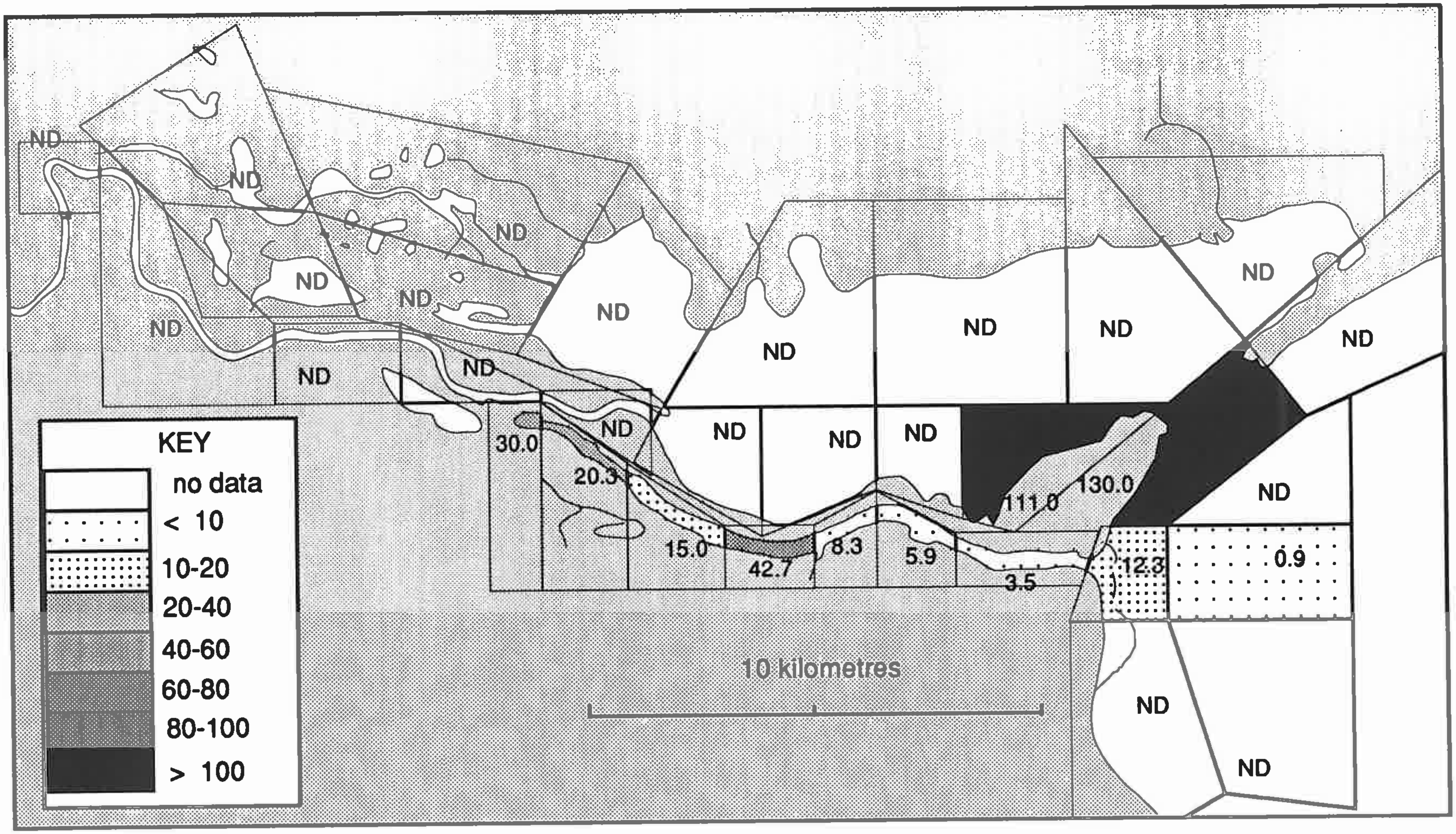

Figure 6-52. Period-of-record means of WQMETPBT for Nueces Bay region, including Inner Harbor

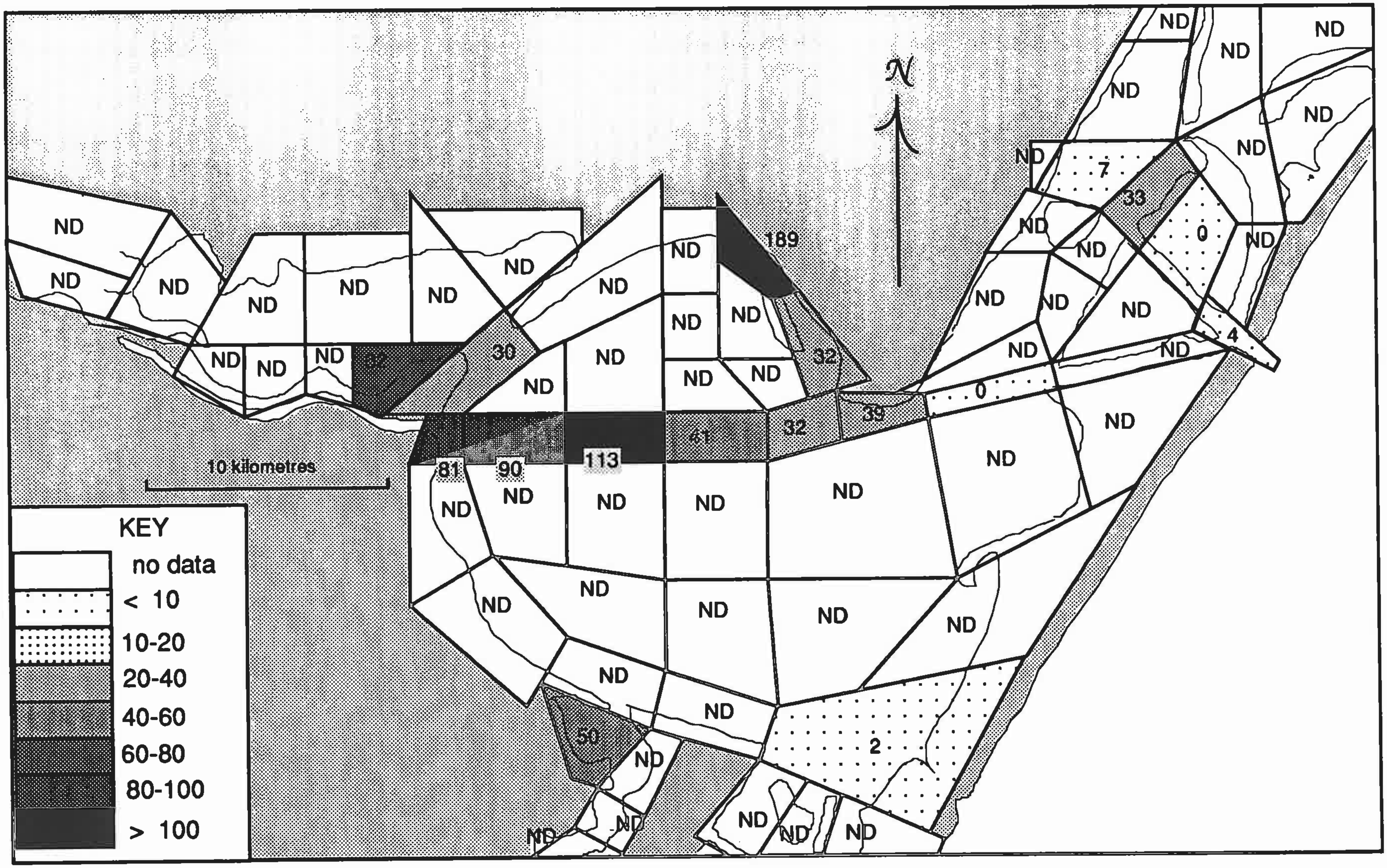

Figure 6-53. Period-of-record means of WQMETZNT for Corpus Christi system

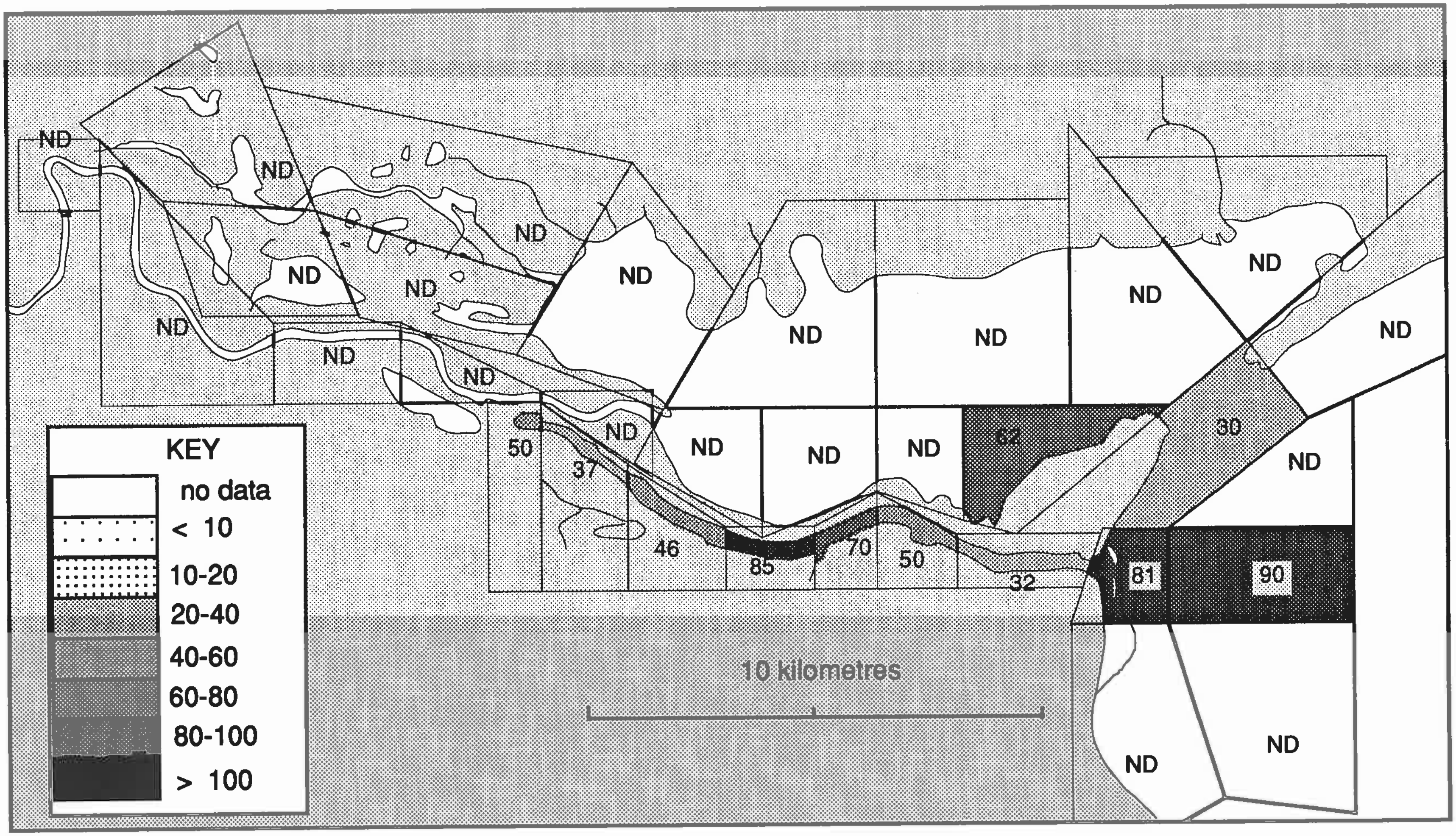

Figure 6-54. Period-of-record means of WQMETZNT for Nueces Bay region, including Inner Harbor

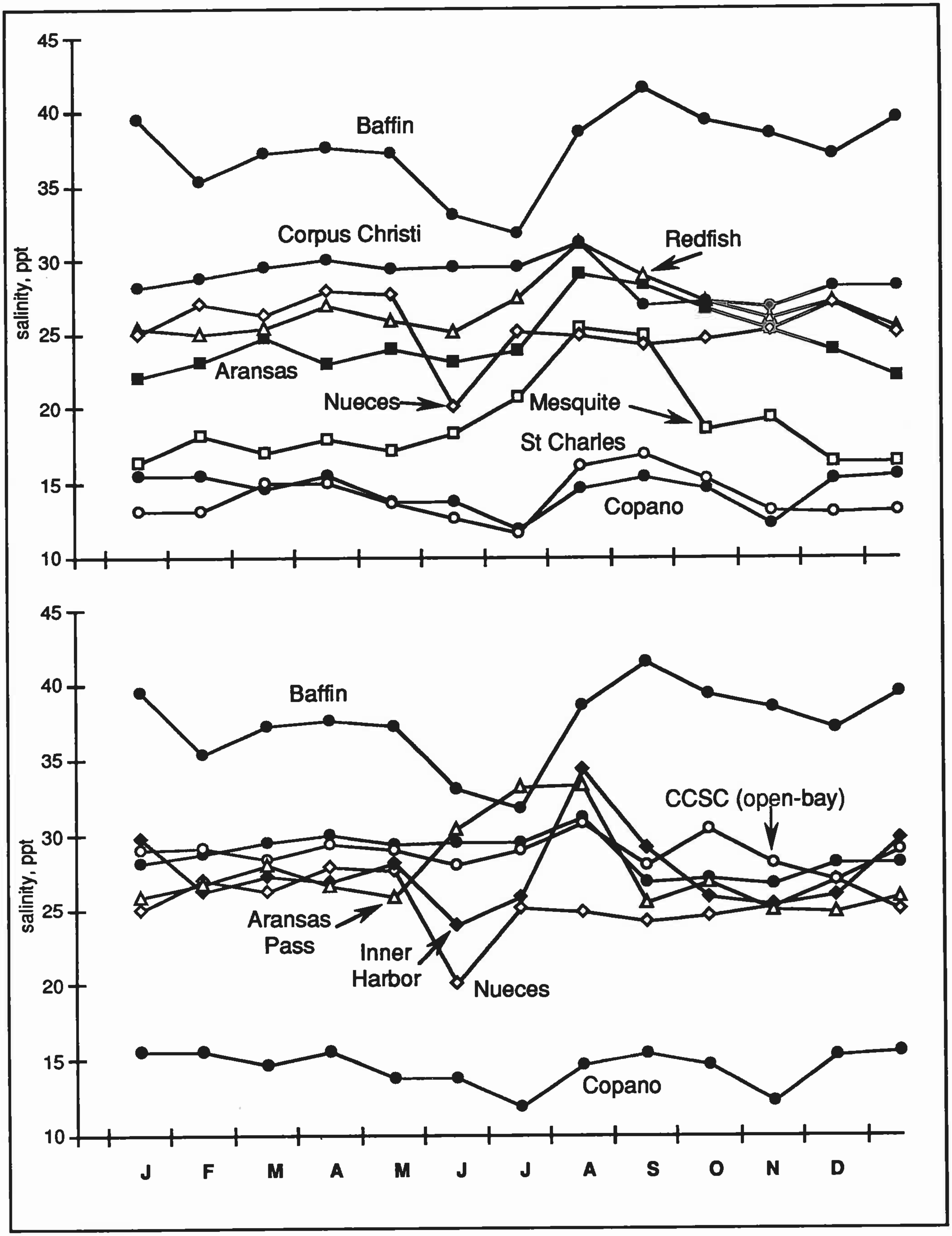

Figure 6-55. Period-of-record monthly-mean salinity (WQSAL), upper 1 m, principal bays (above) and Corpus Christi Bay region (below)

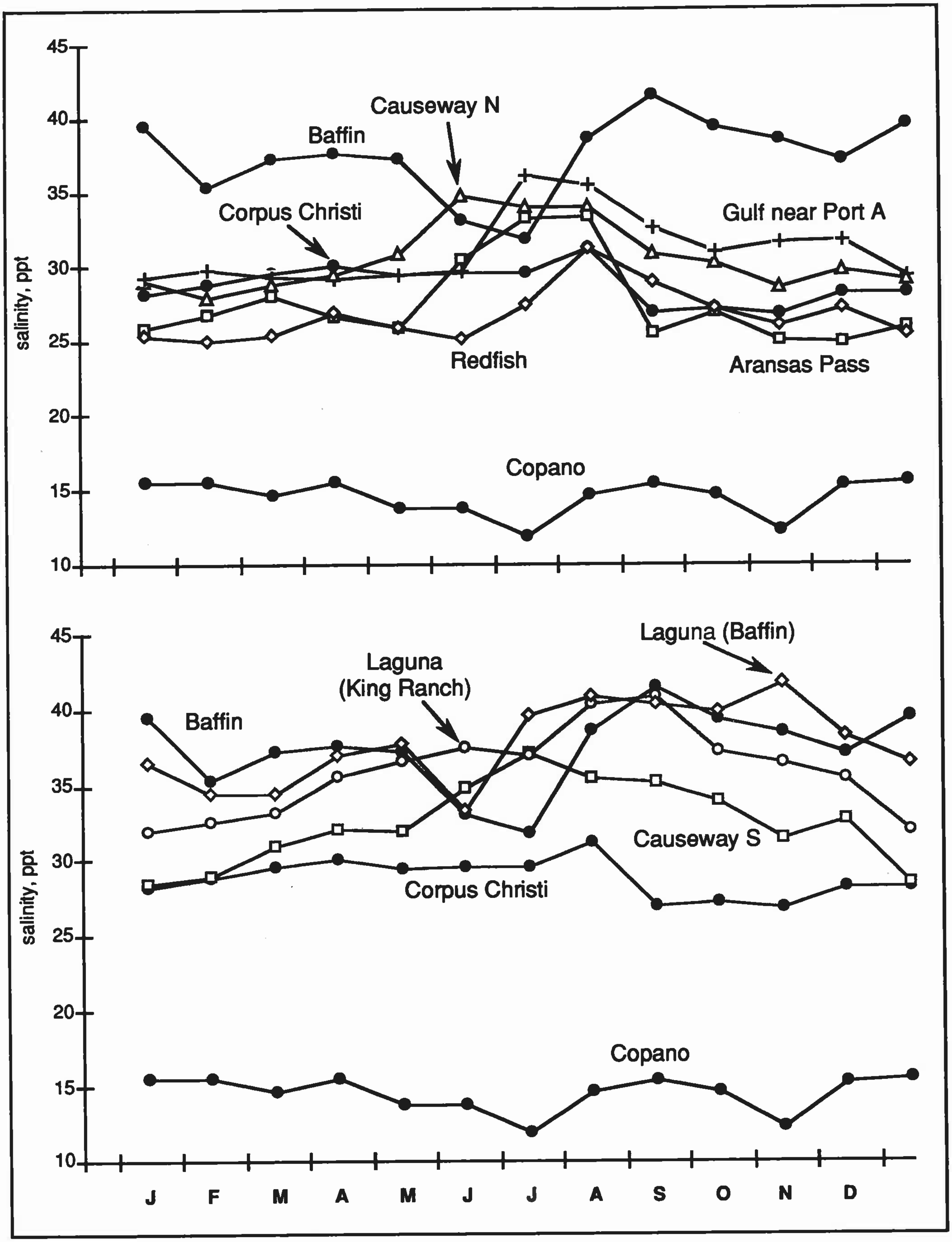

Figure 6-56. Period-of-record monthly-mean salinity (WQSAL), upper 1 m, barrier island region (above) and Upper Laguna region (below)

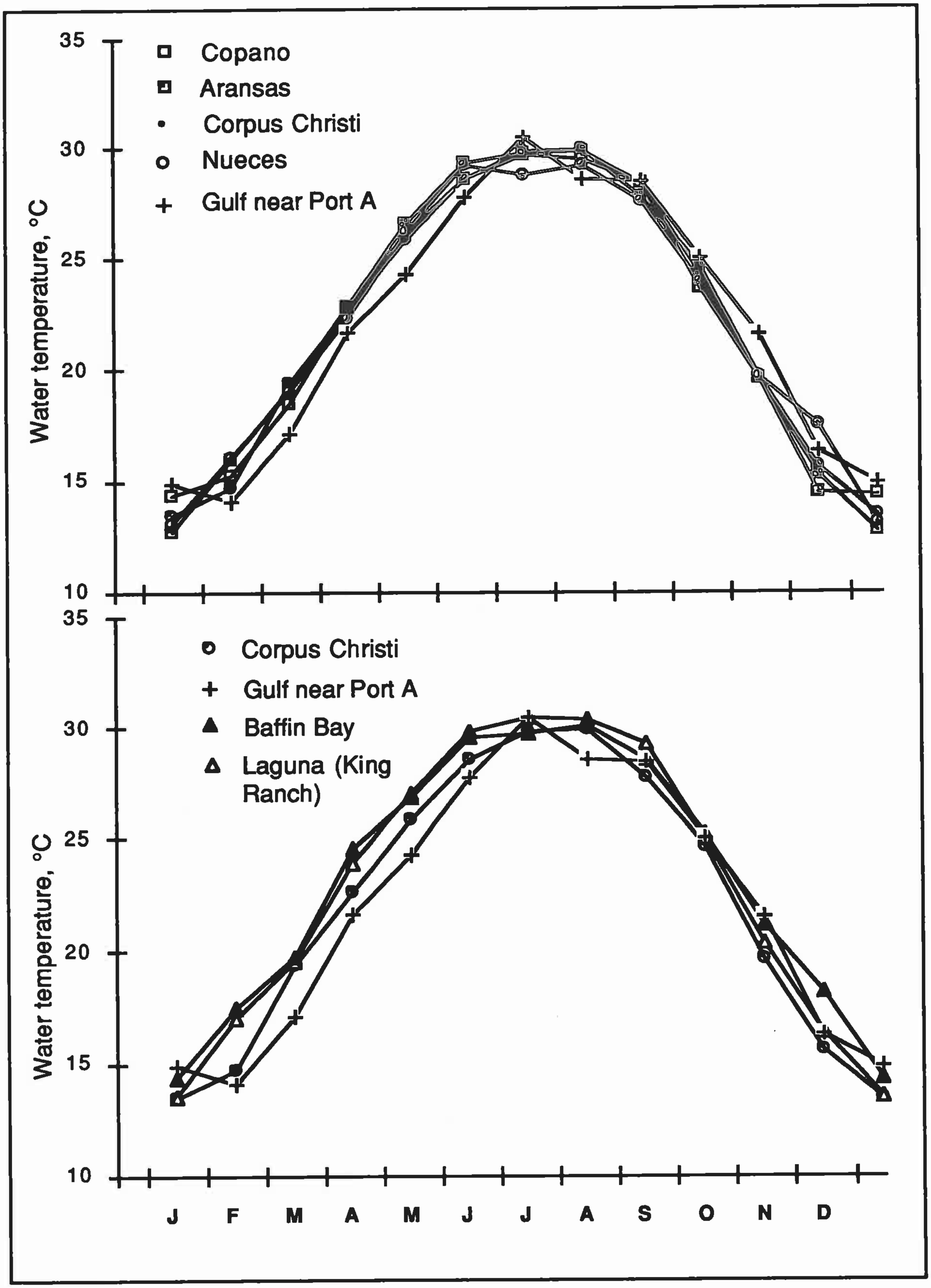

Figure 6-57. Period-of-record monthly-mean temperature (WQTEMP), upper 1 m, upper bays (above) and lower bays (below)

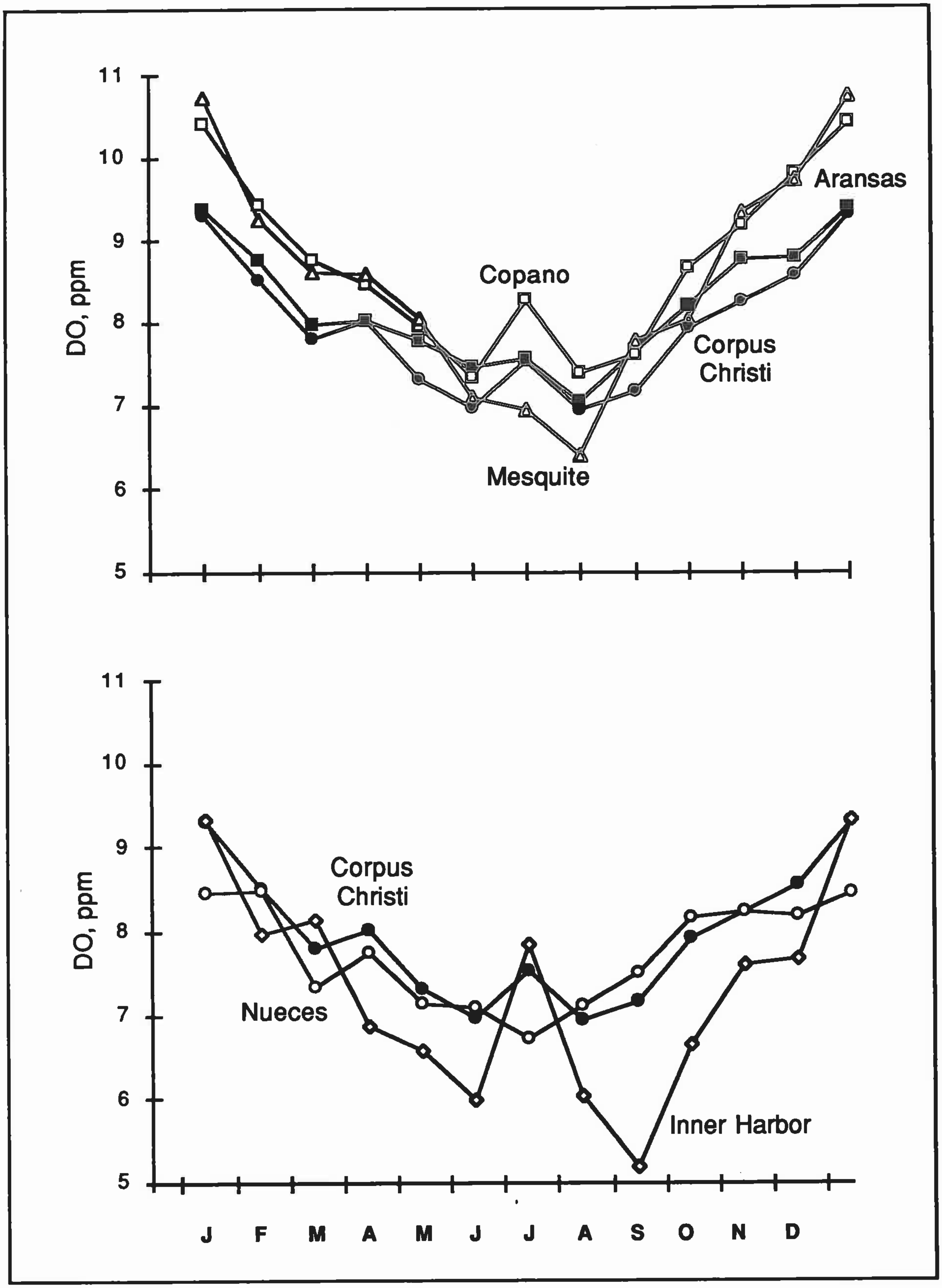

Figure 6-58. Period-of-record monthly-mean DO (WQDO) in upper 1 meter, upper bays (above), Nueces region (below)

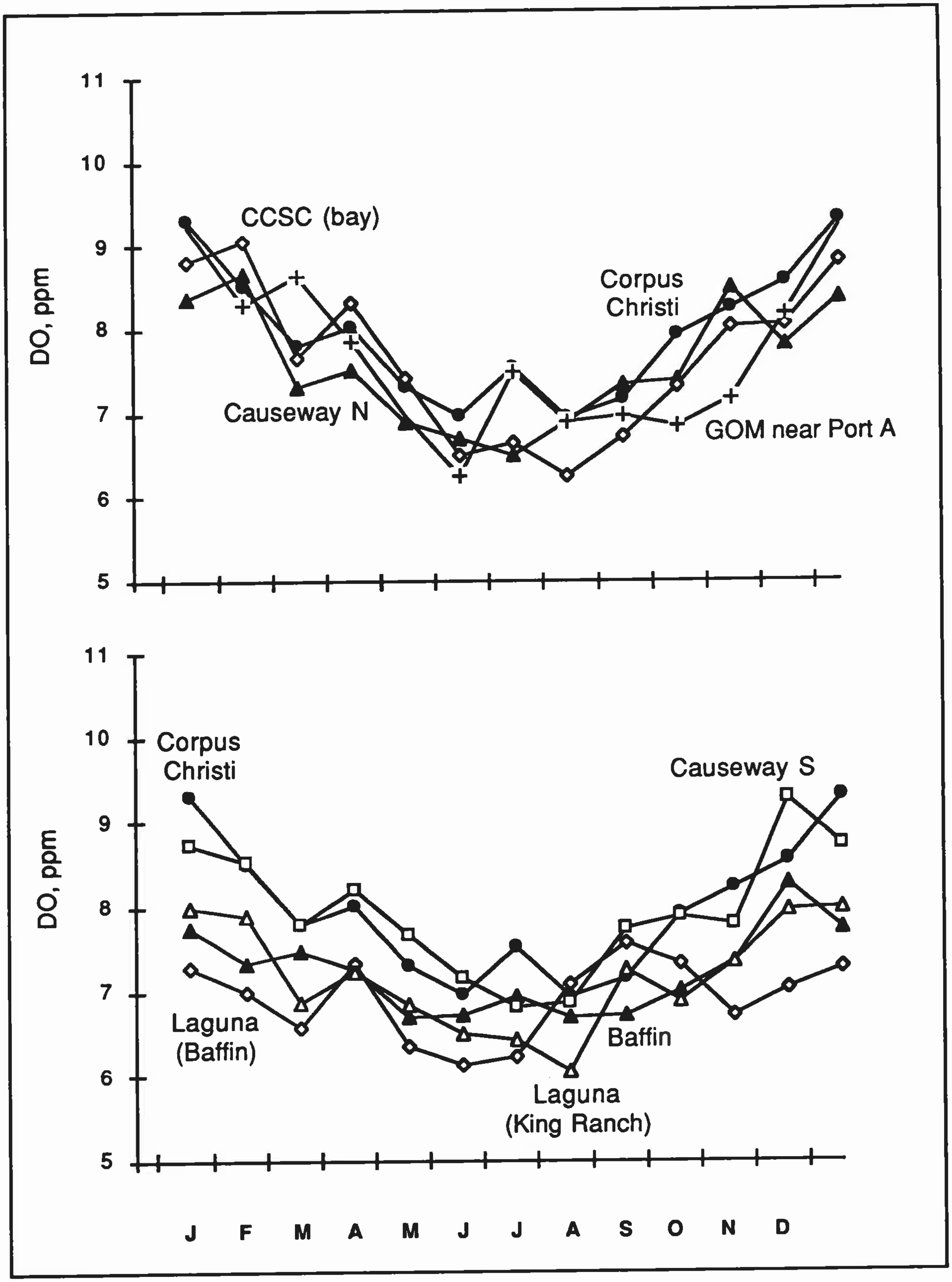

Figure 6-59. Period-of-record monthly-mean DO (WQDO) in upper 1 meter, Corpus Christi system (above), Laguna region (below)

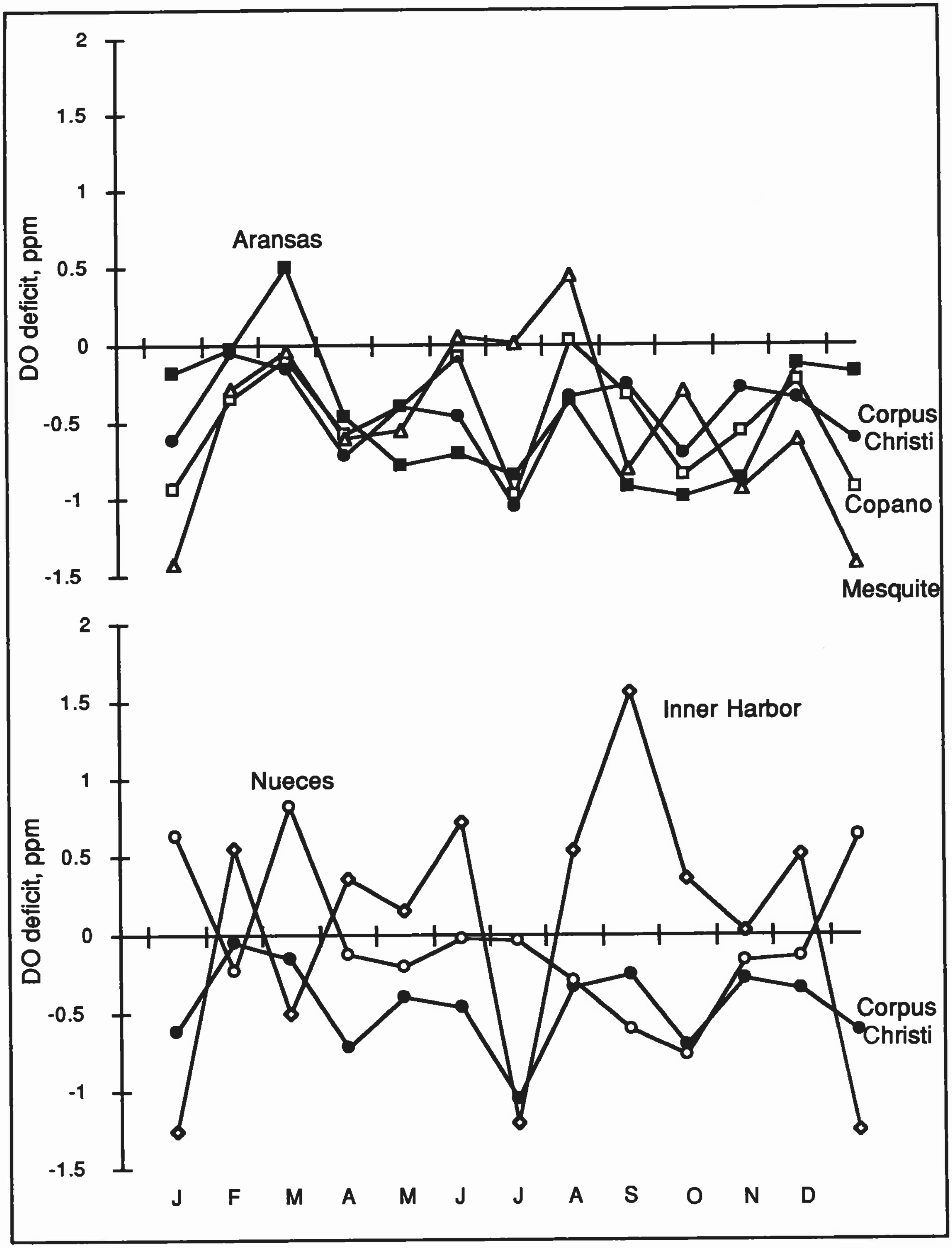

Figure 6-60. Period-of-record monthly-mean DO deficit (WQDODEF) in upper 1 meter, upper bays (above), Nueces region (below)

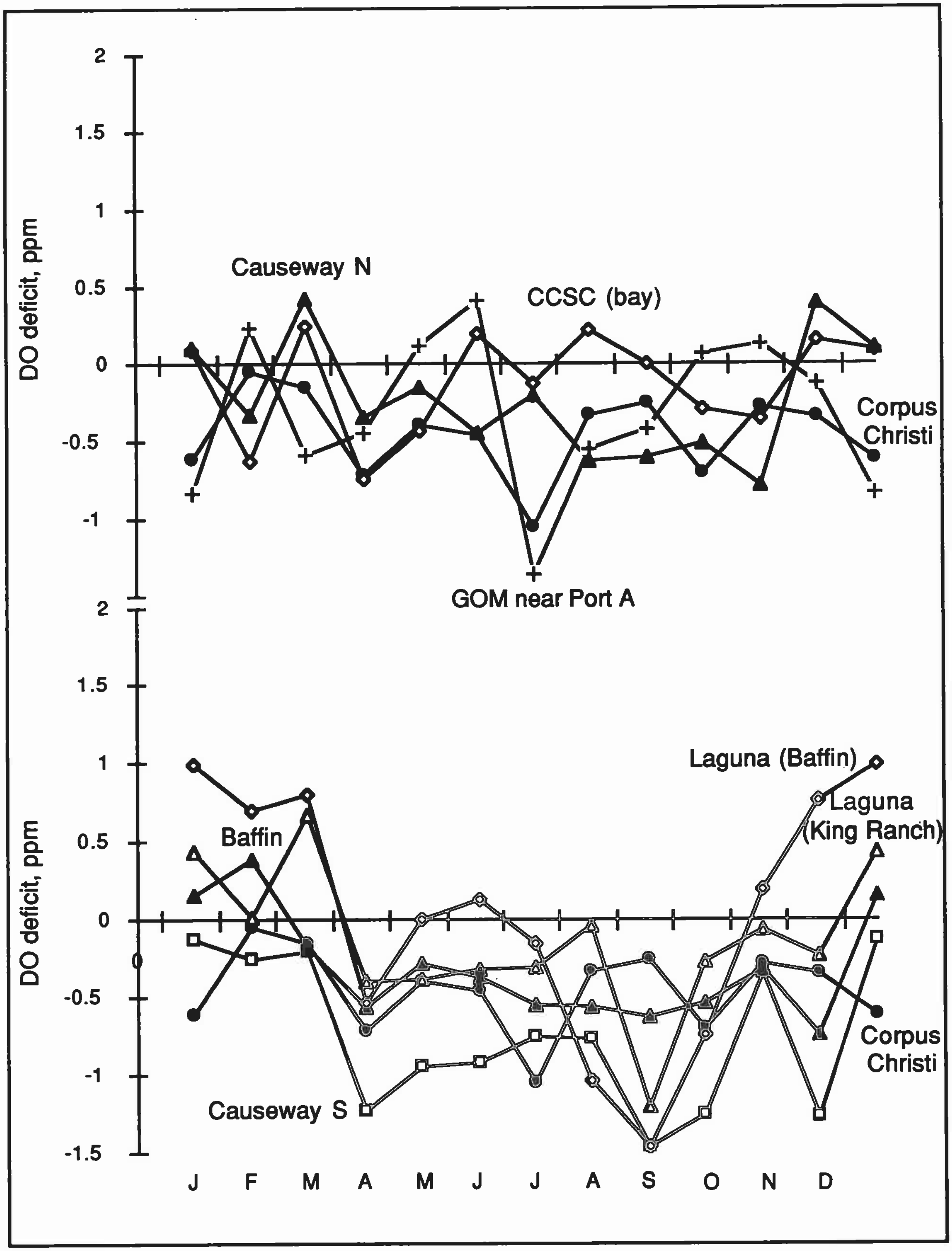

Figure 6-61. Period-of-record monthly-mean DO deficit (WQDODEF) in upper 1 meter, Corpus Christi system (above), Laguna region (below)

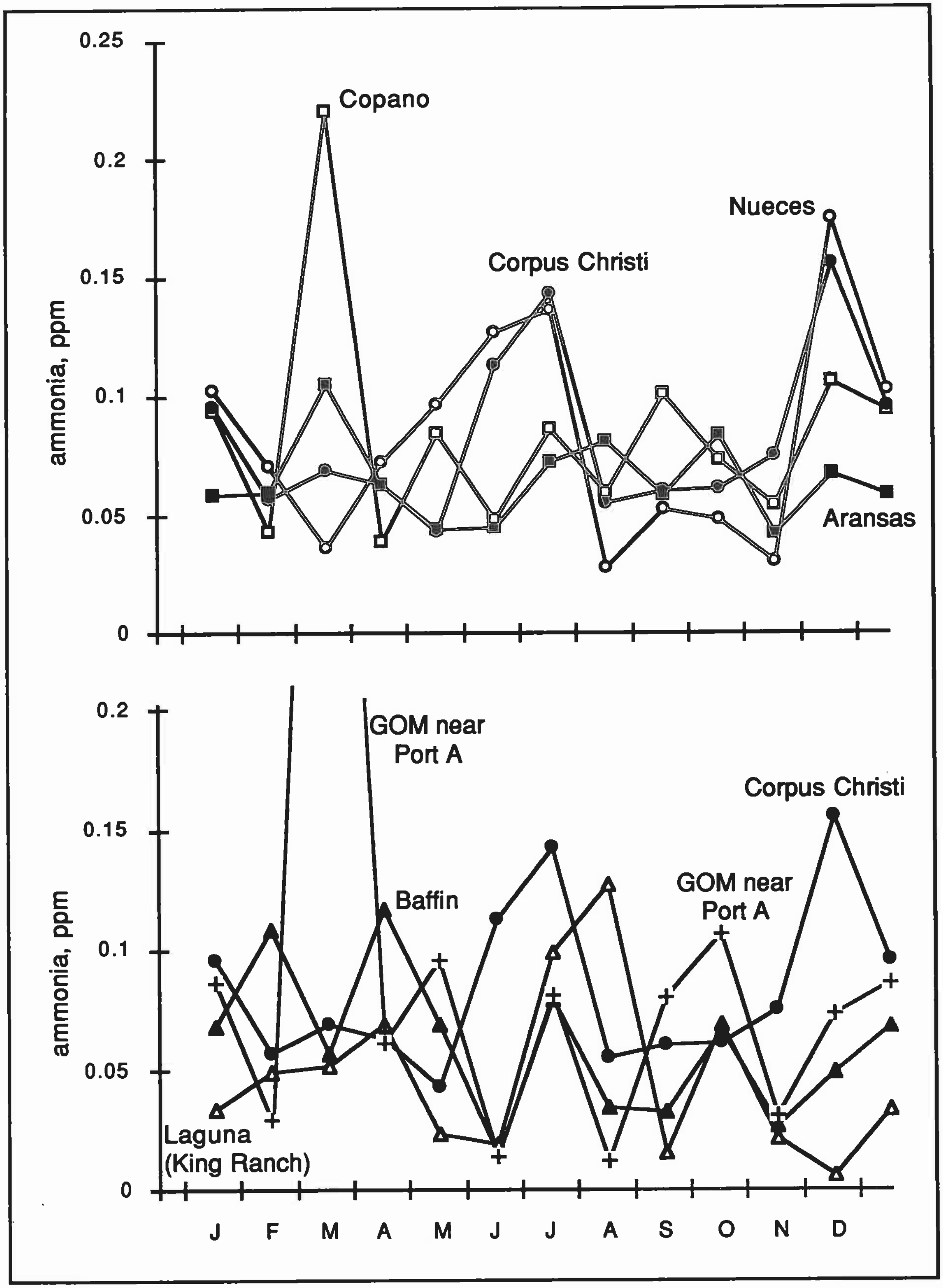

Figure 6-62. Period-of-record monthly-mean ammonia (WQAMMN) upper bays (above) and lower bays (below)

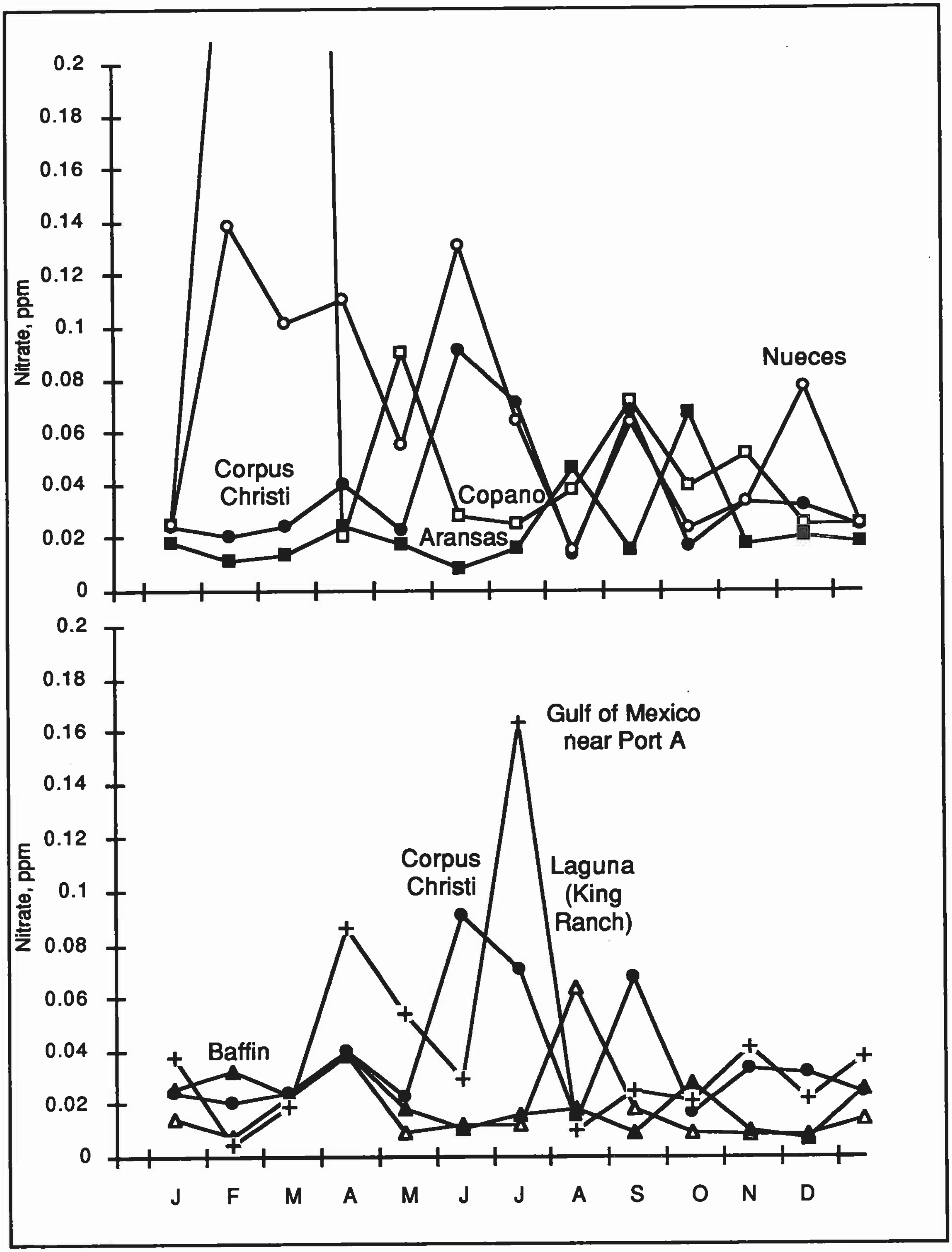

Figure 6-63. Period-of-record monthly-mean nitrate (WQNO3N), upper bays (above), lower bays (below)

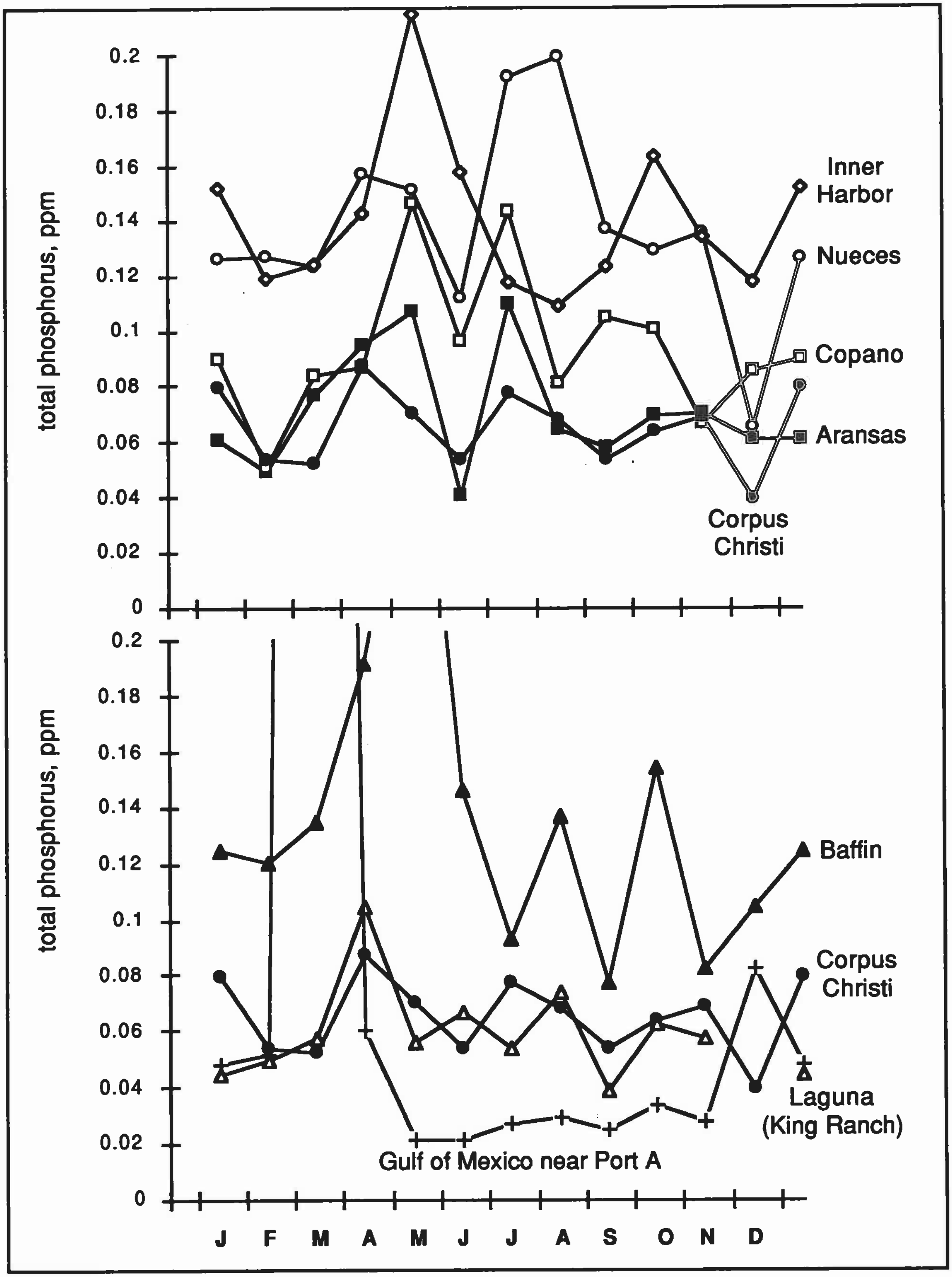

Figure 6-64. Period-of-record monthly-mean total phosphorus (WQTOTP), upper bays (above), lower bays (below)

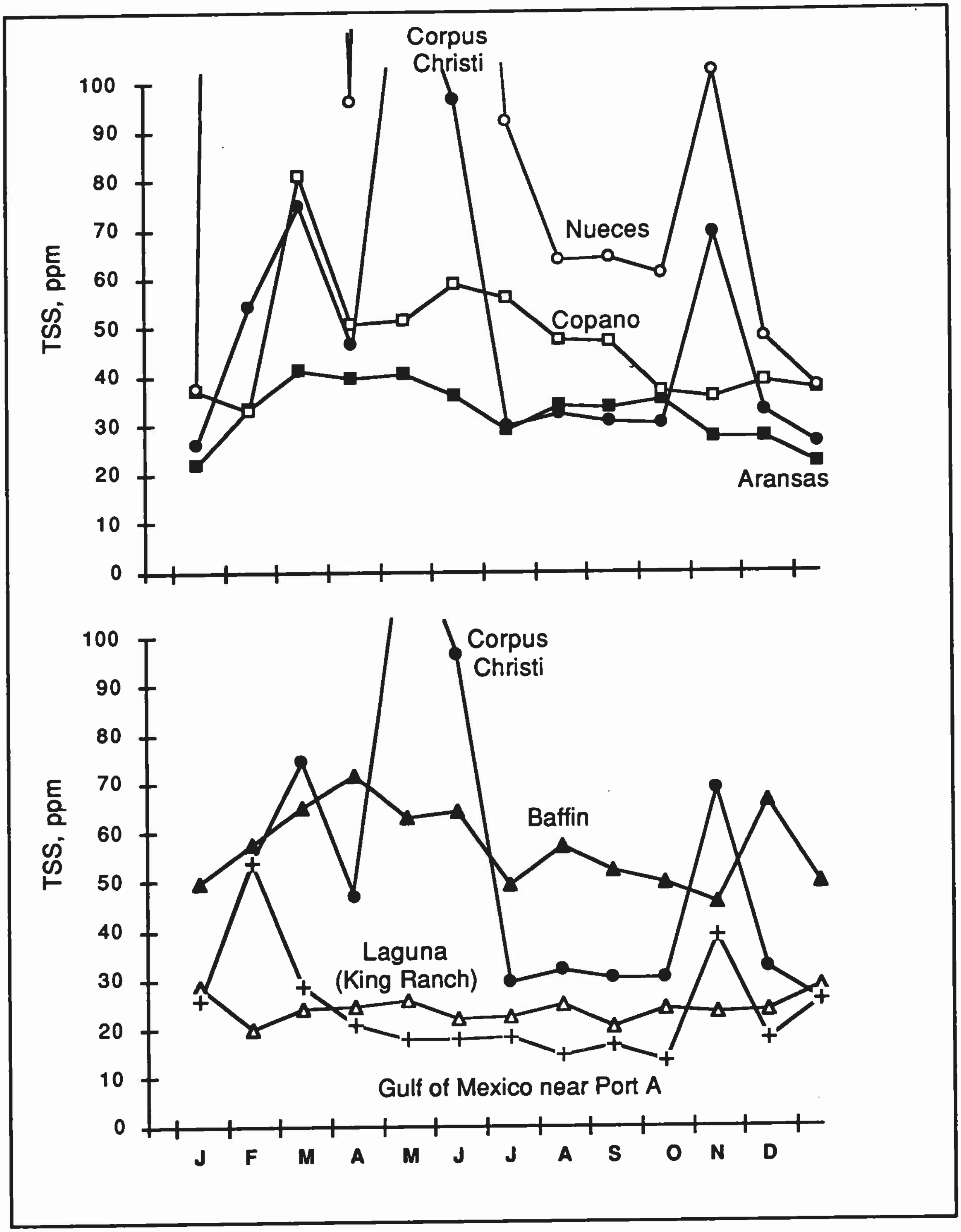

Figure 6-65. Period-of-record monthly-mean proxy TSS (WQXTSS), upper bays (above), lower bays (below)

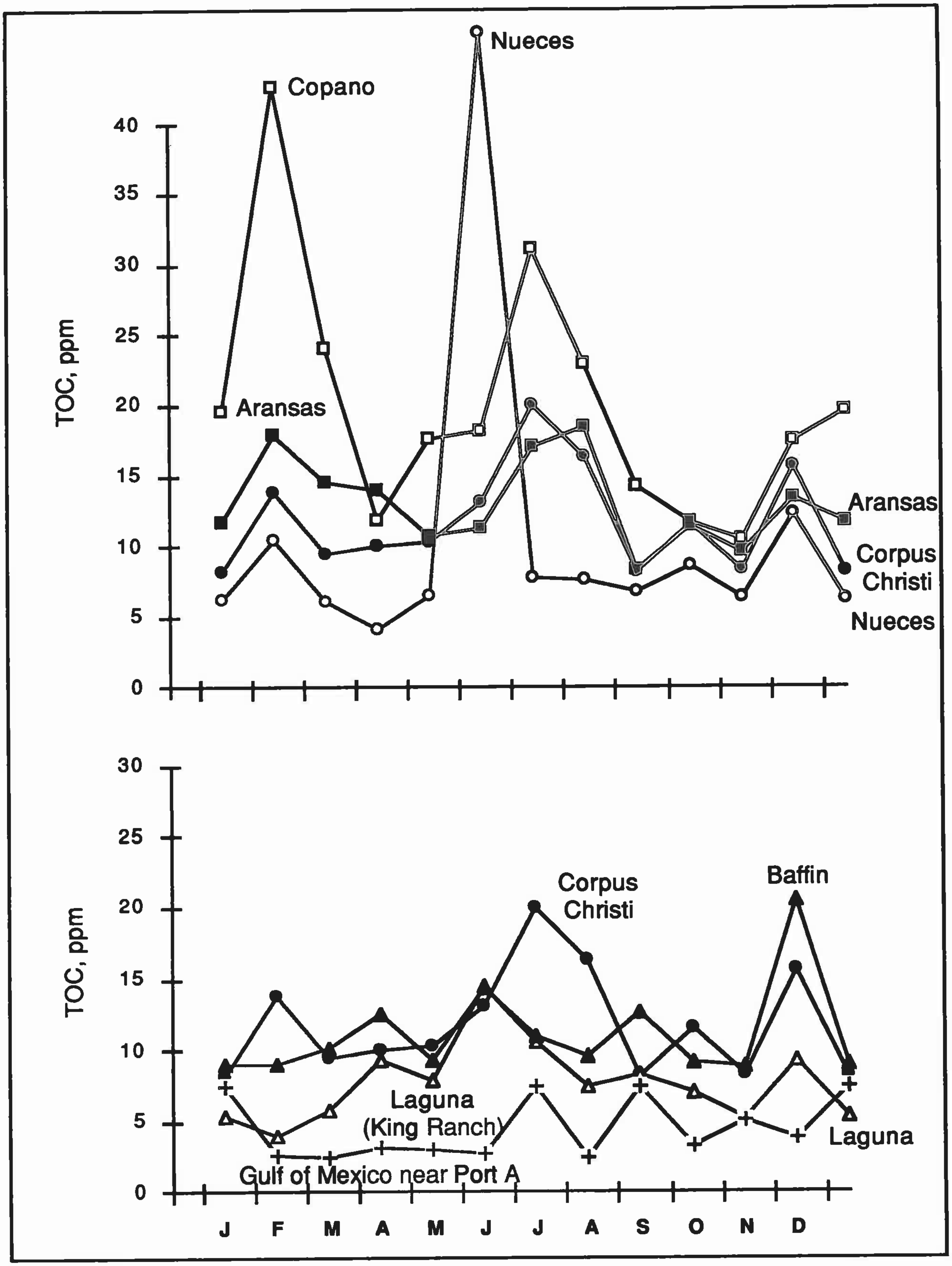

Figure 6-66. Period-of-record monthly-mean TOC (WQTOC), upper bays (above), lower bays (below)

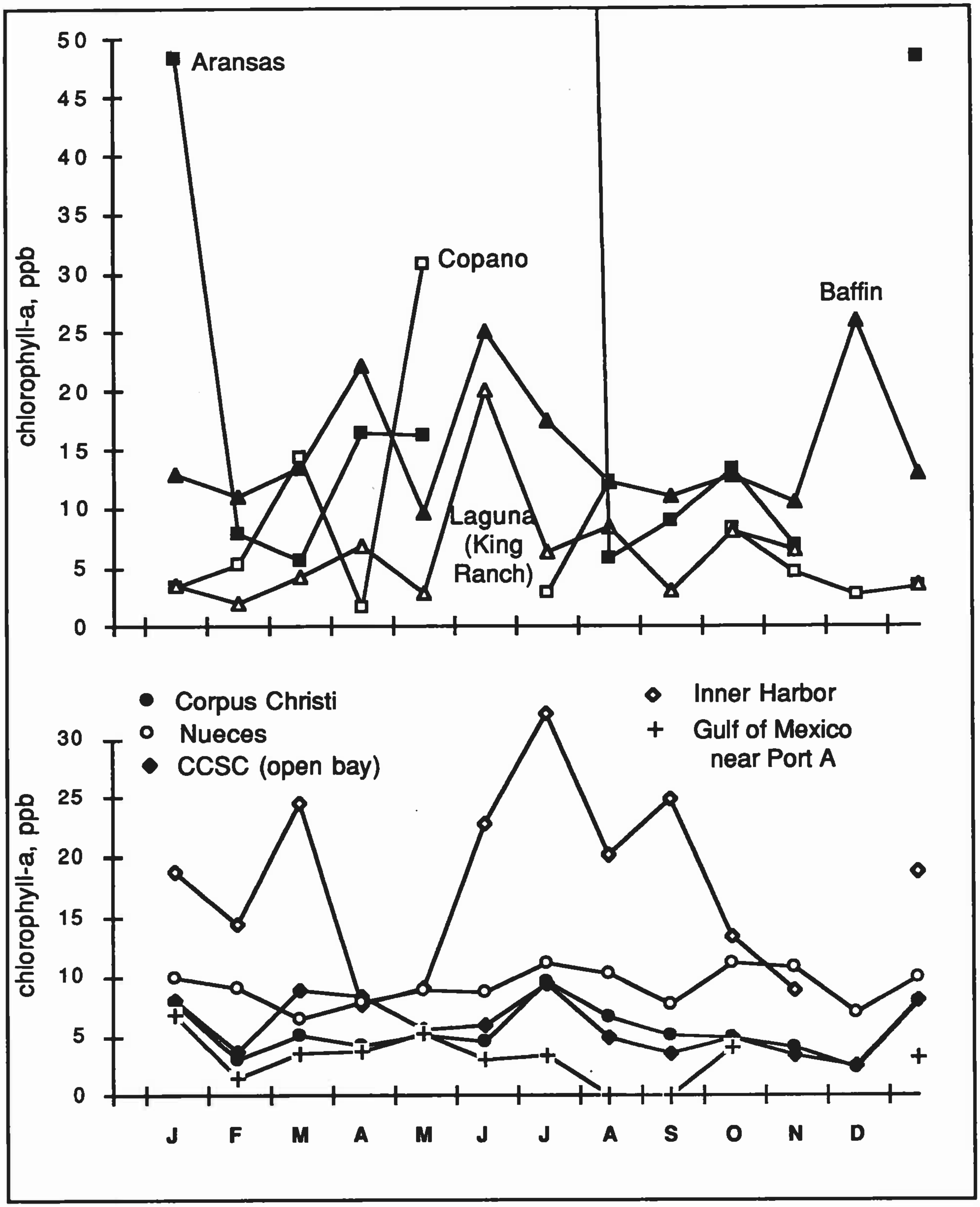

Figure 6-67. Period-of-record monthly-mean chlorophyll-a (WQCHLA), outer bays (above), Corpus Christi system (below)

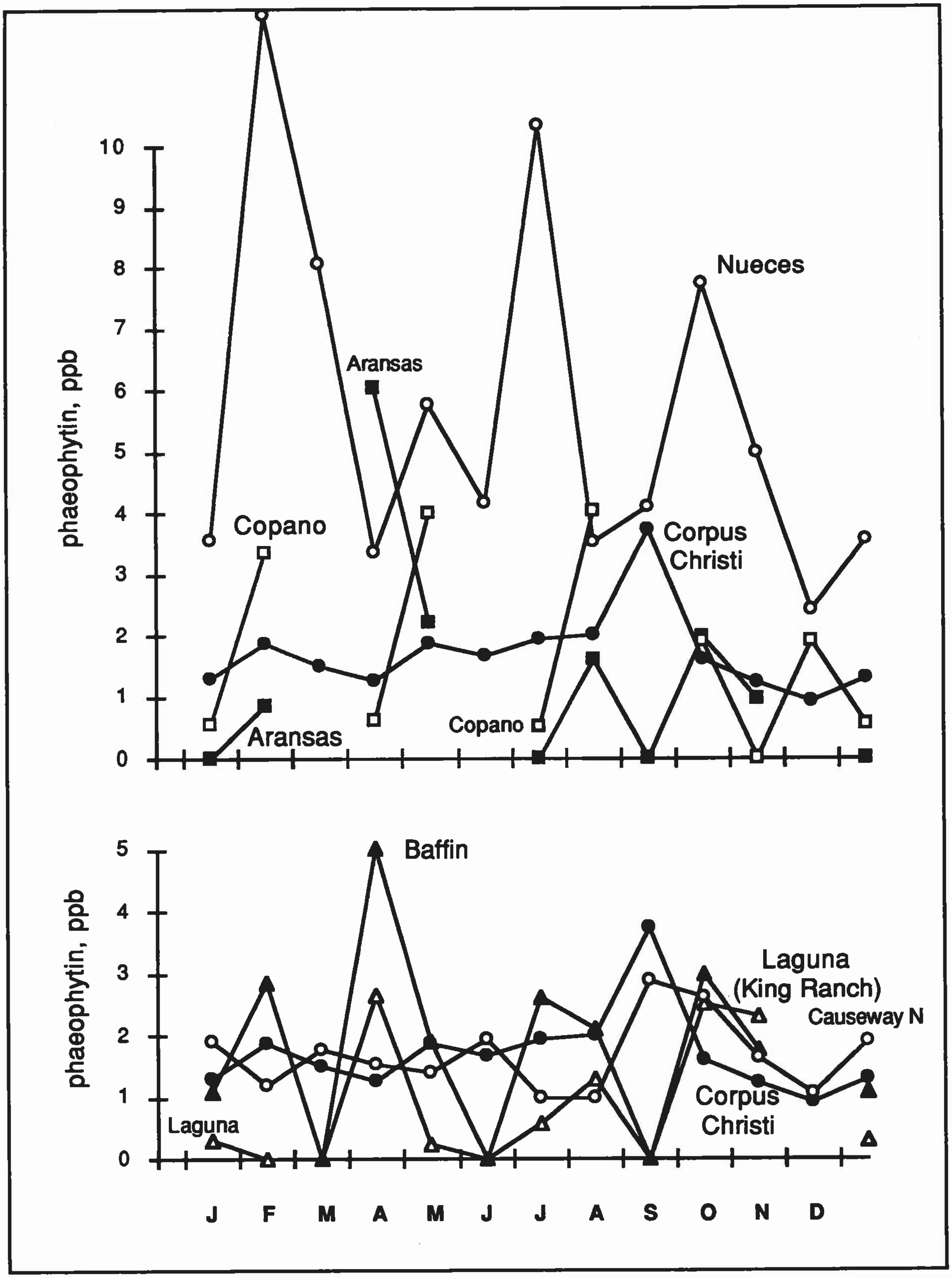

Figure 6-68. Period-of-record monthly-mean phaeophytin (WQPHEO), upper bays (above), lower bays (below)

6.2 Time Trends in Water Quality

As discussed in Section 6.1, the statistical analyses for each parameter are presented in a pair of tables, the second of which tabulates the Time Trend Analysis. Examples are Tables 6-36 and 6-37, which are the companions to Tables 6-2 and 6-3, for, respectively, ammonia (WQAMMN) and proxy TSS (WQXTSS). The only difference between these tables and those given in Appendix B for each of the water-phase analytes is that these show all of the hydrographic area segments, whereas those in the Appendix exclude those segments without data, to conserve space. As with the Period of Record statistics, special treatment is given temperature, salinity and dissolved oxygen deficit. Analyses of near-surface data, seasonally aggregated (in the case of temperature and salinity), are presented in Tables 6-38 through 6-40, the companion tables to Tables 6-8, 6-9 and 6-12.

Time trend analysis was approached by a linear least-squares regression of the (non-BDL) measurements versus time. The period of record, the period used for the time-trend analysis (which may differ from the former because BDL values are part of the measurement record but are excluded from the trend analysis), and the average observations per year entering the analysis, all provide an indication of the abscissa range and hence statistical validity of the trend analysis. Clearly, the shorter the period of time over which usable data are available, and the smaller the number of observations per year, the more limited the statistical validity of the trend analysis (though some of the other indicators, such as standard error and residual variance, may be misleadingly sanguine).

From the water-quality analysis viewpoint, the most important regression parameter is the slope of the trend line. This is the average (in the least-squares sense) rate of increase (if positive) or decrease (if negative) in the magnitude of the water quality variate, in units of the variate per year. It is the key indicator of a systematic change in that water-quality variate. The intercept is the average value (least-squares sense) of the trend at the beginning of the period of analysis. The trend line will pass through the centroid of the measured concentrations, the average >DL of the Period of Record Statistics (Tables 6-2 and 6-3, in the present examples). Finally, the standard error of the estimate (SEE, in units of the variate) and the residual variance (as a fraction ≤ 1) provide a measure of scatter about the trend line. The larger these two indicators are, the greater the scatter about the trend line indicated. This communicates both the extent of observed variability that may be systematic in time, and the uncertainty of the computed trend. It should also be noted, however, that a least-squares trend line is not judged by its explained variance (or linear correlation coefficient) because we are not seeking to *explain* the observed variability in a parameter only in terms of the passage of time. Indeed, considering the many sources of variation in the Corpus Christi system, we expect time to be a relatively minor contributor to variance in measured concentrations. Even if such a trend line "explains" only, say, 1 per cent of the variance of a constituent, it can still provide insight into long-term alterations in the water quality "climate" of the system.

Our concern with the scatter about the trend line is, rather, to be able to judge the "reality" of the computed trend. To this end, two additional parameters are provided in the Time Trend tables, *viz*. the upper and lower 95% confidence bounds of the *slope* of the regression line, given by

$$m \pm t\{0.025,n\text{-}2\} \bullet \sqrt{[SEE^2/(varT)(n\text{-}2)]} \qquad (6\text{-}2)$$

where m denotes the slope of the trend line, n the number of data points, varT the variance of sample date, and t{p,N} is the critical point of Student's t-distribution for a one-sided probability < p with N degrees of freedom. We define a *probable trend* to be one for which *both* of the 95% confidence bounds have the same sign. In interpreting this analysis one must bear in mind that this entails a 1/40 failure rate (i.e., Type-I error, slope judged as significant when it is not), so this is a very stringent definition of "probable." We define a *possible* trend as one in which both of the 80% confidence bounds have the same sign, i.e. a 1/10 risk of misjudging the sign of the trend.

Confidence bounds for different levels of uncertainty can be constructed from the data of the Time Trend table, by backing out the value of $\xi \equiv \sqrt{[SEE^2/(varT)(n\text{-}2)]}$ in (6-2) above and selecting a different value of t from a table of t-distributions. The most important diagnostic is when both 95% confidence bounds have the *same* sign, indicating that the real trend has that sign (with a 97.5% probability), the circumstance we are referring to here as a "probable" trend. In many instances, the 95% confidence bounds have different signs, but one bound is of much greater absolute magnitude than the other, i.e. the confidence band is highly asymmetric about 0. To determine whether a different choice of confidence limit would have produced bounds of the same sign, it is simpler to merely compare the ratios of the magnitudes of the 95%-bounds as given, rather than to recompute the bounds with a different t-value. One need only specify the *ratio* $r \equiv t\{.025\}/t\{x\}$. If $|b_1|/|b_2| < (r-1)/(r+1)$, then the confidence bounds for the x-level have the same sign. For example, use t{.05}, corresponding to 90% confidence bounds; an inspection of a table of t-distributions discloses that $r \leq 1.25$ for more than 5 degrees of freedom, hence the 90% confidence bands will have the same sign if the magnitudes of the 95% bands (that are of different sign) exceed about a 10:1 ratio. Thus one can use the information in these Time Trend tables by quick inspection to estimate other confidence bounds on the slope.

As in any statistical inference, establishing the slope and intercept of a linear trend line is subject to the assumption that the available data are an adequate sampling of the population. The above equation measures some of this, in that the accuracy of the slope estimate degenerates, i.e., the confidence bounds become larger, as the scatter about the regression (SEE) increases, the number of data points n decreases, and the spread in time (varT) decreases. But a handful of data points spuriously clustered at both ends of the period of record can yield a high confidence in the slope, which one would dismiss as fictitious based upon his external knowledge about the normal variability of the water quality variate. A very small value of SEE can be just as indicative of a spurious correlation, as a high value is of no relationship. We note also that this analysis does not distinguish between a statistically unresolvable trend and a trend of zero.

In this respect, the behavior of the parameter in neighboring areas of the bay, and direct inspection of the data, should be used in determining whether to accept the statistical calculation of trend. The present analysis has a distinct advantage in statistical interpretation compared to the usual problem of interpreting a trend analysis of a set of data, namely that here we have sorted the data into separate geographical segments, each one of which represents an *independent* data set for trend analysis. This not only provides insight into spatial variation in water quality in Corpus Christi Bay, but also the regional coherence of trends is a strong indicator of whether the trends are real or are some statistical artifact (including the 1/40 chance of occurring by random variation).

In Figs. 6-69 *et seq*., the distribution of positive and negative trends for key parameters is depicted graphically, by zones of "probable" and "possible" trends, as defined above. The depictions of these figures are based upon the time-trend tables given in Appendix B, except for the specially treated salinity, temperature, and DO deficit of Tables 6-38 *et seq*. (To conserve space, only selected regions of the study area or selected parameters are plotted in this way.) Consider the indicated trends of near-surface salinity in Copano Bay, Fig. 6-69. Each of segments CP02 through CP10 except CP06 displays an *increasing* trend in salinity, either possible or probable. The data set for each segment is drawn from different projects at different times, and an inspection of Table 6-38 discloses that the periods of analysis differ. We might be tempted to dismiss the fitted trend for any one of these segments as a statistical artifact. But taken together, the trends in these eight segments argue for the reality that salinity is increasing in Copano Bay, an inference that is further supported by the probable increasing trends in Port Bay (PB1 and PB2), inlet cove of the Aransas (AR1), and in St. Charles Bay (SC1-SC3). In other cases, the spatial distribution of trends has no obvious coherence, and one must carefully inspect the data base for each segment to determine which is probably more reliable. An example is near-surface salinity in Baffin Bay, Fig. 6-73, which trends upward in some segments, downward in others. For BF1-BF3, Table 6-36, the periods of record are long, dating back to the 1950's, and the number of samples per year are about equal. One is forced to the conclusion that either one or more of these trends is an artifact, improbable though that may be, or there are local or regional influences on salinity that affect areas of the bay in different ways. The most striking example of spatial coherence is the proxy TSS for the Upper Laguna Madre (Fig. 6-100) and Baffin Bay (Fig. 6-101), for which literally every segment (for which data exist) displays a *probable* declining trend.

In addition to the selected map displays of Figs. 6-69 et seq., Tables 6-42 through 6-51 show summary results of the trend analyses for significant parameters, based upon the principal component bay grouping introduced above, but without the individual segment information (which can be obtained from Appendix B).

Table 6-36
Time Trend Analysis for Hydrographic Area Segments: WQAMMN

Seg-ment	Period of record dates		Analysis period Start date	End date	Avg obs /yr	Regression on time slope (per yr)	intercept (@ start)	SEE	residual variance	95% confidence limits on slope lower	upper	
A1	741017	750827	741017	750827	8.1	-6.44E-03	0.004	0.00294	0.705	-1.80E-02	5.00E-03	
A2	720330	790501	720330	790501	4.4	-1.38E-02	0.13	0.0728	0.875	-2.80E-02	8.30E-05	poss
A3	710608	820408	710608	820408	5.6	-4.27E-03	0.09	0.0718	0.975	-1.10E-02	2.60E-03	
A4	831117	890729	831117	890729	6.0	-9.36E-04	0.027	0.0145	0.988	-4.00E-03	2.10E-03	
A5	710608	750827	710608	750827	2.6	-3.88E-03	0.02	0.00593	0.507	-6.80E-03	-9.20E-04	prob
A10	710608	710608										
A12	710608	820408	710608	820408	7.5	4.14E-03	0.05	0.0656	0.977	-1.90E-03	1.00E-02	poss
A13	740723	740723										
AL1	840808	840808										
AL2	720928	890728	720928	890728	2.6	-3.05E-03	0.084	0.0463	0.857	-5.40E-03	-7.40E-04	prob
AR1	690520	930408	691029	920929	1.9	-3.16E-03	0.14	0.0895	0.935	-6.80E-03	5.30E-04	poss
BF1	680827	931015	680827	931015	10.0	-1.38E-02	0.35	0.197	0.896	-1.90E-02	-8.80E-03	prob
BF2	691105	931015	691105	931015	5.3	-6.87E-03	0.18	0.0772	0.687	-8.70E-03	-5.10E-03	prob
BF3	680827	931015	680827	931015	7.0	-4.88E-03	0.15	0.0652	0.851	-6.60E-03	-3.10E-03	prob
C02	701013	930512	701013	930106	3.1	-8.01E-04	0.081	0.0764	0.995	-3.60E-03	2.00E-03	
C03	701013	880810	701013	880810	3.0	-4.27E-03	0.18	0.132	0.958	-9.90E-03	1.30E-03	poss
C04	710506	880810	710506	880810	1.5	3.11E-03	0.026	0.0696	0.961	-3.40E-03	9.60E-03	poss
C05	720920	830628	720920	830628	6.2	2.34E-03	0.07	0.102	0.993	-4.60E-03	9.30E-03	poss
C06	701013	741212	701013	741212	8.6	2.12E-02	0.013	0.0332	0.677	1.10E-02	3.20E-02	prob
C07	711105	890729	711105	890729	5.5	-6.62E-03	0.12	0.0964	0.854	-9.90E-03	-3.40E-03	prob
C08	870923	880810	870923	880810	27.0	4.66E-02	0.07	0.082	0.975	-8.30E-02	1.80E-01	poss
C09	741024	830628	741024	830628	2.5	1.22E-02	0.023	0.164	0.949	-1.20E-02	3.70E-02	poss
C10	690326	890729	690326	890729	5.6	-2.38E-03	0.094	0.0671	0.952	-4.40E-03	-3.90E-04	prob
C11	690917	890729	690917	890729	9.2	-3.74E-03	0.1	0.0835	0.945	-6.00E-03	-1.50E-03	prob
C12	711105	890729	711105	890729	7.0	-2.87E-03	0.089	0.11	0.969	-5.80E-03	1.50E-05	poss
C14	690326	930715	690326	930715	16.0	-1.68E-03	0.076	0.0516	0.964	-2.50E-03	-8.10E-04	prob
C15	680530	930413	680530	930413	10.0	-6.40E-03	0.17	0.161	0.929	-9.30E-03	-3.50E-03	prob

(continued)

Table 6-36
(continued)

Seg-ment	Period of record dates		Analysis period Start date	End date	Avg obs /yr	Regression on time slope (per yr)	intercept (@ start)	SEE	residual variance	95% confidence limits on slope lower	upper	
C17	701013	890122	701013	890122	7.0	-7.91E-04	0.072	0.0969	0.998	-3.60E-03	2.00E-03	
C20	871020	880810	871020	880810	27.0	6.34E-02	0.046	0.0502	0.905	-2.80E-02	1.50E-01	poss
C21	711105	890729	711105	890729	3.4	-3.55E-03	0.1	0.0389	0.906	-6.40E-03	-7.00E-04	prob
C22	721219	741212	721219	741212	11.0	-3.68E-02	0.15	0.0404	0.782	-6.90E-02	-4.20E-03	prob
C23	870923	880810	870923	880810	27.0	8.03E-02	0.05	0.0896	0.941	-6.10E-02	2.20E-01	poss
C24	690916	890729	690916	890729	2.9	4.91E-03	-0.034	0.0712	0.965	-2.00E-03	1.20E-02	poss
CB	711111	820408	711111	820408	6.4	-4.22E-03	0.095	0.091	0.987	-1.30E-02	4.80E-03	
CBY1	870126	880707	870126	880707	8.3	1.08E-02	0.02	0.0197	0.935	-1.80E-02	4.00E-02	poss
CCC1	690326	890729	690326	890729	7.0	-3.84E-04	0.051	0.0418	0.996	-1.40E-03	6.50E-04	
CCC2	740723	810507	740723	810507	0.7	3.19E-02	0.1	0.179	0.74	-6.70E-02	1.30E-01	poss
CCC3	680326	890729	680326	890729	4.9	-8.44E-04	0.069	0.0594	0.989	-2.40E-03	7.00E-04	
CCC4	740723	850423	740723	801203	0.8	0.00E+00	0.1	0	0	0.00E+00	0.00E+00	
CCC5	711111	881107	711111	881107	3.3	6.31E-03	-0.035	0.0724	0.929	1.50E-04	1.20E-02	prob
CCC6	690717	930512	690717	930512	2.5	-5.93E-03	0.16	0.0719	0.69	-8.20E-03	-3.60E-03	prob
CCC7	690325	890729	690325	890729	15.0	-2.85E-03	0.091	0.0588	0.909	-3.90E-03	-1.80E-03	prob
CCC8	731024	930512	731024	930512	4.8	-2.56E-02	0.48	0.648	0.949	-4.90E-02	-2.70E-03	prob
CP02	711105	760819	711105	760819	5.2	-2.19E-03	0.032	0.0357	0.992	-1.30E-02	8.40E-03	
CP03	710609	760819	710609	760819	9.2	-1.61E-02	0.13	0.12	0.97	-4.30E-02	1.10E-02	
CP04	710915	710915										
CP05	710609	750827	710609	750827	9.7	-8.14E-03	0.097	0.0614	0.976	-2.50E-02	8.30E-03	
CP07	710609	820408	710609	820408	7.3	-3.95E-03	0.079	0.0739	0.982	-1.00E-02	2.60E-03	
CP09	770210	820408	770210	820408	1.9	2.79E-02	-0.0049	0.0941	0.785	-1.60E-02	7.10E-02	poss
CP10	690521	930428	690521	930428	5.3	-3.99E-03	0.13	0.151	0.969	-7.90E-03	-5.50E-05	prob
GR1	840808	840808										
GR2	690915	840808	690915	760211	3.0	2.79E-02	-0.024	0.1	0.866	-8.50E-03	6.40E-02	poss
HI2	770210	770210										
I2	690716	730606	690716	730606	3.1	-1.19E-01	0.47	0.268	0.784	-2.80E-01	4.10E-02	poss
I3	710608	840823	710608	820408	5.1	-3.64E-03	0.11	0.11	0.991	-1.40E-02	6.80E-03	
I4	840508	840823										

(continued)

Table 6-36
(continued)

Segment	Period of record dates		Analysis period Start date	Analysis period End date	Avg obs /yr	Regression on time: slope (per yr)	intercept (@ start)	SEE	residual variance	95% confidence limits on slope: lower	upper	
I5	710608	840823	710608	760419	8.0	-6.51E-03	0.06	0.0402	0.951	-1.60E-02	2.80E-03	poss
I6	690716	930429	690716	930429	2.5	-4.86E-03	0.18	0.168	0.948	-1.00E-02	5.30E-04	poss
I7	710608	890729	710608	890729	3.5	3.02E-04	0.045	0.114	1	-3.80E-03	4.40E-03	poss
I9	680828	890729	680828	890729	11.0	-4.51E-03	0.13	0.137	0.964	-7.60E-03	-1.50E-03	prob
I10	890315	930615	890315	930615	13.0	-5.51E-03	0.027	0.0133	0.78	-8.30E-03	-2.70E-03	prob
I11	680828	701008	680828	701008	2.8	-2.08E-01	0.38	0.139	0.377	-4.30E-01	1.70E-02	poss
I12	731023	930511	731023	930511	2.5	-8.53E-03	0.23	0.184	0.919	-1.70E-02	-1.40E-04	prob
I13	841202	931015	841202	931015	18.0	-1.50E-03	0.033	0.0336	0.991	-4.00E-03	1.00E-03	
I15	680827	930715	680827	930715	3.7	-6.02E-03	0.15	0.0678	0.729	-8.10E-03	-4.00E-03	prob
I17	720227	930715	720227	930715	5.4	-7.04E-03	0.19	0.151	0.914	-1.10E-02	-2.80E-03	prob
IH1	680530	930512	680530	930512	4.6	-2.33E-02	0.76	0.717	0.948	-4.20E-02	-4.70E-03	prob
IH2	770621	820810	770621	820810	0.6	-2.82E-02	0.3	0.0286	0.149	-1.80E-01	1.20E-01	
IH3	770621	820810	770621	820810	1.6	-2.37E-02	0.3	0.0451	0.423	-4.40E-02	-3.40E-03	prob
IH4	770621	820810	770621	820810	1.0	-8.27E-03	0.2	0.0426	0.863	-4.60E-02	3.00E-02	
IH5	680530	930512	680530	930512	5.0	-2.54E-02	0.74	0.646	0.922	-4.10E-02	-9.80E-03	prob
IH6	731024	930512	731024	930512	4.1	-2.13E-02	0.49	0.444	0.93	-3.90E-02	-3.90E-03	prob
IH7	680530	830628	680530	830628	6.3	1.57E-02	0.11	0.176	0.879	7.00E-03	2.40E-02	prob
INL	740723	840628	740723	820317	0.4	9.15E-02	0.1	1.83E-08	0	9.20E-02	9.20E-02	prob
LAC	710608	820408	710608	820408	4.2	5.53E-03	0.044	0.082	0.953	-1.90E-03	1.30E-02	poss
LQ1	801203	850423										
LQ2	731024	930512	731024	930512	2.5	-8.55E-03	0.23	0.462	0.981	-2.70E-02	9.60E-03	
LS1	840808	931015	890315	931015	12.0	8.84E-03	0.012	0.0599	0.964	-3.60E-03	2.10E-02	poss
LS2	690915	931015	690915	931015	2.8	-1.41E-03	0.051	0.0368	0.917	-2.60E-03	-2.70E-04	prob
MB1	730912	930506	730912	930506	2.7	-5.39E-03	0.15	0.147	0.952	-1.20E-02	1.20E-03	poss
MB2	870126	880707	870126	880707	16.0	7.67E-03	0.027	0.03	0.985	-2.00E-02	3.50E-02	poss
NB1	870923	880811	870923	880811	130.0	8.17E-02	0.06	0.0825	0.933	2.40E-02	1.40E-01	prob
NB2	870923	880811	870923	880811	27.0	3.99E-02	0.077	0.0724	0.977	-7.40E-02	1.50E-01	poss
NB3	831128	890729	831128	890729	10.0	1.21E-02	0.018	0.0558	0.909	2.00E-03	2.20E-02	prob
NB4	780613	930413	780613	930413	19.0	1.97E-02	-0.071	0.0876	0.933	1.10E-02	2.80E-02	prob

(continued)

Table 6-36
(continued)

Seg-ment	Period of record dates		Analysis period Start date	End date	Avg obs /yr	Regression on time slope (per yr)	intercept (@ start)	SEE	residual variance	95% confidence limits on slope lower	upper	
NB5	690326	930413	690326	930413	21.0	-4.50E-04	0.096	0.0793	0.999	-1.80E-03	9.00E-04	
NB6	690326	880811	690326	880811	3.4	-3.86E-03	0.15	0.12	0.951	-8.10E-03	3.50E-04	poss
NB7	731015	930413	731015	921123	2.1	2.87E-03	0.11	0.193	0.992	-7.50E-03	1.30E-02	poss
NB8	871021	880811	871021	880811	25.0	2.61E-02	0.058	0.0629	0.988	-9.00E-02	1.40E-01	poss
NB9	880324	880811	880324	880811	21.0	1.86E-01	0.02	0.0624	0.813	-2.00E-01	5.70E-01	poss
ND2	781017	790608	781017	790608	25.0	5.57E-02	0.078	0.0531	0.95	-8.30E-02	1.90E-01	poss
NR1	680530	730618	680530	730517	5.8	-6.22E-03	0.093	0.138	0.996	-4.50E-02	3.20E-02	
NR3	701012	731016	701012	731016	2.0	-1.99E-01	0.54	0.208	0.462	-4.50E-01	5.70E-02	poss
NR4	730917	920929	740531	920929	6.2	-1.63E-02	0.4	0.288	0.938	-2.80E-02	-4.40E-03	prob
NR5	680530	760830	680530	760830	4.0	2.13E-02	0.0091	0.114	0.915	-3.50E-03	4.60E-02	poss
OS1	720131	930427	720131	930427	2.3	-1.51E-01	8.1	6.61	0.973	-4.10E-01	1.10E-01	
OS3	720115	791101	720425	790828	2.6	-4.31E-02	0.68	0.682	0.981	-2.00E-01	1.20E-01	
OS6	810514	930427	810514	930427	2.8	6.07E-03	0.14	0.461	0.998	-4.30E-02	5.50E-02	poss
OS7	731003	910702	731003	910702	3.1	-4.47E-02	1.2	3.09	0.993	-1.90E-01	1.00E-01	
PB1	731029	930428	731029	930428	2.6	-8.70E-03	0.19	0.214	0.942	-1.90E-02	1.30E-03	poss
RB1	710608	730419	710608	730419	9.7	-2.44E-02	0.067	0.0343	0.846	-5.50E-02	6.00E-03	poss
RB3	690326	921013	690326	921013	2.4	3.86E-03	0.073	0.222	0.987	-5.20E-03	1.30E-02	poss
RB5	721220	741212	721220	741212	11.0	0.00E+00	0.1	0	0	0.00E+00	0.00E+00	
RB6	721215	741214	721215	741214	11.0	0.00E+00	0.1	0	0	0.00E+00	0.00E+00	
RB7	781017	790608	781017	790608	12.0	-5.02E-02	0.06	0.0276	0.864	-1.80E-01	7.60E-02	
RB8	710506	930427	710506	930427	4.5	-9.39E-04	0.087	0.114	0.997	-4.30E-03	2.50E-03	
RB9	740723	890729	740723	890729	0.4	-5.42E-03	0.1	0.000855	0.001	-5.60E-03	-5.20E-03	prob
SC2	711105	760819	711105	760819	5.4	-4.70E-02	0.19	0.234	0.908	-1.10E-01	1.50E-02	poss
SC3	710608	930428	710608	930428	4.0	-6.75E-03	0.18	0.301	0.981	-1.70E-02	3.60E-03	
UL03	690916	930715	690916	930715	2.2	-1.60E-03	0.058	0.0424	0.969	-4.10E-03	8.70E-04	
UL04	750106	930511	750106	930511	2.3	-1.97E-03	0.11	0.0749	0.981	-6.30E-03	2.40E-03	
UL11	690916	820330	690916	820330	1.2	1.56E-02	-0.058	0.0901	0.765	-1.30E-03	3.20E-02	
GMI4	731003	830926	731003	830810	2.5	-2.03E-02	0.26	0.332	0.965	-6.60E-02	2.60E-02	
GMI6	690326	930429	690326	930429	3.7	-3.51E-03	0.14	0.211	0.989	-1.10E-02	3.50E-03	
GMO6	720919	840628	720919	820317	1.2	6.50E-02	0.051	0.0877	0.079	5.10E-02	7.90E-02	prob

Table 6-37
Time Trend Analysis for Hydrographic Area Segments: WQXTSS

Segment	Period of record dates		Analysis period Start date	Analysis period End date	Avg obs /yr	Regression on time: slope (per yr)	intercept (@ start)	SEE	residual variance	95% confidence limits on slope: lower	upper	
A1	660115	931118	660115	931118	9.4	-4.29E-01	46	34.4	0.99	-9.10E-01	5.40E-02	poss
A2	690501	931206	690501	931206	9.8	-5.95E-01	56	58.2	0.99	-1.50E+00	3.10E-01	poss
A3	660115	931206	660115	931206	9.7	-1.21E+00	50	37.4	0.94	-1.80E+00	-6.40E-01	prob
A4	710608	931108	710608	931108	8.2	-2.01E-01	40	44.1	1.00	-1.20E+00	8.00E-01	
A5	690501	931108	690501	931108	5.1	-3.09E-01	33	28.8	0.99	-9.10E-01	2.90E-01	
A6	660115	931207	660115	931207	4.7	-1.15E+00	50	18.6	0.79	-1.50E+00	-7.60E-01	prob
A8	751111	931102	751111	931102	3.3	-4.52E-01	41	40	1.00	-2.90E+00	2.00E+00	
A9	791127	931102	791127	931102	5.6	-1.40E+00	40	21.6	0.95	-2.80E+00	1.30E-02	poss
A10	690501	931206	690501	931206	9.4	-4.19E-02	39	73.5	1.00	-1.20E+00	1.10E+00	
A11	690501	931117	690501	931117	10.0	-5.15E-01	42	39.2	0.99	-1.20E+00	2.10E-01	poss
A12	710608	931216	710608	931216	16.0	3.34E-01	26	37.6	1.00	-2.00E-01	8.70E-01	poss
A13	740723	931216	740723	931216	5.7	5.81E-01	24	76.5	1.00	-3.30E+00	4.40E+00	poss
AL1	771014	931208	771014	931208	10.0	-9.83E+00	250	171	0.97	-1.80E+01	-1.30E+00	prob
AL2	730524	931208	730524	931208	14.0	-3.80E+00	130	93.6	0.97	-6.50E+00	-1.10E+00	prob
AR1	690520	930825	690520	930825	6.8	3.69E-01	84	85.9	1.00	-1.40E+00	2.20E+00	poss
AYB	690501	931105	690501	931105	1.6	5.98E-01	49	28.5	0.97	-5.20E-01	1.70E+00	poss
BF1	690915	931208	690915	931208	19.0	-1.47E+00	82	57.7	0.98	-2.50E+00	-4.50E-01	prob
BF2	690915	931208	690915	931208	19.0	-2.53E+00	98	74	0.97	-3.80E+00	-1.20E+00	prob
BF3	660315	931216	660315	931216	20.0	-1.08E+00	56	31	0.94	-1.40E+00	-7.30E-01	prob
C01	700619	931116	700619	931116	9.6	-3.32E+00	90	67.4	0.87	-4.40E+00	-2.20E+00	prob
C02	690918	931109	690918	931109	7.7	-1.48E+00	54	30.1	0.91	-2.20E+00	-8.00E-01	prob
C03	690115	931217	690115	931217	15.0	-1.96E+00	65	50.3	0.92	-2.70E+00	-1.30E+00	prob
C04	660115	931116	660115	931116	6.9	-7.29E-02	31	21.4	1.00	-4.10E-01	2.70E-01	
C05	701013	931217	701013	931217	9.5	-1.46E+00	170	944	1.00	-1.90E+01	1.60E+01	
C06	690115	931026	690115	931026	9.4	1.53E+00	79	498	1.00	-6.60E+00	9.60E+00	poss
C07	690917	931005	690917	931005	16.0	-1.93E+00	61	49.6	0.92	-2.60E+00	-1.30E+00	prob
C08	660115	931206	660115	931206	4.7	-5.78E-01	37	20.2	0.94	-9.70E-01	-1.90E-01	prob

(continued)

Table 6-37
(continued)

Seg-ment	Period of record		Analysis period		Avg	Regression on time				95% confidence limits on slope		
	dates		Start date	End date	obs /yr	slope (per yr)	intercept (@ start)	SEE	residual variance	lower	upper	
C09	660115	931122	660115	931122	21.0	-3.98E-01	67	330	1.00	-3.50E+00	2.70E+00	
C10	690326	931206	690326	931206	17.0	-3.93E-01	31	40.6	1.00	-9.30E-01	1.40E-01	poss
C11	690326	940724	690326	940724	19.0	1.12E+00	90	605	1.00	-6.10E+00	8.30E+00	poss
C12	660115	931208	660115	931208	28.0	-6.31E-01	63	318	1.00	-3.20E+00	1.90E+00	
C13	710903	931217	710903	931217	4.3	-2.47E+00	64	25.5	0.88	-3.80E+00	-1.10E+00	prob
C14	660115	931217	660115	931217	31.0	-9.44E-01	42	26.9	0.91	-1.10E+00	-7.40E-01	prob
C15	660115	931217	660115	931217	25.0	-4.09E+00	120	76.4	0.85	-4.80E+00	-3.30E+00	prob
C16	830608	930817	830608	930817	6.6	-4.91E+00	58	36.8	0.85	-7.70E+00	-2.10E+00	prob
C17	701013	931217	701013	931217	12.0	-6.16E+00	240	1040	1.00	-2.60E+01	1.40E+01	
C18	660115	931206	660115	931206	4.1	-6.64E-01	40	30.4	0.96	-1.30E+00	-3.30E-02	prob
C19	771025	931208	771025	931208	4.8	-3.95E+00	75	48.6	0.92	-6.90E+00	-9.60E-01	prob
C20	700602	930921	700602	930921	12.0	-2.74E+00	75	65.2	0.90	-3.70E+00	-1.80E+00	prob
C21	660115	931217	660115	931217	7.9	-2.96E-01	28	23.3	0.99	-6.40E-01	4.90E-02	poss
C22	720328	931104	720328	931104	4.4	-3.26E-01	30	34	1.00	-1.30E+00	6.60E-01	
C23	781003	931102	781003	931102	4.0	-9.14E-01	44	42.4	1.00	-4.50E+00	2.60E+00	
C24	690326	931122	690326	931122	8.3	-7.86E-01	36	36.3	0.98	-1.50E+00	-1.00E-01	prob
C25	701008	931223	701008	931223	3.2	-1.01E+00	36	17.7	0.91	-1.80E+00	-2.60E-01	prob
CB	690501	931203	690501	931203	11.0	-1.28E+00	62	47	0.95	-2.00E+00	-5.80E-01	prob
CBH	690917	921202	690917	921202	0.8	-1.30E+00	50	27.7	0.88	-3.20E+00	6.10E-01	poss
CBY1	861014	931027	861014	931027	2.6	-7.58E+00	63	40.8	0.83	-1.70E+01	1.40E+00	poss
CBY2	660115	920113	660115	920113	1.0	-1.56E+00	74	44.1	0.93	-4.10E+00	9.70E-01	
CCC1	690917	931217	690917	931217	28.0	5.02E+00	36	296	0.99	1.50E+00	8.60E+00	prob
CCC2	690115	930504	690115	930504	2.6	-1.49E-01	24	12.5	0.99	-5.00E-01	2.00E-01	
CCC3	680326	940910	680326	940910	28.0	-6.74E-01	51	41.2	0.99	-1.10E+00	-2.10E-01	prob
CCC4	690615	931208	690615	931208	3.6	-2.68E-01	29	23.2	0.99	-8.30E-01	3.00E-01	
CCC5	711105	930921	711105	930921	6.3	-7.26E-01	38	41.6	0.99	-1.80E+00	3.20E-01	poss
CCC6	690115	931206	690115	931206	6.8	-4.60E-02	32	34.3	1.00	-7.00E-01	6.10E-01	
CCC7	690326	931217	690326	931217	8.3	2.40E+00	150	1090	1.00	-1.80E+01	2.30E+01	poss

(continued)

Table 6-37
(continued)

Seg-ment	Period of record dates		Analysis period Start date	End date	Avg obs /yr	Regression on time slope (per yr)	intercept (@ start)	SEE	residual variance	95% confidence limits on slope lower	upper	
CCC8	731024	931020	731024	931020	5.9	-2.08E+00	57	34.5	0.89	-3.20E+00	-9.80E-01	prob
CP01	800617	931223	800617	931223	2.4	1.22E+00	32	42	0.99	-3.00E+00	5.40E+00	poss
CP02	660215	931223	680115	931223	13.0	2.49E-01	37	41.5	1.00	-3.20E-01	8.20E-01	poss
CP03	680326	931217	680326	931217	13.0	-1.25E+00	76	54.1	0.98	-2.20E+00	-2.50E-01	prob
CP04	660115	931209	660115	931209	8.3	-9.05E-02	46	73.6	1.00	-1.20E+00	1.10E+00	
CP05	660215	931216	670315	931216	8.3	-1.84E-01	63	57.4	1.00	-1.10E+00	7.20E-01	
CP06	790525	931119	790525	931119	9.3	1.53E-01	69	71.1	1.00	-3.70E+00	4.00E+00	poss
CP07	710609	931216	710609	931216	10.0	-3.23E-01	41	45.3	1.00	-1.10E+00	5.00E-01	
CP08	660315	931119	670215	931119	11.0	-8.92E-01	58	50.8	0.98	-1.60E+00	-2.10E-01	prob
CP09	690501	931223	690501	931223	9.0	5.42E-01	38	50.8	0.99	-2.90E-01	1.40E+00	poss
CP10	660115	940818	660115	940818	13.0	-3.54E-01	44	44	1.00	-8.90E-01	1.90E-01	poss
EF	800404	930921	800404	930921	4.5	-1.38E-01	24	17.2	1.00	-1.40E+00	1.10E+00	
GR1	840808	930512	840808	930512	1.5	-2.99E+01	250	61.1	0.42	-4.70E+01	-1.30E+01	prob
GR2	690915	931116	690915	931116	14.0	-5.75E+00	170	82.4	0.91	-7.70E+00	-3.80E+00	prob
HI1	720919	931109	720919	931109	2.7	-2.43E-02	31	30.3	1.00	-1.00E+00	1.00E+00	
HI2	720919	931216	720919	931216	3.0	-5.77E-02	23	17	1.00	-1.20E+00	1.10E+00	
I1	660315	930405	930405	930405								
I2	660115	931203	660115	931203	3.1	-2.28E+00	96	57	0.87	-3.60E+00	-1.00E+00	prob
I3	660315	930921	660415	930921	5.8	-5.88E-01	59	54.6	1.00	-1.90E+00	7.30E-01	
I4	660115	931206	660115	931206	6.6	-8.43E-01	67	56.4	0.98	-1.70E+00	3.10E-02	poss
I5	710608	931206	710608	931206	9.8	-1.49E-01	39	40.9	1.00	-8.90E-01	6.00E-01	
I6	660115	931216	660115	931216	8.9	-6.49E-01	42	45.2	0.99	-1.50E+00	1.60E-01	poss
I7	660115	930616	660115	930616	13.0	-2.81E-01	29	21.6	0.99	-5.50E-01	-1.10E-02	prob
I8	690501	931123	690501	931123	3.9	-4.26E-01	32	25.5	0.98	-9.80E-01	1.20E-01	poss
I9	690522	931019	690522	931019	9.8	-7.32E-01	32	35.8	0.98	-1.40E+00	-8.50E-02	prob
I10	690615	930707	690615	930707	7.9	-1.93E+00	65	44	0.89	-2.70E+00	-1.10E+00	prob
I11	680828	931217	680828	931217	4.0	-2.25E-01	26	20.7	0.99	-8.00E-01	3.40E-01	
I12	731023	931111	731023	931111	8.1	-1.64E+00	46	25.2	0.90	-2.40E+00	-8.90E-01	prob

(continued)

Table 6-37
(continued)

Seg-ment	Period of record dates		Analysis period Start date	Analysis period End date	Avg obs /yr	Regression on time slope (per yr)	Regression on time intercept (@ start)	Regression on time SEE	Regression on time residual variance	95% confidence limits on slope lower	95% confidence limits on slope upper	
I13	660315	931216	660315	931216	12.0	-9.41E-01	45	20	0.82	-1.20E+00	-7.20E-01	prob
I14	811111	931119	811111	931119	8.8	-2.16E+00	34	15.4	0.84	-3.10E+00	-1.20E+00	prob
I15	680828	931028	680828	931028	6.1	-9.72E-01	46	35.8	0.97	-1.90E+00	-6.70E-02	prob
I16	800620	931118	800620	931118	4.0	-3.55E+00	58	19.9	0.75	-5.30E+00	-1.80E+00	prob
I17	720227	931025	720227	931025	6.1	-1.07E+00	52	29.9	0.95	-1.90E+00	-2.80E-01	prob
I18	660315	930413	660315	930413	3.5	-1.64E+00	57	19.8	0.62	-2.10E+00	-1.20E+00	prob
IH1	690918	930512	690918	930512	5.5	-1.50E-01	30	32.6	1.00	-1.00E+00	7.20E-01	
IH2	820810	820810										
IH3	701014	820810	701014	820810	1.9	1.43E+00	11	11	0.78	2.20E-01	2.60E+00	prob
IH4	791018	840531	791018	840531	1.9	-8.36E+00	70	22.9	0.85	-2.60E+01	9.40E+00	
IH5	690417	930512	690417	930512	6.9	-3.50E-01	32	31	0.99	-1.00E+00	3.40E-01	
IH6	690615	930512	690615	930512	4.7	-2.64E-01	29	20.5	0.99	-7.90E-01	2.60E-01	
IH7	690615	830628	690615	830628	42.0	6.42E+01	-120	289	0.82	5.30E+01	7.50E+01	prob
INL	740723	930809	740723	930809	1.5	-1.58E-01	30	28.8	1.00	-2.70E+00	2.40E+00	
LAC	710608	931109	710608	931109	6.0	7.11E-01	18	23.1	0.96	1.20E-01	1.30E+00	prob
LB	690501	930510	690501	930510	2.1	-1.75E-01	25	12.6	0.98	-5.70E-01	2.20E-01	
LQ1	660115	941203	660115	941203	21.0	-2.33E-01	44	31.6	1.00	-7.10E-01	2.50E-01	
LQ2	720328	941203	720328	941203	7.2	-6.39E-02	35	33.6	1.00	-8.00E-01	6.80E-01	
LS1	820526	931015	820526	931015	4.0	-9.00E-01	67	42.6	1.00	-5.10E+00	3.30E+00	
LS2	690915	931122	690915	931122	9.3	-2.36E+00	110	64.3	0.96	-3.90E+00	-8.00E-01	prob
M1	840924	931217	840924	931217	2.6	-7.14E+00	120	74.3	0.92	-1.80E+01	3.80E+00	poss
M2	790622	931217	790622	931217	4.8	1.93E+00	51	73.1	0.99	-2.90E+00	6.80E+00	poss
MB1	660115	931206	660115	931206	6.3	-6.24E-01	75	63.1	0.99	-1.90E+00	6.10E-01	
MB2	660115	931028	660115	931028	12.0	4.66E-01	56	77.6	1.00	-5.50E-01	1.50E+00	poss
NB1	760914	931207	760914	931207	9.7	-5.09E+00	130	50.4	0.90	-7.40E+00	-2.80E+00	prob
NB2	811112	931116	811112	931116	7.7	-5.90E+00	110	60.6	0.95	-1.10E+01	-8.10E-01	prob
NB3	830621	931207	830621	931207	9.9	-6.13E+00	97	56.8	0.93	-1.10E+01	-1.60E+00	prob
NB4	690326	931207	690326	931207	7.9	-1.53E+02	3400	4270	0.98	-3.00E+02	-2.10E+00	prob

(continued)

Table 6-37
(continued)

Seg- ment	Period of record dates		Analysis period Start date	End date	Avg obs /yr	Regression on time: slope (per yr)	intercept (@ start)	SEE	residual variance	95% confidence limits on slope: lower	upper	
NB5	680115	931117	680115	931117	19.0	1.50E+00	260	2170	1.00	-2.30E+01	2.60E+01	poss
NB6	690326	931117	690326	931117	5.4	1.82E+01	470	3570	1.00	-6.30E+01	9.90E+01	poss
NB7	731015	931207	731015	931207	9.3	-2.90E+00	87	58.2	0.94	-4.50E+00	-1.30E+00	prob
NB8	660115	931116	660115	931116	5.8	-1.28E+00	82	59.4	0.96	-2.20E+00	-3.50E-01	prob
NB9	660115	931207	660115	931207	4.8	-5.98E-01	65	47.8	0.99	-1.50E+00	3.30E-01	
ND2	781110	931005	781110	931005	1.2	-2.03E+00	69	34	0.92	-5.70E+00	1.60E+00	
ND4	850523	931005	850523	931005	0.6	3.78E+00	53	37.1	0.89	-1.60E+01	2.30E+01	poss
NR1	690325	730807	690325	730807	13.0	-4.65E+00	49	29.7	0.96	-1.10E+01	1.80E+00	poss
NR3	701012	830629	701012	830629	2.2	6.66E+02	-2100	2480	0.48	4.10E+02	9.20E+02	prob
NR4	730917	920929	730917	920929	8.7	1.60E-01	110	164	1.00	-5.00E+00	5.30E+00	poss
NR5	701012	760830	701012	760830	6.3	-4.85E+00	95	46.4	0.98	-1.60E+01	6.50E+00	
OS1	711021	930427	711021	930427	3.3	9.90E-01	78	197	1.00	-5.50E+00	7.40E+00	poss
OS3	711021	921123	711021	921123	2.8	-1.05E+01	220	195	0.91	-2.00E+01	-1.50E+00	prob
OS4	850403	931216	850403	931216	5.7	4.10E-02	48	39.5	1.00	-4.10E+00	4.20E+00	poss
OS5	860910	931216	860910	931216	3.9	1.05E+00	29	22.8	0.99	-3.40E+00	5.50E+00	poss
OS6	810514	931020	810514	931020	6.2	-1.69E+01	250	162	0.87	-2.70E+01	-6.90E+00	prob
OS7	660115	931104	660115	931104	6.1	-9.80E-01	91	81.6	0.99	-2.50E+00	5.20E-01	poss
PB1	730918	931209	730918	931209	7.7	-3.72E+00	110	113	0.96	-6.70E+00	-7.80E-01	prob
PB2	660215	931209	660215	931209	6.9	-3.67E-01	42	37.3	1.00	-1.20E+00	4.40E-01	
RB1	701014	931217	701014	931217	4.7	-8.34E-01	35	12.5	0.81	-1.20E+00	-5.10E-01	prob
RB2	790921	931123	790921	931123	6.8	-4.51E-01	25	20.3	1.00	-1.90E+00	9.50E-01	
RB3	660315	931217	660415	931217	6.6	-5.01E-01	30	18.2	0.96	-8.80E-01	-1.20E-01	prob
RB4	771122	931216	771122	931216	5.0	-2.92E-01	27	21.7	1.00	-1.50E+00	9.00E-01	
RB5	731017	931217	731017	931217	10.0	-6.18E-01	32	29.5	0.99	-1.40E+00	1.60E-01	poss
RB6	731017	931006	731017	931006	3.9	3.35E-01	21	39.9	1.00	-1.10E+00	1.70E+00	poss
RB7	660115	931217	660115	931217	4.1	-5.97E-01	32	10	0.77	-8.00E-01	-3.90E-01	prob
RB8	690326	931006	690326	931006	10.0	3.32E+00	73	543	1.00	-7.80E+00	1.40E+01	poss
RB9	660115	931102	660115	931102	7.1	-4.02E-01	29	14	0.94	-6.20E-01	-1.80E-01	prob

(continued)

Table 6-37
(continued)

Segment	Period of record dates		Analysis period Start date	Analysis period End date	Avg obs /yr	Regression on time: slope (per yr)	intercept (@ start)	SEE	residual variance	95% confidence limits on slope: lower	upper	
SC1	660215	931013	670315	931013	6.5	-1.64E+00	83	56.2	0.93	-2.50E+00	-7.50E-01	prob
SC2	660215	931203	660215	931203	14.0	-7.07E-01	57	47.3	0.98	-1.20E+00	-2.00E-01	prob
SC3	660215	931117	660215	931117	17.0	-1.37E-01	45	43.7	1.00	-6.20E-01	3.40E-01	
UL01	690615	931112	690615	931112	2.1	-1.28E+00	44	12.6	0.75	-1.90E+00	-6.60E-01	prob
UL02	670115	931217	670115	931217	5.3	-8.99E-01	39	16.4	0.79	-1.20E+00	-6.10E-01	prob
UL03	660315	931217	660515	931217	11.0	-1.08E+00	42	15.4	0.73	-1.30E+00	-8.80E-01	prob
UL04	750106	930914	750106	930914	4.3	-1.39E+00	43	20.2	0.88	-2.20E+00	-5.40E-01	prob
UL05	760611	931119	760611	931119	6.1	-1.88E+00	40	21.5	0.88	-2.90E+00	-8.80E-01	prob
UL06	660315	931217	660415	931217	8.1	-1.35E+00	48	20.5	0.74	-1.70E+00	-1.00E+00	prob
UL07	660315	931209	660415	931209	5.9	-1.42E+00	46	18.2	0.63	-1.70E+00	-1.10E+00	prob
UL08	790905	931026	790905	931026	6.9	-1.60E+00	30	9.05	0.73	-2.10E+00	-1.10E+00	prob
UL09	780516	930825	780516	930825	8.7	-1.71E+00	35	12.4	0.81	-2.30E+00	-1.10E+00	prob
UL10	660315	931209	660415	931209	5.6	-1.38E+00	49	18.8	0.66	-1.70E+00	-1.10E+00	prob
UL11	690916	930525	690916	930525	1.3	-1.19E+00	38	9.48	0.59	-1.70E+00	-6.40E-01	prob
UL14	871006	880802	871006	880802	2.4							
GMI1	890105	931123	890105	931123	7.4	3.36E-01	14	9.49	0.997	-1.70E+00	2.40E+00	poss
GMI2	871021	931112	871021	931112	23	-2.80E-01	23	15.1	0.999	-1.60E+00	1.00E+00	
GMI3	871021	931112	871021	931112	30	2.25E+00	21	23.1	0.97	3.50E-01	4.10E+00	prob
GMI4	730917	931216	730917	931216	9.4	-9.17E-01	46	36.3	0.978	-1.80E+00	-3.30E-02	prob
GMI5	850225	931122	850225	931122	24	2.54E+00	11	26.6	0.961	8.20E-01	4.30E+00	prob
GMI6	690326	931122	690326	931122	12	-5.87E-01	61	309	1	-5.00E+00	3.80E+00	
GMI7	850212	931202	850212	931202	52	-1.01E+00	25	21.8	0.994	-2.20E+00	1.80E-01	poss
GMI8	850626	931022	850626	931022	20	2.24E-01	31	30.1	1	-2.50E+00	2.90E+00	poss
GMI9	871022	931116	871022	931116	15	1.34E+00	39	30	0.993	-1.90E+00	4.60E+00	poss
GMO2	791106	801028	791106	801028								
GMO4	850317	931122	850317	931122	7.1	-1.17E+00	18	15.5	0.969	-2.80E+00	5.00E-01	poss
GMO5	850212	931216	850212	931216	41	-1.04E+00	18	13.6	0.963	-1.60E+00	-4.90E-01	prob
GMO6	720919	931216	720919	931216	9.7	3.13E-01	8.1	16.4	0.99	-1.10E-01	7.40E-01	poss
GMO7	850212	931202	850212	931202	42	2.20E-01	14	19.7	0.999	-5.90E-01	1.00E+00	poss

Table 6-38
Trend analyses for salinity (WQSAL), upper 1 metre, for hydrographic area segments

Seg-ment	*period of record*		*avg obs/yr*	*slope ppt/yr*	*intcp*	*SEE*	*95% conf on slope lower*	*upper*	*trend*
A1	581123	940329	13	-3.30E-02	17	7.8	-1.00E-01	3.80E-02	
A2	590129	940418	7.7	-5.09E-02	18	7.06	-1.50E-01	4.50E-02	
A3	610926	940317	11	3.19E-02	16	7.29	-4.90E-02	1.10E-01	poss
A4	590602	940317	5.1	-1.26E-01	22	7.59	-2.60E-01	3.20E-03	poss
A5	641130	940317	5.7	3.74E-02	17	6.81	-8.30E-02	1.60E-01	poss
A6	610926	940317	5.8	1.02E-01	17	7.09	-1.70E-02	2.20E-01	poss
A8	590111	940317	3.1	-3.24E-02	20	8.19	-2.50E-01	1.80E-01	
A9	641130	931102	2	-3.20E-02	21	7.94	-3.70E-01	3.10E-01	
A10	590428	940317	7.7	-7.24E-03	19	7.13	-1.10E-01	9.60E-02	
A11	690501	931117	5.9	5.61E-02	22	7.19	-9.20E-02	2.00E-01	poss
A12	700324	940317	13	2.97E-01	18	6.76	1.90E-01	4.10E-01	prob
A13	740618	940317	6.7	6.31E-02	23	7.6	-2.10E-01	3.40E-01	poss
AL1	771014	931110	10	-1.23E+00	52	16.3	-2.00E+00	-5.00E-01	prob
AL2	720928	931208	12	-2.00E-01	41	15.1	-6.50E-01	2.50E-01	
AR1	690520	930825	7.2	2.60E-01	7.9	8.62	7.80E-02	4.40E-01	prob
AYB	690501	910718	1.5	1.08E-01	21	6.02	-2.50E-01	4.70E-01	poss
BF1	680827	931208	16	2.33E-01	33	14.7	-3.30E-02	5.00E-01	poss
BF2	680827	931208	12	4.59E-01	30	13.1	2.00E-01	7.10E-01	prob
BF3	580515	931216	15	-8.36E-02	40	10.5	-1.70E-01	7.50E-03	poss
C01	520217	940330	4.9	-3.13E-01	36	10.5	-4.50E-01	-1.80E-01	prob
C02	520217	940330	7.6	-2.57E-01	37	9.95	-3.70E-01	-1.50E-01	prob
C03	600926	940330	9.5	-1.00E-01	31	9.16	-2.10E-01	1.40E-02	poss
C04	520217	930519	4.8	1.02E-01	24	9.95	-1.10E-01	3.10E-01	poss
C05	520217	930519	3.6	-3.08E-02	27	8.16	-1.80E-01	1.20E-01	
C06	520217	901106	3.8	-9.13E-02	29	7.58	-2.50E-01	6.40E-02	
C07	520324	931005	4.5	2.06E-02	28	6.95	-9.40E-02	1.40E-01	poss
C08	520217	931005	3	-8.09E-02	33	5.75	-1.80E-01	1.70E-02	poss
C09	520324	940330	14	3.48E-02	29	5.58	-1.40E-02	8.30E-02	poss
C10	520324	931026	5.9	1.65E-01	24	6.9	5.80E-02	2.70E-01	prob
C11	520407	940724	9.5	3.74E-01	18	7.06	2.80E-01	4.70E-01	prob
C12	520324	940330	16	2.12E-02	29	6.03	-2.40E-02	6.70E-02	poss
C13	520324	930928	1.2	3.27E-01	18	7.57	1.00E-01	5.50E-01	prob
C14	520324	931122	21	6.66E-02	28	6.73	1.90E-02	1.10E-01	prob
C15	520217	940330	23	1.32E-01	22	10.7	5.60E-02	2.10E-01	prob
C16	520217	920206	0.5	-7.33E-02	29	11.2	-4.30E-01	2.80E-01	
C17	520217	940330	9.8	6.21E-02	26	7.59	-1.00E-02	1.30E-01	poss
C18	520217	930908	2.4	-1.86E-01	34	6.75	-3.20E-01	-4.70E-02	prob
C19	520216	940330	2.8	-1.83E-01	35	5.58	-2.60E-01	-1.00E-01	prob

(continued)

Table 6-38
Trend analyses for salinity (WQSAL), upper 1 metre
(continued)

Seg-ment	*period of record*		*avg obs/yr*	*slope ppt/yr*	*intcp*	*SEE*	*95% conf on slope lower*	*upper*	*trend*
C20	520216	940330	3.8	-1.10E-01	31	7.15	-2.00E-01	-2.20E-02	prob
C21	520216	931208	6	-2.59E-02	31	5.47	-8.80E-02	3.60E-02	
C22	520216	921202	1.3	-1.17E-01	30	5.09	-2.70E-01	3.50E-02	poss
C23	520324	931102	1.1	-1.14E-01	35	4.32	-2.70E-01	4.60E-02	poss
C24	670929	931122	8.5	4.80E-01	23	6.94	3.40E-01	6.20E-01	prob
C25	670929	931223	5	3.30E-01	25	6.75	1.70E-01	4.90E-01	prob
CB	650101	931203	11	-9.00E-03	17	7.5	-1.10E-01	9.40E-02	
CBH	671003	921202	0.52	1.67E-01	22	6.89	-3.70E-01	7.10E-01	poss
CBY1	861014	931027	2.6	2.48E-01	18	9.69	-1.90E+00	2.40E+00	poss
CBY2	650101	920113	1.7	-2.46E-01	28	6.24	-5.40E-01	5.20E-02	poss
CCC1	520216	931217	8.3	3.87E-02	28	9.75	-6.40E-02	1.40E-01	poss
CCC2	520216	930309	2.5	-5.89E-02	30	5.2	-1.60E-01	4.10E-02	
CCC3	520216	950317	8.6	9.18E-03	29	6.13	-5.40E-02	7.30E-02	poss
CCC4	600926	940330	3.2	-7.72E-02	30	5.43	-1.80E-01	2.90E-02	poss
CCC5	520216	930519	2.5	-1.27E-01	33	6.79	-2.30E-01	-2.80E-02	prob
CCC6	520324	931005	3.9	1.29E-01	26	5.5	2.50E-02	2.30E-01	prob
CCC7	520217	930916	7	3.48E-01	18	7.03	2.50E-01	4.50E-01	prob
CCC8	600926	940330	8.5	-2.38E-01	34	9.84	-3.60E-01	-1.10E-01	prob
CP01	800617	931223	2.4	-2.01E-01	19	8.86	-1.10E+00	6.80E-01	
CP02	650101	940329	12	7.07E-02	15	8	-2.50E-02	1.70E-01	poss
CP03	640401	940329	16	7.87E-02	12	8.97	-2.10E-02	1.80E-01	poss
CP04	630805	940329	11	1.32E-02	15	8.55	-8.80E-02	1.10E-01	poss
CP05	641201	940329	9.9	7.34E-02	12	8.82	-4.70E-02	1.90E-01	poss
CP06	641201	930922	3.6	-3.20E-01	23	9.04	-5.00E-01	-1.40E-01	prob
CP07	610926	931108	5.8	4.02E-01	5.8	7.46	2.50E-01	5.60E-01	prob
CP08	660315	930928	8.8	1.55E-01	13	7.73	4.70E-02	2.60E-01	prob
CP09	610926	931223	4.9	2.87E-02	12	6.93	-1.10E-01	1.70E-01	poss
CP10	590216	940818	14	1.73E-01	11	7.51	9.50E-02	2.50E-01	prob
EF	790221	930921	5	2.66E-01	29	4.19	1.20E-02	5.20E-01	prob
GR1	840808	930512	1.5	-3.43E+00	66	17.2	-8.20E+00	1.30E+00	poss
GR2	680827	931116	11	-4.97E-02	38	15.8	-4.20E-01	3.20E-01	
HI1	670930	931109	2.3	5.22E-01	19	5.95	3.20E-01	7.20E-01	prob
HI2	670930	931216	3.5	4.35E-01	20	5.31	2.50E-01	6.20E-01	prob
I1	660415	950406	1.7	-5.97E-02	15	6.69	-3.90E-01	2.70E-01	
I2	660215	931203	3.4	5.30E-02	19	7.16	-1.10E-01	2.10E-01	poss
I3	660415	930921	6	1.46E-01	15	7.3	-2.00E-02	3.10E-01	poss
I4	581124	940317	5.7	-7.23E-02	20	7.55	-1.70E-01	2.30E-02	poss
I5	650101	930719	4.3	-3.84E-01	24	6.48	-5.40E-01	-2.30E-01	prob

(continued)

Table 6-38
Trend analyses for salinity (WQSAL), upper 1 metre
(continued)

Seg-ment	*period of record*		*avg obs/yr*	*slope ppt/yr*	*intcp*	*SEE*	*95% conf on slope lower*	*upper*	*trend*
I6	581124	940317	9.2	-1.10E-01	24	9.15	-2.10E-01	-6.70E-03	prob
I7	650101	930428	12	-5.44E-02	24	6.86	-1.50E-01	4.30E-02	
I8	650101	931005	2.9	-5.30E-02	29	6.11	-1.80E-01	7.60E-02	
I9	580715	931019	6.3	3.14E-01	23	7.45	1.80E-01	4.50E-01	prob
I10	690615	930707	4.9	2.69E-02	31	8.46	-1.60E-01	2.10E-01	poss
I11	580415	931217	3.5	5.04E-02	33	7.24	-6.70E-02	1.70E-01	poss
I12	580715	931111	4	1.52E-02	34	8.37	-2.00E-01	2.30E-01	poss
I13	580615	931209	13	-1.53E-01	41	9.39	-2.30E-01	-7.80E-02	prob
I14	580715	931119	3.1	-1.96E-02	39	7.35	-2.80E-01	2.40E-01	
I15	680827	931028	5.7	9.98E-02	35	8.84	-1.60E-01	3.60E-01	poss
I16	580715	931118	1.8	-1.91E-01	43	8.61	-5.20E-01	1.40E-01	
I17	580715	931025	4.4	2.45E-01	29	10	2.40E-02	4.70E-01	prob
I18	580515	921020	4.9	-5.78E-02	40	9.9	-2.10E-01	9.50E-02	
IH1	670118	930512	6.1	1.63E-01	26	7.98	-1.20E-02	3.40E-01	poss
IH2	820810	820810	4						
IH3	701014	820810	2.9	1.08E+00	21	4.59	7.30E-01	1.40E+00	prob
IH4	670118	840531	1.7	-3.99E-01	34	10.4	-1.00E+00	2.10E-01	poss
IH5	670118	930512	7.6	2.19E-01	25	7.39	7.60E-02	3.60E-01	prob
IH6	690615	930916	5.9	2.33E-01	26	5.57	1.10E-01	3.60E-01	prob
IH7	600926	850731	11	-5.63E-01	34	9.56	-8.00E-01	-3.30E-01	prob
INL	700324	930809	2	2.84E-01	25	5.67	-1.20E-02	5.80E-01	poss
LAC	660115	931109	3.6	1.61E-01	23	6.9	-2.60E-02	3.50E-01	poss
LB	690501	930510	2.5	-1.67E-01	23	6.41	-3.60E-01	3.00E-02	poss
LQ1	630115	950317	8.2	8.21E-05	29	5.56	-7.50E-02	7.50E-02	poss
LQ2	520217	950317	4.2	-2.15E-02	30	5.06	-9.70E-02	5.40E-02	
LS1	820311	931015	6.6	-2.14E+00	56	16.8	-3.40E+00	-8.90E-01	prob
LS2	680827	931122	10	3.34E-01	30	15.3	-6.90E-05	6.70E-01	poss
M1	840924	931217	2.6	-7.67E-01	16	8.67	-2.00E+00	5.10E-01	
M2	640609	940329	3.4	-2.83E-01	22	11.3	-7.20E-01	1.60E-01	
MB1	581123	940428	8.3	-8.29E-02	20	8.39	-1.80E-01	1.50E-02	poss
MB2	581123	940428	9.5	-2.10E-01	24	8.16	-2.90E-01	-1.30E-01	prob
NB1	760914	931207	12	-1.04E-01	26	11.1	-5.70E-01	3.60E-01	
NB2	590713	940506	4.3	-9.10E-02	27	11.1	-3.00E-01	1.20E-01	
NB3	590713	931118	3	3.68E-02	24	10.2	-1.80E-01	2.60E-01	poss
NB4	671206	931117	14	6.40E-01	14	8.55	4.20E-01	8.60E-01	prob
NB5	671206	931117	29	6.22E-01	17	8.33	5.40E-01	7.00E-01	prob
NB6	590713	940506	13	3.06E-01	17	8.23	2.30E-01	3.80E-01	prob
NB7	590713	940506	16	5.44E-02	24	8.19	-1.60E-02	1.20E-01	poss

(continued)

Table 6-38
Trend analyses for salinity (WQSAL), upper 1 metre
(continued)

Seg-ment	*period of record*		*avg obs/yr*	*slope ppt/yr*	*intcp*	*SEE*	*95% conf on slope lower*	*upper*	*trend*
NB8	590713	940506	9	-1.77E-02	27	9.36	-1.10E-01	7.60E-02	
NB9	590713	940506	7.6	1.49E-01	23	8.38	4.70E-02	2.50E-01	prob
ND2	771112	931005	1.9	1.17E-01	19	10.9	-7.90E-01	1.00E+00	poss
ND4	780805	960129	19	-9.49E-02	23	9.01	-5.80E-01	3.90E-01	
NR1	670927	780907	7.3	1.81E-01	0.2	1.6	-2.80E-02	3.90E-01	poss
NR3	680530	830629	3.2	-1.20E-01	7	9.17	-7.70E-01	5.30E-01	
NR4	730917	920929	9.3	3.37E-01	7.5	10.1	3.20E-02	6.40E-01	prob
NR5	680530	760830	12	-1.93E-01	11	10.2	-1.70E+00	1.30E+00	
OS1	711021	930427	3.4	-3.27E-01	7.4	6.39	-5.30E-01	-1.30E-01	prob
OS3	711021	921123	2.6	9.69E-01	18	10.9	4.60E-01	1.50E+00	prob
OS4	850403	931216	5.7	-1.42E+00	40	10.4	-2.50E+00	-3.40E-01	prob
OS5	860910	931216	3.9	-1.25E+00	41	7.29	-2.70E+00	1.80E-01	poss
OS6	780724	931020	5.8	-4.53E-01	36	9.6	-9.40E-01	3.70E-02	poss
OS7	630115	931104	7	-1.00E-01	32	8.6	-2.20E-01	1.60E-02	poss
PB1	640401	931209	5.5	3.67E-01	5.3	8.47	1.60E-01	5.70E-01	prob
PB2	660315	931209	7.2	3.37E-01	8.1	8.58	1.60E-01	5.20E-01	prob
RB1	660115	931217	5.2	2.93E-01	17	7.16	1.10E-01	4.80E-01	prob
RB2	740618	931019	5.1	2.28E-01	22	7.99	-1.20E-01	5.80E-01	poss
RB3	660415	931217	6.8	1.54E-01	23	7.14	1.50E-02	2.90E-01	prob
RB4	690917	931216	6.3	1.88E-01	23	6.06	2.30E-02	3.50E-01	prob
RB5	700324	931217	12	2.89E-01	23	5.58	1.80E-01	4.00E-01	prob
RB6	721017	931006	5.7	2.78E-01	23	6.16	1.30E-01	4.20E-01	prob
RB7	630115	931217	5.3	-1.33E-01	31	5.04	-2.10E-01	-5.90E-02	prob
RB8	670930	931006	11	3.93E-01	20	5.93	2.70E-01	5.10E-01	prob
RB9	630115	931102	7.1	3.30E-02	28	6.49	-5.60E-02	1.20E-01	poss
SC1	660315	931013	6.8	3.04E-01	7.4	7.44	1.90E-01	4.20E-01	prob
SC2	660315	940418	16	2.36E-01	9.6	9.14	1.50E-01	3.20E-01	prob
SC3	660315	931117	20	2.87E-01	12	6.89	2.10E-01	3.60E-01	prob
UL01	690615	931112	2.8	-1.53E-01	36	5.76	-3.80E-01	7.60E-02	poss
UL02	670115	931217	6.7	3.02E-02	33	6.77	-8.80E-02	1.50E-01	poss
UL03	580415	931217	9.5	-8.29E-02	38	8.18	-1.70E-01	-6.90E-04	prob
UL04	750106	930914	4.6	-1.23E-01	34	6.59	-3.80E-01	1.30E-01	
UL05	580715	931119	3	6.33E-02	34	8.18	-1.90E-01	3.20E-01	poss
UL06	580615	931216	6.6	-3.50E-02	38	8.56	-1.30E-01	6.30E-02	
UL07	580615	931209	7	-1.37E-01	39	9.21	-2.50E-01	-2.30E-02	prob
UL08	771107	931026	6.1	2.02E-01	35	7.9	-1.70E-01	5.80E-01	poss
UL09	780516	930825	6.8	3.25E-02	36	7.24	-3.10E-01	3.70E-01	poss
UL10	580615	931119	5.7	-1.83E-01	42	8.9	-3.00E-01	-7.10E-02	prob

(continued)

Table 6-38
Trend analyses for salinity (WQSAL), upper 1 metre
(continued)

Seg-ment	*period of record*		*avg obs/yr*	*slope ppt/yr*	*intcp*	*SEE*	*95% conf on slope lower*	*upper*	*trend*
UL11	680827	921209	1.2	-3.04E-02	36	7.22	-4.40E-01	3.80E-01	
UL14	580515	880802	1.2	2.44E-01	35	10	-2.60E-01	7.50E-01	poss
GMI1	890105	931123	7.4	-6.54E-01	34	2.92	-1.30E+00	-2.50E-02	prob
GMI2	871021	931112	23	-5.02E-01	34	3.66	-8.20E-01	-1.80E-01	prob
GMI3	871021	931112	30	-1.48E-01	33	3.07	-4.00E-01	1.00E-01	
GMI4	730917	931122	8.8	2.73E-01	28	4.49	1.60E-01	3.80E-01	prob
GMI5	860818	931122	21	-3.48E-01	34	4.03	-7.00E-01	-4.20E-04	prob
GMI6	671208	930730	8.3	1.95E-01	27	5.21	1.10E-01	2.80E-01	prob
GMI7	850212	930503	42	-5.62E-01	35	3.75	-8.50E-01	-2.70E-01	prob
GMI8	650101	931022	6.3	1.60E-02	31	5.2	-8.90E-02	1.20E-01	poss
GMI9	871022	931116	15	-1.08E+00	34	3.92	-1.50E+00	-6.50E-01	prob
GMO2	791106	801028	2						
GMO4	850416	931122	1.2	5.23E-02	30	3.4	-1.10E+00	1.20E+00	poss
GMO5	850212	920817	6.3	2.34E-01	31	3.01	-1.80E-01	6.50E-01	poss
GMO6	720919	931025	1.7	1.72E-01	28	3.96	-4.90E-02	3.90E-01	poss
GMO7	850212	930503	9.1	6.25E-01	29	3.04	3.20E-01	9.30E-01	prob

Summary by component bay
Fraction (percent) of segments with data exhibiting indicated trend

component bay	*prob <0*	*poss <0*	*none*	*poss >0*	*prob >0*	*mean prob<0*	*mean prob>0*
Aransas Bay	0	7.7	53.8	23.1	15.4		4.17E-02
Copano Bay	11.1	0	0	55.6	33.3	-3.56E-02	8.11E-02
St Charles	0	0	0	0	100		2.62E-01
Mesquite	25	25	25	25	0	-5.25E-02	
Redfish	12.5	0	0	25	62.5	-1.66E-02	1.63E-01
Corpus Christi	25	20	20	15	20	-5.25E-02	4.66E-02
CCSC (bay)	20	20	0	20	40	-2.54E-02	9.54E-02
Inner Harbor	14.3	14.3	0	14.3	42.9	-8.04E-02	2.19E-01
Nueces Bay	0	0	40	20	40		2.52E-01
Aransas Pass	0	0	0	75	25		1.31E-01
Causeway N	0	0	0	0	100		3.75E-01
Causeway S	0	25	25	50	0		
Laguna (King)	30.8	0	23.1	46.2	0	-4.28E-02	
Laguna (Baffin)	0	0	66.7	0	33.3		4.08E-02
Baffin Bay	0	20	40	20	20		9.18E-02
GOM inlet	33.3	0	0	33.3	33.3	-1.52E-01	1.37E-01

Table 6-39
Trend analyses for water temperature (WQTEMP), upper 1 metre, for hydrographic area segments

Seg-ment	*period of record*		*avg obs/yr*	*slope °C/yr*	*intcp*	*SEE*	*95% conf on slope lower*	*upper*	*trend*
A1	581123	940329	13	-1.44E-01	24	5.7	-2.00E-01	-9.30E-02	prob
A2	590129	940418	7.8	-1.52E-01	25	6.3	-2.40E-01	-6.60E-02	prob
A3	610926	940317	11	-1.34E-01	24	5.9	-2.00E-01	-6.90E-02	prob
A4	590602	940317	5.2	-1.80E-01	25	6.1	-2.80E-01	-7.80E-02	prob
A5	641130	940317	5.9	-1.90E-01	25	5.5	-2.90E-01	-9.40E-02	prob
A6	610926	940317	5.9	-1.26E-01	24	6.2	-2.30E-01	-2.30E-02	prob
A8	590111	940317	3.1	-9.14E-02	24	6.1	-2.40E-01	6.10E-02	
A9	641130	931102	2.1	6.86E-02	21	6.5	-1.80E-01	3.10E-01	poss
A10	590428	940317	7.9	-1.27E-01	24	6.1	-2.10E-01	-4.00E-02	prob
A11	690501	931117	5.9	1.08E-01	22	6.2	-1.80E-02	2.30E-01	poss
A12	700324	940317	13	-1.90E-02	22	6.3	-1.20E-01	8.20E-02	
A13	740618	940317	6.7	-2.60E-01	26	6.5	-4.90E-01	-2.70E-02	prob
AL1	771014	931110	10	-2.26E-01	28	5.3	-4.60E-01	1.40E-02	poss
AL2	720928	931208	12	-7.58E-02	26	5.3	-2.30E-01	7.90E-02	
AR1	690520	930825	7.3	1.10E-01	22	6.1	-1.70E-02	2.40E-01	poss
AYB	690501	910718	1.5	2.33E-01	23	5.9	-1.20E-01	5.90E-01	poss
BF1	680827	931208	16	-1.53E-01	26	5.6	-2.60E-01	-5.10E-02	prob
BF2	680827	931208	12	-5.02E-02	24	6.1	-1.70E-01	6.80E-02	
BF3	630114	931216	16	-4.49E-03	24	5.9	-6.30E-02	5.40E-02	
C01	600926	940330	6	-1.78E-01	26	5.6	-2.60E-01	-9.90E-02	prob
C02	600926	940330	9.5	-1.73E-01	26	5.5	-2.40E-01	-1.10E-01	prob
C03	600926	940330	9.6	-1.51E-01	25	5.9	-2.20E-01	-7.70E-02	prob
C04	630115	930519	6.5	-9.18E-02	25	5.5	-2.10E-01	2.80E-02	poss
C05	670930	930519	5.3	-3.30E-01	26	5.5	-5.00E-01	-1.60E-01	prob
C06	670929	901106	5.8	-1.48E-01	24	5.6	-3.20E-01	2.90E-02	poss
C07	690917	931005	7.3	-1.65E-01	24	6.0	-3.00E-01	-3.10E-02	prob
C08	630115	931005	3.9	-1.07E-01	24	6.2	-2.30E-01	1.90E-02	poss
C09	600926	940330	17	-1.02E-02	24	5.8	-6.30E-02	4.30E-02	
C10	670929	931026	9.2	-1.34E-01	24	5.9	-2.40E-01	-2.50E-02	prob
C11	670929	940724	15	-1.06E-01	24	5.7	-1.90E-01	-2.50E-02	prob
C12	600926	940330	21	-6.20E-02	24	6.1	-1.10E-01	-1.40E-02	prob
C13	670929	930928	1.9	-4.73E-02	25	5.7	-2.60E-01	1.70E-01	
C14	630115	931122	27	-2.87E-03	23	6.0	-4.70E-02	4.20E-02	
C15	600926	940330	29	-1.33E-01	25	5.9	-1.80E-01	-8.90E-02	prob
C16	670930	920206	0.57	-2.86E-01	25	5.5	-7.00E-01	1.30E-01	poss
C17	600926	940330	12	-1.15E-01	26	5.7	-1.90E-01	-4.10E-02	prob
C18	630115	930908	2.7	-8.89E-02	24	6.5	-2.70E-01	9.60E-02	
C19	600926	940330	3.2	-1.56E-01	26	5.8	-2.80E-01	-2.90E-02	prob

(continued)

Table 6-39
Trend analyses for water temperature (WQTEMP), upper 1 metre
(continued)

Seg-ment	*period of record*		*avg obs/yr*	*slope ℃/yr*	*intcp*	*SEE*	*95% conf on slope lower*	*upper*	*trend*
C20	600926	940330	4.2	-2.55E-01	27	5.2	-3.40E-01	-1.70E-01	prob
C21	630115	931208	7.6	1.62E-02	23	5.9	-6.50E-02	9.70E-02	poss
C22	720328	921202	2.4	-1.42E-01	22	6.3	-4.70E-01	1.90E-01	
C23	781003	931102	2.9	-3.53E-03	23	5.6	-5.60E-01	5.50E-01	
C24	670929	931122	8.5	3.63E-02	23	6.0	-8.30E-02	1.60E-01	poss
C25	670929	931223	5.1	-1.03E-02	24	6.0	-1.50E-01	1.30E-01	
CB	650101	931203	11	3.96E-02	22	5.8	-4.10E-02	1.20E-01	poss
CBH	671003	921202	0.56	-2.03E-01	29	3.5	-4.70E-01	6.00E-02	poss
CBY1	861014	931027	2.6	-2.32E-01	21	6.1	-1.60E+00	1.10E+00	
CBY2	650101	920113	1.7	-8.79E-02	22	7.2	-4.30E-01	2.60E-01	
CCC1	520114	931217	7.6	-3.71E-02	24	5.6	-1.20E-01	4.20E-02	
CCC2	690115	930309	3.8	-1.71E-02	23	6.4	-2.10E-01	1.70E-01	
CCC3	600926	950317	10	-8.01E-02	25	5.9	-1.50E-01	-7.00E-03	prob
CCC4	600926	940330	3.3	-2.06E-01	26	5.4	-3.10E-01	-1.00E-01	prob
CCC5	520114	930519	2.1	-9.25E-02	24	6.3	-2.80E-01	9.50E-02	
CCC6	690115	931005	6.3	7.43E-03	22	6.3	-1.30E-01	1.50E-01	poss
CCC7	670930	930916	11	-2.05E-01	25	5.8	-3.00E-01	-1.10E-01	prob
CCC8	600926	940330	8.2	-1.87E-01	26	5.7	-2.60E-01	-1.10E-01	prob
CP01	800617	931223	2.4	-6.26E-01	29	6.3	-1.30E+00	3.70E-03	poss
CP02	650101	940329	12	-3.40E-02	23	6.1	-1.10E-01	4.00E-02	
CP03	641201	940329	16	-6.64E-02	22	6.1	-1.30E-01	1.90E-03	poss
CP04	630805	940329	11	-1.10E-01	24	5.9	-1.80E-01	-4.00E-02	prob
CP05	641201	940329	9.8	-1.24E-01	23	6.1	-2.10E-01	-3.90E-02	prob
CP06	641201	930922	3.6	6.46E-02	22	6.3	-6.30E-02	1.90E-01	poss
CP07	610926	931108	5.9	9.93E-03	22	6.1	-1.20E-01	1.40E-01	poss
CP08	660315	930928	8.8	-8.96E-03	23	5.9	-9.20E-02	7.40E-02	
CP09	610926	931223	5	-9.76E-02	24	6.0	-2.10E-01	1.90E-02	poss
CP10	590216	940818	14	-6.60E-02	23	6.2	-1.30E-01	-8.80E-04	prob
EF	790221	930921	5	1.40E-01	23	6.1	-2.30E-01	5.10E-01	poss
GR1	840808	930512	1.5	-2.18E-01	29	2.1	-7.90E-01	3.60E-01	
GR2	680827	931116	11	-6.58E-02	27	5.5	-1.90E-01	6.30E-02	
HI1	670930	931109	2.3	1.21E-02	23	6.0	-1.90E-01	2.10E-01	poss
HI2	670930	931216	3.5	-2.03E-02	23	6.3	-2.40E-01	2.00E-01	
I1	660415	930405	0.11	-8.00E-02	25	0.3	-3.80E-01	2.20E-01	poss
I2	660215	931203	3.4	4.35E-02	23	5.9	-8.70E-02	1.70E-01	poss
I3	660415	930921	6	8.95E-02	22	6.0	-4.80E-02	2.30E-01	poss
I4	581124	940317	5.7	-3.17E-02	22	6.4	-1.10E-01	4.80E-02	
I5	650101	930719	4.3	-5.47E-02	22	6.6	-2.10E-01	1.00E-01	

(continued)

Table 6-39
Trend analyses for water temperature (WQTEMP), upper 1 metre
(continued)

Seg-ment	*period of record*		*avg obs/yr*	*slope °C/yr*	*intcp*	*SEE*	*95% conf on slope lower*	*upper*	*trend*
I6	581124	940317	9.1	-8.30E-02	23	6.1	-1.50E-01	-1.40E-02	prob
I7	650101	930428	12	-6.32E-02	23	6.3	-1.50E-01	2.70E-02	poss
I8	650101	931005	2.8	1.23E-01	22	6.1	-6.20E-03	2.50E-01	poss
I9	670929	931019	8.3	-3.72E-02	23	6.1	-1.50E-01	7.60E-02	
I10	690615	930707	4.9	-4.68E-02	25	6.2	-1.80E-01	8.80E-02	
I11	680828	931217	4.3	1.96E-02	24	5.9	-1.60E-01	2.00E-01	poss
I12	731023	931111	6.7	1.15E-01	22	5.4	-5.00E-02	2.80E-01	poss
I13	630114	931209	13	5.43E-03	23	6.4	-5.20E-02	6.30E-02	poss
I14	781109	931119	7.1	2.51E-01	22	6.2	-6.30E-02	5.60E-01	poss
I15	680827	931028	5.6	6.25E-03	24	6.1	-1.70E-01	1.80E-01	poss
I16	790822	931118	4.3	-2.20E-01	27	6.2	-6.20E-01	1.80E-01	
I17	720227	931025	6.8	-5.37E-03	24	5.7	-1.50E-01	1.40E-01	
I18	630114	921020	4	1.07E-01	22	6.1	-1.40E-02	2.30E-01	poss
IH1	670118	930512	5.7	1.12E-01	23	5.8	-2.40E-02	2.50E-01	poss
IH2	820810	820810	3						
IH3	701014	820810	2.6	4.33E-01	23	4.3	5.50E-02	8.10E-01	prob
IH4	670118	840531	1.4	4.87E-01	21	5.2	1.30E-01	8.40E-01	prob
IH5	670118	930512	7	-4.16E-03	24	5.9	-1.30E-01	1.20E-01	
IH6	690615	930916	5.5	8.69E-02	23	5.7	-4.50E-02	2.20E-01	poss
IH7	600926	850731	10	5.00E-02	23	5.7	-9.60E-02	2.00E-01	poss
INL	700324	930809	2	8.89E-02	22	6.4	-2.50E-01	4.20E-01	poss
LAC	660115	931109	3.2	4.22E-02	21	6.1	-1.40E-01	2.20E-01	poss
LB	690501	930510	2.5	-5.40E-02	23	6.5	-2.50E-01	1.50E-01	
LQ1	630115	950317	8.2	-2.53E-02	24	5.9	-1.10E-01	5.50E-02	
LQ2	720126	950317	7.5	1.12E-02	23	5.9	-1.20E-01	1.40E-01	poss
LS1	820311	931015	6.6	-3.79E-01	27	5.2	-7.70E-01	7.40E-03	poss
LS2	680827	931122	10	-8.42E-02	26	5.7	-2.10E-01	4.00E-02	poss
M1	840924	931217	2.6	3.05E-01	25	5.0	-4.40E-01	1.00E+00	poss
M2	640519	940329	3.5	-1.46E-01	26	5.6	-3.20E-01	2.40E-02	poss
MB1	581123	940428	8.4	-2.98E-02	22	6.6	-1.10E-01	4.70E-02	
MB2	581123	940428	9.9	-1.25E-02	22	6.4	-7.70E-02	5.20E-02	
NB1	760914	931207	12	-2.65E-01	26	5.4	-4.90E-01	-3.80E-02	prob
NB2	590713	940506	4.2	-1.14E-01	26	5.6	-2.20E-01	-5.60E-03	prob
NB3	590713	931118	4.3	-1.28E-02	24	6.0	-1.30E-01	1.00E-01	
NB4	671206	931117	13	-3.88E-02	23	5.4	-1.80E-01	1.00E-01	
NB5	671206	931117	29	-7.45E-02	24	5.6	-1.30E-01	-2.20E-02	prob
NB6	590713	940506	14	2.06E-01	21	6.1	1.50E-01	2.60E-01	prob
NB7	590713	940506	17	7.56E-02	23	6.3	2.30E-02	1.30E-01	prob

(continued)

Table 6-39
Trend analyses for water temperature (WQTEMP), upper 1 metre
(continued)

Seg-ment	*period of record*		*avg obs/yr*	*slope °C/yr*	*intcp*	*SEE*	*95% conf on slope lower*	*upper*	*trend*
NB8	590713	940506	8.9	-1.11E-01	25	5.8	-1.70E-01	-5.20E-02	prob
NB9	590713	940506	7.6	-1.28E-01	26	6.0	-2.00E-01	-5.60E-02	prob
ND2	771112	931005	1.9	5.47E-01	20	4.3	1.90E-01	9.00E-01	prob
ND4	780805	960129	19	-8.12E-02	24	6.0	-4.00E-01	2.40E-01	
NR1	671205	730807	14	3.78E-01	23	6.1	-6.30E-01	1.40E+00	poss
NR3	680530	830629	3.2	-1.14E-01	26	3.7	-3.70E-01	1.50E-01	
NR4	730917	920929	9	6.94E-02	23	6.2	-1.20E-01	2.60E-01	poss
NR5	680530	760830	12	-4.93E-01	27	5.3	-1.30E+00	2.80E-01	
OS1	711021	930427	3.5	2.40E-02	23	6.2	-1.80E-01	2.20E-01	poss
OS3	720115	921123	2.8	6.88E-02	24	7.0	-2.50E-01	3.90E-01	poss
OS4	850403	931216	5.7	-2.76E-01	26	6.6	-9.70E-01	4.10E-01	
OS5	860910	931216	3.9	1.06E-01	24	6.6	-1.20E+00	1.40E+00	poss
OS6	780724	931020	5.6	-9.92E-02	26	6.2	-4.30E-01	2.30E-01	
OS7	630115	931104	7	4.68E-02	24	6.1	-3.60E-02	1.30E-01	poss
PB1	700323	931209	6.9	6.17E-02	22	5.6	-7.90E-02	2.00E-01	poss
PB2	660315	931209	7.2	1.10E-02	23	5.8	-1.10E-01	1.30E-01	poss
RB1	660115	931217	5.3	1.22E-02	24	5.9	-1.30E-01	1.60E-01	poss
RB2	700324	931019	4.2	8.46E-02	24	5.5	-1.40E-01	3.10E-01	poss
RB3	660415	931217	6.8	2.10E-04	24	5.7	-1.10E-01	1.10E-01	poss
RB4	690917	931216	6.5	-3.68E-02	25	5.9	-1.90E-01	1.10E-01	
RB5	700324	931217	12	1.93E-02	24	5.7	-9.00E-02	1.30E-01	poss
RB6	721017	931006	5.7	1.33E-01	21	6.6	-2.10E-02	2.90E-01	poss
RB7	630115	931217	5.3	2.81E-03	24	5.7	-8.00E-02	8.60E-02	poss
RB8	670930	931006	11	-7.38E-02	24	6.0	-1.90E-01	4.70E-02	
RB9	630115	931102	7.1	-1.14E-02	24	6.4	-9.90E-02	7.60E-02	
SC1	660315	931013	6.7	7.32E-02	23	5.7	-1.60E-02	1.60E-01	poss
SC2	660315	940418	16	-8.10E-02	24	6.3	-1.40E-01	-1.90E-02	prob
SC3	680115	931117	21	1.04E-01	22	6.0	3.70E-02	1.70E-01	prob
UL01	690615	931112	2.8	-2.03E-01	28	5.9	-4.40E-01	3.00E-02	poss
UL02	670115	931217	6.7	1.35E-01	23	5.5	3.90E-02	2.30E-01	prob
UL03	630114	931217	10	5.91E-02	22	6.3	-1.20E-02	1.30E-01	poss
UL04	750106	930914	4.4	-3.44E-02	24	5.8	-2.70E-01	2.00E-01	
UL05	760611	931119	6	2.66E-01	23	6.2	1.50E-02	5.20E-01	prob
UL06	630114	931216	6.9	8.24E-02	22	6.1	4.50E-03	1.60E-01	prob
UL07	630315	931209	7.5	4.44E-02	24	6.2	-3.80E-02	1.30E-01	poss
UL08	771107	931026	6.1	1.70E-01	24	5.1	-7.10E-02	4.10E-01	poss
UL09	780516	930825	6.8	1.51E-01	23	5.6	-1.10E-01	4.10E-01	poss
UL10	630114	931119	6	4.64E-02	23	6.4	-4.30E-02	1.40E-01	poss

(continued)

Table 6-39
Trend analyses for water temperature (WQTEMP), upper 1 metre
(continued)

Seg-ment	*period of record*		*avg obs/yr*	*slope °C/yr*	*intcp*	*SEE*	*95% conf on slope lower*	*upper*	*trend*
UL11	680827	921209	1.2	-2.60E-01	28	5.7	-5.80E-01	6.40E-02	poss
UL14	871006	880802	2.4						
GMI1	890105	931123	7.4	-9.80E-01	27	3.7	-1.80E+00	-1.80E-01	prob
GMI2	871021	931112	23	4.95E-01	23	4.3	1.20E-01	8.70E-01	prob
GMI3	871021	931112	30	5.46E-01	23	4.7	1.60E-01	9.30E-01	prob
GMI4	730917	931122	8.8	1.91E-01	22	6.0	4.20E-02	3.40E-01	prob
GMI5	860818	931122	21	5.57E-01	22	5.0	1.20E-01	9.90E-01	prob
GMI6	690326	930730	8.8	1.47E-01	22	5.4	5.40E-02	2.40E-01	prob
GMI7	850212	930503	42	1.20E+00	18	5.5	7.70E-01	1.60E+00	prob
GMI8	650101	931022	6.3	1.30E-01	22	5.9	1.20E-02	2.50E-01	prob
GMI9	871022	931116	15	5.78E-01	23	5.2	8.50E-03	1.10E+00	prob
GMO2	791106	801028	2						
GMO4	850416	931122	1.2	-9.17E-01	24	3.8	-2.20E+00	3.30E-01	poss
GMO5	850212	920817	6.3	5.92E-01	17	4.9	-9.00E-02	1.30E+00	poss
GMO6	720919	931025	1.7	-2.44E-01	24	4.5	-4.80E-01	-3.80E-03	prob
GMO7	850212	930503	9.1	3.06E-01	19	5.1	-2.00E-01	8.20E-01	poss

Summary by component bay
Fraction (percent) of segments with data exhibiting indicated trend

component bay	*prob <0*	*poss <0*	*none*	*poss >0*	*prob >0*	*mean prob<0*	*mean prob>0*
Aransas Bay	38.5	0.0	30.8	30.8	0.0	-5.67E-02	
Copano Bay	33.3	22.2	22.2	22.2	0.0	-3.33E-02	
St Charles	50.0	0.0	0.0	0.0	50.0	-4.05E-02	5.20E-02
Mesquite	0.0	0.0	50.0	50.0	0.0		
Redfish	0.0	0.0	37.5	62.5	0.0		
Corpus Christi	50.0	20.0	25.0	5.0	0.0	-8.82E-02	
CCSC (bay)	60.0	0.0	20.0	20.0	0.0	-9.82E-02	
Inner Harbor	0.0	0.0	14.3	42.9	28.6		1.31E-01
Nueces Bay	60.0	0.0	40.0	0.0	0.0	-5.99E-02	
Aransas Pass	0.0	0.0	25.0	75.0	0.0		
Causeway N	0.0	0.0	66.7	33.3	0.0		
Causeway S	0.0	25.0	50.0	0.0	25.0		3.38E-02
Laguna (King)	0.0	7.7	0.0	76.9	15.4		2.68E-02
Laguna (Baffin)	0.0	0.0	66.7	33.3	0.0		
Baffin Bay	20.0	0.0	80.0	0.0	0.0	-3.06E-02	
GOM inlet	16.7	0.0	0.0	33.3	50.0	-4.07E-02	3.17E-01

Table 6-40
Trend analyses for dissolved oxygen (WQDO), upper 1 metre, for hydrographic area segments

Seg-ment	*period of record*		*avg obs/yr*	*slope ppm/yr*	*intcp*	*SEE*	*95% conf on slope lower*	*upper*	*trend*
A1	581123	940329	13	-3.30E-02	17	7.8	-1.00E-01	3.80E-02	
A2	590129	940418	7.7	-5.09E-02	18	7.06	-1.50E-01	4.50E-02	
A1	690501	931118	7.8	1.80E-02	8.3	1.58	-1.20E-02	4.80E-02	poss
A2	690501	931014	7.9	7.32E-02	8.2	2.17	2.90E-02	1.20E-01	prob
A3	690501	930825	8.1	-2.70E-03	8.8	1.58	-3.60E-02	3.00E-02	
A4	700323	930928	4.3	-6.75E-02	9.3	1.63	-1.20E-01	-1.50E-02	prob
A5	690501	930511	4.8	3.13E-02	8.5	2.04	-1.70E-02	8.00E-02	poss
A6	700324	931117	4.5	2.05E-04	9.2	2.86	-1.00E-01	1.00E-01	poss
A8	700324	931102	2.4	3.62E-02	8.5	3.00	-1.10E-01	1.80E-01	poss
A9	700324	931102	2.4	-2.43E-02	9.7	2.10	-1.20E-01	7.60E-02	
A10	690501	931117	6.2	3.69E-02	8.1	1.91	7.30E-05	7.40E-02	prob
A11	690501	931117	5.2	4.97E-02	7.5	1.76	1.20E-02	8.70E-02	prob
A12	700324	931109	10	6.64E-03	8.6	2.24	-3.60E-02	4.90E-02	poss
A13	740723	931005	4.5	-2.22E-02	9.0	2.16	-1.20E-01	7.30E-02	
AL1	771014	931110	10	1.36E-01	5.8	1.96	4.80E-02	2.20E-01	prob
AL2	720928	931208	12	8.30E-02	6.0	1.89	2.70E-02	1.40E-01	prob
AR1	690520	930825	7.2	-1.18E-03	8.6	2.04	-4.40E-02	4.10E-02	
AYB	690501	910718	1.5	-7.20E-02	7.4	1.20	-1.40E-01	-9.10E-05	prob
BF1	680827	931208	12	-5.26E-03	7.3	1.87	-4.40E-02	3.30E-02	
BF2	680827	931208	9.8	2.74E-03	7.0	2.02	-3.90E-02	4.50E-02	poss
BF3	680827	931216	15	-1.92E-02	7.3	2.20	-5.50E-02	1.70E-02	
C01	520217	931109	3	6.45E-03	8.0	1.56	-2.30E-02	3.60E-02	poss
C02	610426	931109	5.7	-7.82E-03	7.9	1.54	-3.40E-02	1.80E-02	
C03	610426	930908	6.9	3.21E-02	7.5	2.00	-4.00E-03	6.80E-02	poss
C04	520406	930519	3.1	4.24E-02	6.2	2.10	-1.80E-02	1.00E-01	poss
C05	520217	930519	3.3	3.03E-02	7.0	1.63	-5.90E-03	6.70E-02	poss
C06	520217	901106	3.4	-4.96E-04	7.2	1.77	-4.90E-02	4.80E-02	
C07	690917	931005	6.7	-7.21E-02	8.5	1.47	-1.10E-01	-3.90E-02	prob
C08	690917	931005	1.7	-8.66E-02	8.9	1.52	-1.50E-01	-2.60E-02	prob
C09	700610	931122	18	-1.96E-02	8.3	1.71	-4.20E-02	2.90E-03	poss
C10	520324	931026	5	-2.09E-02	8.3	1.52	-4.90E-02	7.20E-03	poss
C11	520629	940724	8.7	-1.79E-02	8.2	1.53	-3.90E-02	3.60E-03	poss
C12	700506	931208	21	-9.65E-03	8.0	1.75	-2.90E-02	1.00E-02	
C13	670929	930928	1.8	7.79E-03	7.9	2.00	-6.80E-02	8.40E-02	poss
C14	520324	931122	14	1.73E-02	7.4	1.79	-8.50E-04	3.50E-02	poss
C15	520112	931104	18	2.38E-02	7.0	1.53	9.40E-03	3.80E-02	prob
C16	520217	920206	0.4	3.10E-02	6.4	1.53	-3.00E-02	9.20E-02	poss
C17	520112	931207	8	2.46E-02	7.3	1.85	-1.40E-03	5.10E-02	poss

(continued)

Table 6-40
Trend analyses for dissolved oxygen (WQDO), upper 1 metre
(continued)

Seg-ment	*period of record*		*avg obs/yr*	*slope ppm/yr*	*intcp*	*SEE*	*95% conf on slope lower*	*upper*	*trend*
C18	520217	930908	0.7	2.67E-02	6.1	1.65	-1.90E-02	7.30E-02	poss
C19	520216	931208	1.2	3.30E-02	7.4	1.92	-1.80E-02	8.40E-02	poss
C20	520216	930317	2.3	-1.51E-03	8.1	1.33	-3.70E-02	3.40E-02	
C21	520114	931208	3.6	1.00E-02	7.7	1.75	-2.10E-02	4.10E-02	poss
C22	520405	921202	1.2	-4.33E-02	8.8	1.79	-1.20E-01	3.80E-02	
C23	781003	931102	2.7	-1.11E-01	9.3	1.73	-2.80E-01	6.10E-02	
C24	670929	931122	8.1	-3.23E-02	8.2	2.24	-7.80E-02	1.30E-02	poss
C25	670929	931223	4.9	4.72E-02	6.9	2.38	-1.40E-02	1.10E-01	poss
CB	690501	931203	12	5.14E-02	8.1	2.18	1.90E-02	8.40E-02	prob
CBH	671003	921202	0.52	3.79E-02	7.7	1.84	-1.10E-01	1.80E-01	poss
CBY1	861014	931027	2.4	-2.61E-01	10.0	1.81	-6.70E-01	1.50E-01	poss
CBY2	841003	920113	0.55	2.89E-01	8.1	2.05	-1.60E+00	2.20E+00	poss
CCC1	520216	931217	7	-1.87E-02	8.3	1.73	-4.40E-02	6.30E-03	poss
CCC2	520112	930309	1.2	1.54E-02	7.2	1.64	-4.10E-02	7.20E-02	poss
CCC3	520114	950317	6.7	3.65E-03	7.9	1.76	-2.00E-02	2.80E-02	poss
CCC4	520114	931208	1.6	1.25E-01	3.4	1.75	8.10E-02	1.70E-01	prob
CCC5	520216	930519	1.6	8.59E-04	7.5	1.40	-3.70E-02	3.80E-02	poss
CCC6	690717	931005	4.7	1.20E-02	7.2	1.53	-2.80E-02	5.30E-02	poss
CCC7	520406	930916	6.2	5.33E-02	6.7	1.66	2.70E-02	7.90E-02	prob
CCC8	610426	931020	5.7	-1.61E-02	7.9	1.63	-4.60E-02	1.40E-02	
CP01	800617	931223	2.4	5.04E-02	8.3	2.09	-1.60E-01	2.60E-01	poss
CP02	690501	931223	11	3.33E-02	8.1	2.04	-6.90E-04	6.70E-02	poss
CP03	700323	931217	13	3.76E-02	8.2	2.08	4.40E-03	7.10E-02	prob
CP04	690501	931209	8.1	2.44E-02	8.4	1.72	-8.20E-03	5.70E-02	poss
CP05	690501	930928	7.7	9.18E-03	8.2	1.76	-3.10E-02	5.00E-02	poss
CP06	700323	930922	2.6	-1.24E-01	11.0	1.82	-2.10E-01	-3.90E-02	prob
CP07	700323	931108	7.5	-4.47E-03	8.5	1.82	-4.50E-02	3.60E-02	
CP08	690501	930928	8.3	-1.35E-02	8.8	2.14	-5.10E-02	2.40E-02	
CP09	690501	931223	6.2	5.83E-02	8.1	1.72	2.30E-02	9.40E-02	prob
CP10	690521	940818	13	2.06E-02	8.3	1.81	-7.80E-03	4.90E-02	poss
EF	790221	930921	5	-1.35E-01	9.5	2.14	-2.70E-01	-5.50E-03	prob
GR1	840808	930512	1.5	4.68E-01	4.7	2.50	-2.20E-01	1.20E+00	poss
GR2	680827	931116	11	5.45E-02	6.2	2.20	3.20E-03	1.10E-01	prob
HI1	670930	931109	1.6	-6.61E-02	9.4	2.09	-1.40E-01	1.00E-02	poss
HI2	670930	931216	3.5	-6.05E-02	9.4	1.84	-1.30E-01	4.20E-03	poss
I1	870825	930405	0.36						
I2	690501	931203	3.7	5.31E-02	7.3	1.53	1.80E-02	8.80E-02	prob
I3	710608	930921	7	2.07E-02	8.5	2.40	-3.60E-02	7.80E-02	poss

(continued)

Table 6-40
Trend analyses for dissolved oxygen (WQDO), upper 1 metre
(continued)

Seg-ment	*period of record*		*avg obs/yr*	*slope ppm/yr*	*intcp*	*SEE*	*95% conf on slope lower*	*upper*	*trend*
I4	690501	931203	3.7	3.15E-02	7.7	1.45	-3.40E-03	6.60E-02	poss
I5	710608	930719	3.2	-5.91E-02	9.2	1.69	-1.20E-01	5.50E-03	poss
I6	691209	930720	6.3	-2.31E-02	8.5	1.74	-6.50E-02	1.90E-02	
I7	690501	930428	10	8.55E-02	7.3	1.93	5.30E-02	1.20E-01	prob
I8	690501	931005	2.6	7.31E-02	7.2	2.08	2.00E-02	1.30E-01	prob
I9	670929	931019	7.5	-9.32E-04	7.1	2.17	-4.30E-02	4.10E-02	
I10	690615	930707	3	6.93E-03	7.6	2.01	-5.50E-02	6.80E-02	poss
I11	680828	931217	4.3	7.25E-02	6.4	2.15	5.80E-03	1.40E-01	prob
I12	731023	931111	6.7	1.00E-02	7.6	1.80	-4.50E-02	6.50E-02	poss
I13	680828	931209	6.8	4.37E-02	6.8	4.93	-5.40E-02	1.40E-01	poss
I14	781109	931119	7.1	1.15E-02	6.7	2.38	-1.10E-01	1.30E-01	poss
I15	680827	931028	4.5	-1.54E-02	6.9	1.92	-7.80E-02	4.80E-02	
I16	790822	931118	4.3	2.13E-02	6.5	1.86	-1.00E-01	1.40E-01	poss
I17	720227	931025	5.2	-3.25E-02	7.6	1.45	-7.40E-02	8.80E-03	poss
I18	690715	921020	2.3	2.63E-02	6.5	1.87	-3.80E-02	9.10E-02	poss
IH1	670118	930512	5.5	-5.92E-02	8.0	2.61	-1.20E-01	3.30E-03	poss
IH2	720424	820810	1.3	-1.46E-01	7.0	1.43	-3.60E-01	7.30E-02	poss
IH3	701014	820810	3.6	-2.27E-01	7.7	2.12	-3.90E-01	-6.50E-02	prob
IH4	670118	840531	1.5	-7.63E-02	7.6	2.09	-2.10E-01	6.10E-02	
IH5	670118	930512	7.1	-1.42E-02	7.5	2.57	-6.80E-02	4.00E-02	
IH6	690615	930916	5.5	5.24E-02	6.0	2.35	-1.60E-03	1.10E-01	poss
IH7	520511	840213	7	-2.08E-03	6.7	1.68	-5.00E-02	4.60E-02	
INL	700324	930809	1.8	-3.53E-02	8.6	1.51	-1.20E-01	4.90E-02	
LAC	710608	931109	3.8	4.96E-02	7.6	1.86	-7.00E-03	1.10E-01	poss
LB	690501	930510	2.5	1.81E-01	7.1	1.97	1.20E-01	2.40E-01	prob
LQ1	700619	950317	6.7	6.72E-03	7.9	1.46	-2.10E-02	3.40E-02	poss
LQ2	520217	950317	3.7	1.70E-02	7.4	1.94	-2.00E-02	5.40E-02	poss
LS1	820311	930526	2	2.17E-01	5.8	2.43	-7.30E-02	5.10E-01	poss
LS2	680827	931122	9	2.58E-02	6.9	2.12	-2.40E-02	7.50E-02	poss
M1	840924	931217	2.6	-2.91E-01	9.2	1.80	-5.60E-01	-2.60E-02	prob
M2	790622	931217	5	-6.21E-02	8.9	2.10	-2.10E-01	8.30E-02	
MB1	691202	931117	7.9	-3.52E-02	9.3	2.01	-8.80E-02	1.70E-02	poss
MB2	690501	931028	8.9	3.20E-02	8.0	1.89	2.80E-03	6.10E-02	prob
NB1	760914	931207	11	4.74E-03	7.8	2.23	-8.90E-02	9.90E-02	poss
NB2	670118	931116	3.4	5.29E-03	7.7	2.03	-6.00E-02	7.00E-02	poss
NB3	710620	931118	5.7	-4.94E-02	8.3	1.77	-1.10E-01	1.20E-02	poss
NB4	671206	931117	12	2.42E-02	7.5	1.63	-1.90E-02	6.70E-02	poss
NB5	671206	931117	25	3.49E-02	7.4	1.70	1.70E-02	5.30E-02	prob

(continued)

Table 6-40
Trend analyses for dissolved oxygen (WQDO), upper 1 metre
(continued)

Segment	*period of record*		*avg obs/yr*	*slope ppm/yr*	*intcp*	*SEE*	*95% conf on slope lower*	*upper*	*trend*
NB6	671206	931117	15	-6.40E-02	8.2	1.45	-7.90E-02	-4.90E-02	prob
NB7	670118	931207	15	-5.43E-02	8.3	1.89	-7.90E-02	-3.00E-02	prob
NB8	671002	931116	3.7	-1.80E-02	7.8	1.49	-6.70E-02	3.10E-02	
NB9	720405	931207	5.5	4.65E-02	7.5	2.04	-3.20E-02	1.30E-01	poss
ND2	771112	931005	1.9	9.98E-03	8.0	1.37	-1.00E-01	1.20E-01	poss
ND4	780805	960129	19	-5.76E-02	8.5	1.86	-1.60E-01	4.30E-02	
NR1	671205	730807	14	4.35E-01	6.4	1.65	1.60E-01	7.10E-01	prob
NR3	680530	830629	3.2	-1.14E-01	8.7	2.37	-2.80E-01	5.50E-02	poss
NR4	730917	920929	8.9	-2.00E-02	9.7	2.89	-1.10E-01	7.00E-02	
NR5	680530	760830	12	1.27E-01	7.3	2.19	-1.90E-01	4.50E-01	poss
OS1	711021	930427	3.5	-8.87E-02	10.0	4.95	-2.50E-01	7.10E-02	
OS3	711021	921123	2.8	-7.32E-02	8.4	2.22	-1.80E-01	2.90E-02	poss
OS4	850403	931216	5.7	1.40E-01	7.6	2.37	-1.10E-01	3.90E-01	poss
OS5	860910	931216	3.9	-1.91E-01	9.3	1.74	-5.30E-01	1.50E-01	
OS6	780724	931020	5.5	-1.64E-02	7.8	2.03	-1.20E-01	9.10E-02	
OS7	730917	931104	7.7	2.05E-02	8.0	2.02	-3.40E-02	7.50E-02	poss
PB1	730918	931209	7.8	-3.30E-03	8.4	1.76	-4.90E-02	4.20E-02	
PB2	770513	931209	11	-1.18E-01	10.0	2.56	-2.10E-01	-3.10E-02	prob
RB1	700324	931217	5.8	-1.01E-02	9.3	2.52	-7.60E-02	5.60E-02	
RB2	700324	931019	4	-4.26E-02	9.9	3.21	-1.80E-01	9.90E-02	
RB3	670930	931217	6.9	5.57E-02	7.7	2.17	8.60E-03	1.00E-01	prob
RB4	690917	931216	6	2.77E-02	8.2	5.23	-1.10E-01	1.70E-01	poss
RB5	700324	931217	12	2.08E-02	8.2	1.95	-1.80E-02	5.90E-02	poss
RB6	721017	931006	5.7	1.32E-02	8.2	1.83	-2.90E-02	5.60E-02	poss
RB7	761110	931217	5.6	3.27E-02	8.0	2.17	-6.50E-02	1.30E-01	poss
RB8	670930	931006	10	-3.09E-02	8.2	1.53	-6.20E-02	9.90E-05	poss
RB9	670930	931102	5.3	5.24E-02	7.6	2.25	-1.40E-03	1.10E-01	poss
SC1	690501	931013	6.7	7.04E-02	7.2	1.60	4.30E-02	9.80E-02	prob
SC2	690501	931203	13	9.82E-02	7.2	2.28	6.80E-02	1.30E-01	prob
SC3	690501	931117	21	8.50E-02	7.6	2.39	5.80E-02	1.10E-01	prob
UL01	690615	931112	2.8	7.04E-02	6.6	1.99	-8.60E-03	1.50E-01	poss
UL02	690615	931217	6.2	9.27E-02	6.3	2.13	4.20E-02	1.40E-01	prob
UL03	680828	931217	8.9	-8.34E-02	7.8	2.38	-1.30E-01	-4.00E-02	prob
UL04	750106	930914	4.3	3.40E-03	7.9	1.59	-6.20E-02	6.90E-02	poss
UL05	760611	931119	6	1.83E-02	7.7	2.17	-7.00E-02	1.10E-01	poss
UL06	690715	931216	6.1	-5.96E-02	7.2	2.20	-1.10E-01	-7.80E-03	prob
UL07	690715	931209	5.5	3.83E-02	7.0	1.67	2.40E-03	7.40E-02	prob
UL08	771107	931026	6.1	-5.73E-02	7.1	2.17	-1.60E-01	4.60E-02	
UL09	780516	930825	6.8	8.70E-02	6.2	1.61	1.10E-02	1.60E-01	prob

(continued)

Table 6-40
Trend analyses for dissolved oxygen (WQDO), upper 1 metre
(continued)

Seg-ment	*period of record*		*avg obs/yr*	*slope ppm/yr*	*intcp*	*SEE*	*95% conf on slope lower*	*upper*	*trend*
UL10	690415	931119	4.8	1.27E-02	6.9	1.56	-2.60E-02	5.10E-02	poss
UL11	680827	921209	1.2	-7.35E-02	7.5	2.19	-2.00E-01	5.00E-02	
UL14	871006	880802	2.4						
GMI1	890105	931123	7.4	4.95E-01	5.0	0.92	3.00E-01	6.90E-01	prob
GMI2	871021	931112	23	-9.78E-03	6.4	1.09	-1.10E-01	8.60E-02	
GMI3	871021	931112	30	-1.17E-01	6.7	1.05	-2.00E-01	-3.10E-02	prob
GMI4	730917	931122	8.8	-1.11E-01	8.4	1.46	-1.50E-01	-7.50E-02	prob
GMI5	860818	931122	21	-1.32E-01	7.0	1.16	-2.30E-01	-3.10E-02	prob
GMI6	690326	930730	8.7	-1.68E-03	7.1	1.36	-2.50E-02	2.20E-02	
GMI7	850212	930503	42	-2.93E-01	8.6	1.40	-4.00E-01	-1.80E-01	prob
GMI8	850626	931022	20	-1.88E-01	8.2	1.45	-3.20E-01	-5.80E-02	prob
GMI9	871022	931116	15	-1.05E-01	8.1	2.16	-3.40E-01	1.30E-01	
GMO2	791106	801028	2						
GMO4	850416	931122	1.2	-2.69E-01	8.9	1.12	-6.40E-01	1.00E-01	poss
GMO5	850212	920817	6.3	1.49E-01	7.7	2.28	-1.70E-01	4.60E-01	poss
GMO6	720919	931025	1.7	3.01E-02	7.4	1.11	-2.90E-02	9.00E-02	poss
GMO7	850212	930503	9.1	-9.37E-02	8.6	1.51	-2.40E-01	5.60E-02	

Summary by component bay
Fraction (percent) of segments with data exhibiting indicated trend

component bay	*prob <0*	*poss <0*	*none*	*poss >0*	*prob >0*	*mean prob<0*	*mean prob>0*
Aransas Bay	7.7	7.7	23.1	38.5	23.1	-5.19E-03	1.23E-02
Copano Bay	11.1	0.0	22.2	44.4	22.2	-1.38E-02	1.07E-02
St Charles	0.0	0.0	0.0	0.0	100.0		9.16E-02
Mesquite	25.0	25.0	0.0	0.0	50.0	-1.80E-02	2.09E-02
Redfish	0.0	12.5	12.5	62.5	12.5		6.96E-03
Corpus Christi	10.0	10.0	25.0	55.0	0.0	-7.94E-03	
CCSC (bay)	0.0	0.0	0.0	60.0	40.0		3.57E-02
Inner Harbor	14.3	28.6	42.9	14.3	0.0	-3.24E-02	
Nueces Bay	0.0	20.0	20.0	40.0	20.0		6.98E-03
Aransas Pass	0.0	50.0	25.0	25.0	0.0		
Causeway N	0.0	33.3	33.3	33.3	0.0		
Causeway S	0.0	0.0	0.0	75.0	25.0		2.32E-02
Laguna (King)	15.4	0.0	23.1	38.5	23.1	-1.10E-02	1.52E-02
Laguna (Baffin)	0.0	33.3	0.0	66.7	0.0		
Baffin Bay	0.0	0.0	40.0	20.0	40.0		2.75E-02
GOM inlet	33.3	0.0	33.3	33.3	0.0	-7.08E-02	

Table 6-41
Trend analyses for dissolved oxygen deficit (WQDODEF), upper 1 metre, for hydrographic area segments

Seg-ment	*period of record*		*avg obs/yr*	*slope ppm/yr*	*intcp*	*SEE*	*95% conf on slope lower*	*upper*	*trend*
A1	581123	940329	13	-3.30E-02	17	7.8	-1.00E-01	3.80E-02	
A2	590129	940418	7.7	-5.09E-02	18	7.06	-1.50E-01	4.50E-02	
A1	690501	931118	7.5	-3.30E-02	-0.1	1.53	-6.30E-02	-2.90E-03	prob
A2	690501	931014	7.9	-6.99E-02	-0.1	1.93	-1.10E-01	-3.00E-02	prob
A3	690501	930825	7.8	-2.14E-02	-0.5	1.34	-5.00E-02	7.10E-03	poss
A4	710608	930928	4.4	5.27E-02	-1.0	1.23	1.10E-02	9.40E-02	prob
A5	690501	930511	4.7	-4.43E-02	-0.5	1.88	-9.00E-02	1.10E-03	poss
A6	741119	931117	5.5	-5.75E-02	-0.7	2.79	-1.70E-01	5.30E-02	
A8	741119	931102	2.9	-1.12E-01	-0.1	2.89	-2.70E-01	4.90E-02	poss
A9	741119	931102	2.8	1.21E-02	-1.5	1.97	-9.90E-02	1.20E-01	poss
A10	690501	931117	6	-5.04E-02	-0.1	1.64	-8.30E-02	-1.80E-02	prob
A11	690501	931117	5.2	-6.18E-02	0.2	1.56	-9.50E-02	-2.90E-02	prob
A12	710608	931109	11	-4.49E-02	-0.5	2.08	-8.50E-02	-5.10E-03	prob
A13	740723	931005	4.5	6.95E-03	-1.5	2.08	-8.50E-02	9.90E-02	poss
AL1	771014	931110	10	-5.31E-02	-0.2	1.77	-1.30E-01	2.60E-02	poss
AL2	720928	931208	12	-6.50E-02	0.4	1.68	-1.10E-01	-1.50E-02	prob
AR1	690520	930825	7	-2.62E-02	-0.1	1.89	-6.70E-02	1.40E-02	
AYB	690501	910718	1.5	3.43E-02	0.3	0.77	-1.20E-02	8.10E-02	poss
BF1	680827	931208	12	-3.43E-03	-0.2	1.67	-3.80E-02	3.10E-02	
BF2	680827	931208	9.8	-2.31E-02	0.2	1.99	-6.50E-02	1.80E-02	
BF3	680827	931216	15	1.44E-02	-0.5	2.09	-2.00E-02	4.90E-02	poss
C01	700619	931109	4.4	3.75E-02	-1.1	1.28	5.80E-03	6.90E-02	prob
C02	670930	931109	6	1.60E-02	-0.6	1.38	-1.50E-02	4.70E-02	poss
C03	670930	930908	7.6	-3.36E-02	-0.3	1.95	-7.30E-02	5.70E-03	poss
C04	670930	930519	5	-3.53E-02	0.4	2.18	-1.00E-01	3.20E-02	
C05	670930	930519	5.1	1.12E-02	-0.4	1.37	-3.10E-02	5.40E-02	poss
C06	670929	901106	5.6	6.40E-03	0.2	1.60	-4.50E-02	5.80E-02	poss
C07	690917	931005	6.5	7.25E-02	-1.0	1.23	4.40E-02	1.00E-01	prob
C08	690917	931005	1.5	9.44E-02	-1.6	1.70	2.20E-02	1.70E-01	prob
C09	700610	931122	18	-7.85E-03	-0.8	1.68	-3.00E-02	1.50E-02	
C10	670929	931026	7.8	2.80E-02	-0.6	1.24	4.10E-03	5.20E-02	prob
C11	670929	940724	14	1.48E-02	-0.5	1.26	-3.20E-03	3.30E-02	poss
C12	700506	931208	21	-8.19E-03	-0.5	1.67	-2.70E-02	1.10E-02	
C13	670929	930928	1.7	-3.66E-02	-0.2	1.85	-1.10E-01	3.50E-02	
C14	670929	931122	23	-3.48E-02	-0.2	1.70	-5.20E-02	-1.70E-02	prob
C15	671002	931104	27	-4.01E-02	0.3	1.22	-5.30E-02	-2.70E-02	prob
C16	670930	920206	0.53	-1.07E-01	2.2	1.44	-2.20E-01	3.60E-03	poss
C17	670930	931207	12	-4.67E-02	0.0	1.83	-7.60E-02	-1.70E-02	prob

(continued)

Table 6-41
Trend analyses for dissolved oxygen deficit (WQDODEF), upper 1 metre
(continued)

Seg-ment	*period of record*		*avg obs/yr*	*slope ppm/yr*	*intcp*	*SEE*	*95% conf on slope lower*	*upper*	*trend*
C18	670930	930908	0.81	-2.22E-02	0.8	1.58	-1.10E-01	6.70E-02	
C19	741016	931208	2.4	-6.99E-02	-0.5	2.03	-1.90E-01	4.70E-02	
C20	700610	930317	3.9	4.27E-02	-0.7	1.17	5.70E-03	8.00E-02	prob
C21	711105	931208	6.5	-3.69E-02	-0.3	1.63	-7.20E-02	-1.50E-03	prob
C22	720328	921202	2.3	7.99E-02	-0.5	1.53	-1.90E-03	1.60E-01	poss
C23	781003	931102	2.7	9.38E-02	-1.8	1.83	-8.90E-02	2.80E-01	poss
C24	670929	931122	8	6.77E-03	-0.7	2.27	-4.00E-02	5.30E-02	poss
C25	670929	931223	4.9	-5.85E-02	0.5	2.29	-1.20E-01	6.30E-04	poss
CB	690501	931203	12	-6.05E-02	-0.1	1.90	-8.90E-02	-3.20E-02	prob
CBH	671003	921202	0.52	-1.93E-02	-0.9	1.55	-1.40E-01	1.00E-01	
CBY1	861014	931027	2.4	2.55E-01	-1.7	1.44	-6.90E-02	5.80E-01	poss
CBY2	841003	920113	0.55	4.43E-02	-1.4	1.77	-1.60E+00	1.70E+00	poss
CCC1	670930	931217	11	1.94E-02	-0.6	1.66	-5.70E-03	4.40E-02	poss
CCC2	720321	930309	2.1	-2.70E-02	0.0	1.60	-1.10E-01	6.10E-02	
CCC3	670929	950317	10	-1.41E-02	-0.5	1.74	-4.00E-02	1.20E-02	
CCC4	690615	931208	2.7	-1.40E-01	2.0	1.56	-1.80E-01	-9.70E-02	prob
CCC5	711105	930519	2.8	4.49E-02	-0.5	1.25	-2.40E-03	9.20E-02	poss
CCC6	690717	931005	4.6	-2.19E-02	0.3	1.25	-5.60E-02	1.20E-02	
CCC7	670930	930916	9.6	-4.86E-02	-0.1	1.34	-7.20E-02	-2.60E-02	prob
CCC8	710506	931020	7.2	1.34E-02	-0.2	1.22	-1.70E-02	4.40E-02	poss
CP01	800617	931223	2.4	6.42E-02	-1.4	1.74	-1.10E-01	2.40E-01	poss
CP02	690501	931223	11	-4.34E-02	0.0	2.05	-7.80E-02	-9.00E-03	prob
CP03	710609	931217	13	-7.19E-02	0.4	1.75	-1.00E-01	-4.40E-02	prob
CP04	690501	931209	8	-4.66E-02	-0.2	1.66	-7.90E-02	-1.50E-02	prob
CP05	690501	930928	7.7	-2.86E-02	0.2	1.28	-5.80E-02	1.10E-03	poss
CP06	741119	930922	3	4.77E-02	-1.2	2.00	-6.40E-02	1.60E-01	poss
CP07	710609	931108	7.9	-1.56E-02	-0.2	1.44	-4.80E-02	1.70E-02	
CP08	690501	930928	8.3	5.93E-03	-0.8	2.00	-2.90E-02	4.10E-02	poss
CP09	690501	931223	6.2	-4.70E-02	0.0	1.49	-7.80E-02	-1.60E-02	prob
CP10	690521	940818	13	-4.25E-02	0.0	1.56	-6.70E-02	-1.80E-02	prob
EF	790221	930921	5	1.00E-01	-2.2	2.22	-3.50E-02	2.40E-01	poss
GR1	840808	930512	1.5	-2.90E-01	0.2	1.96	-8.30E-01	2.50E-01	
GR2	680827	931116	11	-4.32E-02	0.3	2.09	-9.20E-02	5.50E-03	poss
HI1	670930	931109	1.6	4.30E-02	-1.7	1.73	-2.00E-02	1.10E-01	poss
HI2	670930	931216	3.5	4.40E-02	-1.7	1.95	-2.50E-02	1.10E-01	poss
I1	930405	930405	1						
I2	690501	931203	3.7	-5.97E-02	0.4	1.43	-9.20E-02	-2.70E-02	prob
I3	710608	930921	7	-4.91E-02	-0.4	2.09	-9.90E-02	6.30E-04	poss

(continued)

Table 6-41
Trend analyses for dissolved oxygen deficit (WQDODEF), upper 1 metre
(continued)

Seg-ment	*period of record*		*avg obs/yr*	*slope ppm/yr*	*intcp*	*SEE*	*95% conf on slope lower*	*upper*	*trend*
I4	690501	931203	3.6	-5.73E-02	0.3	1.42	-9.20E-02	-2.30E-02	prob
I5	710608	930719	3.2	7.30E-02	-1.3	1.54	1.40E-02	1.30E-01	prob
I6	691209	930720	6.1	-2.33E-03	-0.3	1.44	-3.90E-02	3.40E-02	
I7	690501	930428	9.8	-8.26E-02	0.3	1.75	-1.10E-01	-5.30E-02	prob
I8	690501	931005	2.6	-8.91E-02	0.3	1.86	-1.40E-01	-4.10E-02	prob
I9	670929	931019	7.3	1.67E-03	0.2	2.11	-4.10E-02	4.40E-02	poss
I10	690615	930707	2.9	-2.00E-03	-0.8	1.91	-6.10E-02	5.70E-02	
I11	680828	931217	4.3	-8.10E-02	0.7	2.14	-1.50E-01	-1.50E-02	prob
I12	731023	931111	6.7	-3.48E-02	-0.3	1.68	-8.60E-02	1.60E-02	poss
I13	680828	931209	6.7	-3.34E-02	-0.1	4.91	-1.30E-01	6.40E-02	
I14	781109	931119	7.1	-5.87E-02	0.5	2.58	-1.90E-01	7.20E-02	
I15	680827	931028	4.5	4.01E-03	0.1	1.85	-5.70E-02	6.50E-02	poss
I16	790822	931118	4.3	-5.95E-03	0.0	2.07	-1.40E-01	1.30E-01	
I17	720227	931025	5.1	4.67E-03	-0.4	1.13	-2.80E-02	3.70E-02	poss
I18	690715	921020	2.3	-3.27E-02	0.3	2.01	-1.00E-01	3.60E-02	
IH1	680530	930512	5.5	4.05E-02	-0.5	2.35	-2.00E-02	1.00E-01	poss
IH2	820810	820810	3						
IH3	701014	820810	2.6	1.90E-01	-0.8	2.11	6.40E-03	3.70E-01	prob
IH4	741016	840531	1.6	-1.41E-01	1.2	1.69	-5.40E-01	2.50E-01	
IH5	680530	930512	6.7	-1.22E-02	0.1	2.39	-6.60E-02	4.20E-02	
IH6	690615	930916	5.4	-7.82E-02	1.5	1.97	-1.20E-01	-3.20E-02	prob
IH7	680530	840213	12	-6.89E-03	0.8	1.52	-6.00E-02	4.70E-02	
INL	740723	930809	2.2	-1.88E-02	-0.5	1.22	-9.50E-02	5.70E-02	
LAC	710608	931109	3.8	-5.45E-02	0.1	1.56	-1.00E-01	-7.20E-03	prob
LB	690501	930510	2.5	-1.64E-01	0.5	1.77	-2.20E-01	-1.10E-01	prob
LQ1	700619	950317	6.6	-1.44E-02	-0.5	1.46	-4.20E-02	1.30E-02	
LQ2	720126	950317	6.4	-1.39E-02	-0.4	1.76	-5.80E-02	3.00E-02	
LS1	820311	930526	2	-2.27E-01	0.6	1.89	-4.50E-01	-2.30E-03	prob
LS2	680827	931122	9	-4.38E-02	0.2	1.98	-9.00E-02	2.30E-03	poss
M1	840924	931217	2.6	2.80E-01	-1.5	1.58	4.80E-02	5.10E-01	prob
M2	790622	931217	5	8.89E-02	-1.4	1.92	-4.40E-02	2.20E-01	poss
MB1	730822	931117	9.1	7.70E-03	-0.8	1.57	-3.60E-02	5.10E-02	poss
MB2	690501	931028	8.8	-3.22E-02	-0.2	1.55	-5.70E-02	-7.70E-03	prob
NB1	760914	931207	10	4.03E-02	-0.6	2.41	-6.20E-02	1.40E-01	poss
NB2	741016	931116	4.2	-5.20E-02	0.3	2.11	-1.80E-01	7.20E-02	
NB3	710720	931118	3.7	2.29E-03	-0.1	1.83	-8.00E-02	8.50E-02	poss
NB4	671206	931117	11	-4.23E-02	0.5	1.45	-8.00E-02	-4.20E-03	prob
NB5	671206	931117	25	-5.12E-02	0.5	1.45	-6.70E-02	-3.60E-02	prob

(continued)

Table 6-41
Trend analyses for dissolved oxygen deficit (WQDODEF), upper 1 metre
(continued)

Seg-ment	*period of record*		*avg obs/yr*	*slope ppm/yr*	*intcp*	*SEE*	*95% conf on slope lower*	*upper*	*trend*
NB6	671206	931117	15	6.26E-03	0.0	1.25	-7.20E-03	2.00E-02	poss
NB7	690326	931207	15	5.39E-03	-0.2	1.76	-1.90E-02	3.00E-02	poss
NB8	671002	931116	3.4	-8.46E-03	0.1	1.63	-6.60E-02	4.90E-02	
NB9	751001	931207	6.4	-7.76E-02	-0.1	1.96	-1.60E-01	1.70E-03	poss
ND2	771112	931005	1.9	-8.84E-02	0.1	1.63	-2.30E-01	4.80E-02	poss
ND4	780805	960129	19	7.28E-02	-1.0	1.60	-1.40E-02	1.60E-01	poss
NR1	671205	730807	13	-5.09E-01	2.3	1.70	-8.00E-01	-2.20E-01	prob
NR3	680530	830629	3.2	1.34E-01	-0.8	2.22	-2.40E-02	2.90E-01	poss
NR4	730917	920929	8.8	-9.55E-03	-1.3	2.77	-9.60E-02	7.70E-02	
NR5	680530	760830	12	-5.87E-02	0.3	2.01	-3.50E-01	2.40E-01	
OS1	711021	930427	3.3	1.41E-01	-2.8	5.30	-3.70E-02	3.20E-01	poss
OS3	720115	921123	2.6	3.28E-02	-0.8	2.00	-6.10E-02	1.30E-01	poss
OS4	850403	931216	5.7	-3.85E-02	-1.1	2.10	-2.60E-01	1.80E-01	
OS5	860910	931216	3.9	2.43E-01	-2.7	1.68	-8.70E-02	5.70E-01	poss
OS6	780724	931020	5.5	5.24E-02	-1.1	1.89	-4.80E-02	1.50E-01	poss
OS7	730917	931104	7.7	-4.10E-02	-0.6	1.89	-9.20E-02	1.00E-02	poss
PB1	730918	931209	7.8	-3.32E-02	0.1	1.49	-7.20E-02	5.30E-03	poss
PB2	770513	931209	11	1.09E-01	-2.4	2.45	2.50E-02	1.90E-01	prob
RB1	701014	931217	5.8	3.99E-04	-1.6	2.54	-7.00E-02	7.10E-02	poss
RB2	750722	931019	5.1	2.13E-02	-2.3	3.23	-1.30E-01	1.80E-01	poss
RB3	670930	931217	6.9	-7.33E-02	-0.1	2.18	-1.20E-01	-2.60E-02	prob
RB4	690917	931216	5.9	-4.64E-02	-0.6	5.30	-1.90E-01	1.00E-01	
RB5	721017	931217	13	-4.74E-02	-0.6	1.91	-8.60E-02	-8.70E-03	prob
RB6	721017	931006	5.7	-4.49E-02	-0.4	1.59	-8.20E-02	-7.70E-03	prob
RB7	761110	931217	5.6	-3.34E-02	-0.8	2.17	-1.30E-01	6.40E-02	
RB8	670930	931006	10	2.03E-02	-0.6	1.28	-6.50E-03	4.70E-02	poss
RB9	670930	931102	5.3	-6.07E-02	-0.2	2.42	-1.20E-01	-2.70E-03	prob
SC1	690501	931013	6.7	-9.60E-02	1.1	1.40	-1.20E-01	-7.20E-02	prob
SC2	690501	931203	13	-1.14E-01	1.0	2.20	-1.40E-01	-8.50E-02	prob
SC3	690501	931117	21	-1.14E-01	0.6	2.14	-1.40E-01	-8.90E-02	prob
UL01	690615	931112	2.8	-4.15E-02	-0.2	1.99	-1.20E-01	3.70E-02	
UL02	690615	931217	6.2	-9.91E-02	0.6	2.21	-1.50E-01	-4.70E-02	prob
UL03	680828	931217	8.9	7.66E-02	-0.7	2.34	3.40E-02	1.20E-01	prob
UL04	750106	930914	4.3	2.73E-04	-0.9	1.52	-6.20E-02	6.30E-02	poss
UL05	760611	931119	6	-6.47E-02	-0.4	2.31	-1.60E-01	2.90E-02	poss
UL06	690715	931216	6.1	5.56E-02	-0.4	2.03	8.00E-03	1.00E-01	prob
UL07	690715	931209	5.5	-4.54E-02	0.0	1.77	-8.40E-02	-7.10E-03	prob
UL08	771107	931026	6.1	2.52E-02	-0.2	2.05	-7.20E-02	1.20E-01	poss
UL09	780516	930825	6.8	-1.08E-01	0.8	1.60	-1.80E-01	-3.30E-02	prob

(continued)

Table 6-41
Trend analyses for dissolved oxygen deficit (WQDODEF), upper 1 metre
(continued)

Seg-ment	*period of record*		*avg obs/yr*	*slope ppm/yr*	*intcp*	*SEE*	*95% conf on slope lower*	*upper*	*trend*
UL10	690415	931119	4.8	-7.72E-03	-0.2	1.68	-4.90E-02	3.40E-02	
UL11	680827	921209	1.2	1.05E-01	-1.1	2.23	-2.00E-02	2.30E-01	poss
UL14	871006	880802	2.4						
GMI1	890105	931123	7.4	-3.45E-01	1.5	0.62	-4.80E-01	-2.10E-01	prob
GMI2	871021	931112	23	-3.41E-02	0.6	0.67	-9.30E-02	2.50E-02	
GMI3	871021	931112	30	4.52E-02	0.4	0.60	-4.50E-03	9.50E-02	poss
GMI4	730917	931122	8.6	7.19E-02	-0.9	1.05	4.60E-02	9.80E-02	prob
GMI5	860818	931122	21	6.74E-02	0.2	0.82	-3.00E-03	1.40E-01	poss
GMI6	690326	930730	8.5	-2.55E-02	0.5	1.10	-4.50E-02	-6.20E-03	prob
GMI7	850212	930503	42	1.69E-01	-1.0	1.27	6.80E-02	2.70E-01	prob
GMI8	850626	931022	20	1.00E-01	-0.8	1.25	-1.20E-02	2.10E-01	poss
GMI9	871022	931116	15	8.19E-02	-1.1	2.07	-1.40E-01	3.10E-01	poss
GMO2	791106	801028	2						
GMO4	850416	931122	1.2	3.94E-01	-1.9	0.69	1.70E-01	6.20E-01	prob
GMO5	850212	920817	6.3	-2.48E-01	0.4	2.39	-5.80E-01	8.20E-02	poss
GMO6	720919	931025	1.6	-3.50E-02	0.2	0.94	-8.80E-02	1.80E-02	poss
GMO7	850212	930503	9.1	2.78E-02	-0.8	1.43	-1.10E-01	1.70E-01	poss

Summary by component bay
Fraction (percent) of segments with data exhibiting indicated trend

component bay	*prob <0*	*poss <0*	*none*	*poss >0*	*prob >0*	*mean prob<0*	*mean prob>0*
Aransas Bay	38.5	15.4	15.4	23.1	7.7	-2.00E-02	4.05E-03
Copano Bay	55.6	11.1	11.1	22.2	0.0	-2.79E-02	
St Charles	100	0	0	0	0.0	-1.14E-01	
Mesquite	50	0	0	50	0.0	-2.32E-02	
Redfish	50	0	25	25	0.0	-2.83E-02	
Corpus Christi	15	10	20	30	25.0	-5.92E-03	1.38E-02
CCSC (bay)	40	0	40	20	0.0	-3.77E-02	
Inner Harbor	14.3	0	42.9	14.3	14.3	-1.12E-02	2.71E-02
Nueces Bay	40	0	40	20	0.0	-1.87E-02	
Aransas Pass	25	0	25	50	0.0	-1.36E-02	
Causeway N	0	33.3	0	66.7	0.0		
Causeway S	25	0	50	25	0.0	-2.48E-02	
Laguna (King)	23.1	15.4	23.1	23.1	15.4	-1.80E-02	1.02E-02
Laguna (Baffin)	0	0	66.7	33.3	0.0		
Baffin Bay	20	20	40	20	0.0	-1.30E-02	
GOM inlet	16.7	33.3	0	33.3	16.7	-4.25E-03	2.82E-02

Table 6-42
Summary of trend analysis by component bay for WQALK
Fraction (percent) of segments with data, exhibiting indicated trend
and average of probable trends (ppm/yr)

component bay	*prob <0*	*poss <0*	*none*	*poss >0*	*prob >0*	*mean prob<0*	*mean prob>0*
Aransas Bay	100	0	0	0	0	-1.25E-01	
Copano Bay	0	0	0	100	0		
St Charles	0	0	100	0	0		
Mesquite	100	0	0	0	0	-3.95E-01	
Redfish	100	0	0	0	0	-3.04E-01	
Corpus Christi	100	0	0	0	0	-9.85E-02	
CCSC (bay)	100	0	0	0	0	-2.56E-01	
Inner Harbor	100	0	0	0	0	-6.64E-01	
Nueces Bay	50	0	50	0	0	-2.85E-01	
Aransas Pass							
Causeway N							
Causeway S	100	0	0	0	0	-4.60E-01	
Laguna (King)	100	0	0	0	0	-2.48E-01	
Laguna (Baffin)	100	0	0	0	0	-2.70E-01	
Baffin Bay	50	50	0	0	0	-6.38E-01	
GOM inlet	100	0	0	0	0	-1.85E-01	

Table 6-43
Summary of trend analysis by component bay for WQPH
Fraction (percent) of segments with data, exhibiting indicated trend
and average of probable trends (pH/yr)

component bay	*prob <0*	*poss <0*	*none*	*poss >0*	*prob >0*	*mean prob<0*	*mean prob>0*
Aransas Bay	0	9.1	27.3	0	63.6		1.00E-02
Copano Bay	0	0	11.1	11.1	77.8		8.50E-03
St Charles	0	0	0	100	0		
Mesquite	0	0	0	75	25		2.02E-03
Redfish	37.5	25	37.5	0	0	-1.28E-02	
Corpus Christi	41.2	17.6	11.8	29.4	0	-1.62E-02	
CCSC (bay)	20	40	20	20	0	-3.72E-03	
Inner Harbor	28.6	0	14.3	57.1	0	-4.47E-02	
Nueces Bay	0	20	0	60	20		7.28E-03
Aransas Pass	0	0	75	25	0		
Causeway N	100	0	0	0	0	-3.55E-02	
Causeway S	0	0	0	66.7	33.3		9.98E-03
Laguna (King)	33.3	33.3	11.1	11.1	11.1	-8.38E-03	6.80E-04
Laguna (Baffin)	0	0	100	0	0		
Baffin Bay	40	60	0	0	0	-1.26E-02	
GOM inlet	0	0	50	50	0		

Table 6-44
Summary of trend analysis by component bay for WQAMMN
Fraction (percent) of segments with data, exhibiting indicated trend
and average of probable trends (ppm/yr)

component bay	*prob <0*	*poss <0*	*none*	*poss >0*	*prob >0*	*mean prob<0*	*mean prob>0*
Aransas Bay	28.6	14.3	42.9	14.3	0	-1.00E-03	
Copano Bay	16.7	0	66.7	16.7	0	-4.43E-04	
St Charles	0	50	50	0	0		
Mesquite	0	33.3	33.3	33.3	0		
Redfish	16.7	0	66.7	16.7	0	-6.78E-04	
Corpus Christi	40	6.7	13.3	33.3	6.7	-2.74E-03	1.06E-03
CCSC (bay)	40	0	40	0	20	-1.76E-03	1.26E-03
Inner Harbor	57.1	0	28.6	0	14.3	-1.34E-02	2.24E-03
Nueces Bay	0	0	20	40	40		6.36E-03
Aransas Pass	0	0	33.3	33.3	33.3		2.29E-02
Causeway N	50	0	0	50	0	-1.50E-03	
Causeway S	50	0	50	0	0	-1.38E-03	
Laguna (King)	33.3	16.7	33.3	16.7	0	-1.12E-03	
Laguna (Baffin)	100	0	0	0	0	-1.17E-03	
Baffin Bay	80	0	0	20	0	-5.72E-03	
GOM inlet	0	0	50	0	50		1.08E-02

Table 6-45
Summary of trend analysis by component bay for WQNO3N
Fraction (percent) of segments with data, exhibiting indicated trend
and average of probable trends (ppm/yr)

component bay	*prob <0*	*poss <0*	*none*	*poss >0*	*prob >0*	*mean prob<0*	*mean prob>0*
Aransas Bay	28.6	14.3	28.6	14.3	14.3	-8.60E-04	7.13E-04
Copano Bay	66.7	16.7	16.7	0	0	-7.80E-02	
St Charles	50	0	50	0	0	-1.31E-02	
Mesquite	0	33.3	33.3	33.3	0		
Redfish	42.9	0	28.6	14.3	14.3	-1.17E-02	5.96E-03
Corpus Christi	12.5	25	25	18.8	18.8	-1.69E-04	5.44E-04
CCSC (bay)	40	0	20	0	40	-3.45E-03	1.50E-03
Inner Harbor	0	0	60	40	0		
Nueces Bay	20	0	0	40	40	-2.36E-03	4.34E-03
Aransas Pass	50	0	50	0	0	-5.08E-03	
Causeway N	33.3	0	0	33.3	33.3	-6.07E-03	1.75E-03
Causeway S	0	0	50	50	0		
Laguna (King)	50	0	16.7	33.3	0	-5.86E-03	
Laguna (Baffin)	100	0	0	0	0	-1.11E-03	
Baffin Bay	60	0	20	20	0	-3.45E-03	
GOM inlet	0	0	50	0	50		8.90E-04

Table 6-46
Summary of trend analysis by component bay for WQTOTP
Fraction (percent) of segments with data, exhibiting indicated trend
and average of probable trends (ppm/yr)

component bay	*prob <0*	*poss <0*	*none*	*poss >0*	*prob >0*	*mean prob<0*	*mean prob>0*
Aransas Bay	0	0	57.1	28.6	14.3		1.05E-04
Copano Bay	0	16.7	66.7	0	16.7		2.50E-04
St Charles	0	50	0	50	0		
Mesquite	0	0	50	50	0		
Redfish	0	16.7	16.7	16.7	50		1.85E-03
Corpus Christi	0	9.1	9.1	63.6	18.2		1.77E-04
CCSC (bay)	0	0	50	50	0		
Inner Harbor	25	25	25	25	0	-1.59E-03	
Nueces Bay	0	0	0	100	0		
Aransas Pass	0	0	100	0	0		
Causeway N	0	0	50	50	0		
Causeway S	0	0	0	100	0		
Laguna (King)	0	0	50	50	0		
Laguna (Baffin)	0	0	0	0	100		2.28E-04
Baffin Bay	20	20	40	20	0	-6.92E-04	
GOM inlet	0	0	0	100	0		

Table 6-47
Summary of trend analysis by component bay for WQTPO4
Fraction (percent) of segments with data, exhibiting indicated trend
and average of probable trends (ppm/yr)

component bay	*prob <0*	*poss <0*	*none*	*poss >0*	*prob >0*	*mean prob<0*	*mean prob>0*
Aransas Bay	0	0	0	0	100		3.93E+00
Copano Bay	0	0	50	50	0		
St Charles	0	0	100	0	0		
Mesquite	0	0	0	100	0		
Redfish	0	0	0	100	0		
Corpus Christi	0	0	33.3	66.7	0		
CCSC (bay)	0	0	0	100	0		
Inner Harbor	0	75	25	0	0		
Nueces Bay	0	0	0	100	0		
Aransas Pass	0	0	0	100	0		
Causeway N	0	0	100	0	0		
Causeway S	0	0	0	100	0		
Laguna (King)	0	0	0	100	0		
Laguna (Baffin)	0	0	0	0	100		7.62E-04
Baffin Bay	0	33.3	66.7	0	0		
GOM inlet	0	0	100	0	0		

Table 6-48
Summary of trend analysis by component bay for WQCHLA
Fraction (percent) of segments with data, exhibiting indicated trend
and average of probable trends (ppm/yr)

component bay	*prob <0*	*poss <0*	*none*	*poss >0*	*prob >0*	*mean prob<0*	*mean prob>0*
Aransas Bay	0	28.6	42.9	28.6	0		
Copano Bay	40	40	0	20	0	-3.17E+00	
St Charles	50	0	0	0	50	-5.25E+00	8.35E-01
Mesquite	33.3	33.3	33.3	0	0	-3.58E+00	
Redfish	0	0	66.7	33.3	0		
Corpus Christi	21.4	14.3	14.3	21.4	28.6	-5.11E-01	6.10E-01
CCSC (bay)	40	0	20	40	0	-7.88E-01	
Inner Harbor	100	0	0	0	0	-2.50E+00	
Nueces Bay	20	0	20	40	20	-2.34E-01	4.30E-02
Aransas Pass	50	50	0	0	0	-2.73E-01	
Causeway N	50	50	0	0	0	-1.81E-01	
Causeway S	0	0	0	100	0		
Laguna (King)	33.3	0	33.3	33.3	0	-8.08E-02	
Laguna (Baffin)	0	0	100	0	0		
Baffin Bay	20	0	40	20	20	-2.36E+00	4.02E-01
GOM inlet	0	0	100	0	0		

Table 6-49
Summary of trend analysis by component bay for WQBOD5
Fraction (percent) of segments with data, exhibiting indicated trend
and average of probable trends (ppm/yr)

component bay	*prob <0*	*poss <0*	*none*	*poss >0*	*prob >0*	*mean prob<0*	*mean prob>0*
Aransas Bay	33.3	33.3	33.3	0	0	-1.70E-01	
Copano Bay	60	0	20	20	0	-7.36E-02	
St Charles	0	0	100	0	0		
Mesquite	0	0	100	0	0		
Redfish	0	50	0	50	0		
Corpus Christi	40	40	0	20	0	-5.15E-02	
CCSC (bay)	25	25	0	50	0	-4.62E-02	
Inner Harbor	0	42.9	57.1	0	0		
Nueces Bay	0	0	0	100	0		
Aransas Pass	0	0	0	0	100		1.43E-01
Causeway N	100	0	0	0	0	-5.63E-02	
Causeway S							
Laguna (King)	0	66.7	0	33.3	0		
Laguna (Baffin)	0	100	0	0	0		
Baffin Bay	20	40	0	0	40	-2.78E-01	1.40E+00
GOM inlet	0	0	100	0	0		

Table 6-50
Summary of trend analysis by component bay for WQXTSS
Fraction (percent) of segments with data, exhibiting indicated trend
and average of probable trends (ppm/yr)

component bay	*prob <0*	*poss <0*	*none*	*poss >0*	*prob >0*	*mean prob<0*	*mean prob>0*
Aransas Bay	38.5	30.8	23.1	7.7	0	-6.89E-01	
Copano Bay	22.2	11.1	33.3	33.3	0	-2.38E-01	
St Charles	50	0	50	0	0	-3.54E-01	
Mesquite	25	0	25	50	0	-3.20E-01	
Redfish	37.5	12.5	25	25	0	-1.88E-01	
Corpus Christi	55	10	25	10	0	-1.25E+00	
CCSC (bay)	20	20	40	20	0	-1.35E-01	
Inner Harbor	0	0	66.7	0	33.3		9.38E+00
Nueces Bay	80	0	0	20	0	-3.33E+01	
Aransas Pass	0	0	50	0	50		1.43E+00
Causeway N	100	0	0	0	0	-8.43E-01	
Causeway S	100	0	0	0	0	-1.37E+00	
Laguna (King)	92.3	0	7.7	0	0	-1.33E+00	
Laguna (Baffin)	100	0	0	0	0	-1.04E+00	
Baffin Bay	100	0	0	0	0	-2.93E+00	
GOM inlet	16.7	16.7	16.7	33.3	16.7	-1.73E-01	4.23E-01

Table 6-51
Summary of trend analysis by component bay for WQTOC
Fraction (percent) of segments with data, exhibiting indicated trend
and average of probable trends (ppm/yr)

component bay	*prob <0*	*poss <0*	*none*	*poss >0*	*prob >0*	*mean prob<0*	*mean prob>0*
Aransas Bay	15.4	7.7	23.1	7.7	7.7	-3.73E-01	2.44E-01
Copano Bay	11.1	22.2	33.3	0.0	0.0	-8.83E-02	
St Charles	100.0	0.0	0.0	0.0	0.0	-3.45E+00	
Mesquite	25.0	0.0	25.0	0.0	0.0	-6.63E-01	
Redfish	25.0	12.5	37.5	0.0	0.0	-1.09E-01	
Corpus Christi	40.0	0.0	10.0	5.0	0.0	-4.03E-01	
CCSC (bay)	60.0	0.0	0.0	20.0	20.0	-4.52E-01	1.89E-01
Inner Harbor	0.0	0.0	0.0	0.0	85.7		2.03E+02
Nueces Bay	20.0	20.0	0.0	20.0	0.0	-2.56E-01	
Aransas Pass	25.0	25.0	0.0	25.0	0.0	-1.12E-01	
Causeway N	33.3	0.0	0.0	33.3	0.0	-2.04E-01	
Causeway S	25.0	0.0	0.0	0.0	0.0	-1.09E-01	
Laguna (King)	15.4	0.0	7.7	7.7	7.7	-1.31E-01	2.65E-02
Laguna (Baffin)	0.0	16.7	0.0	0.0	33.3		1.26E+00
Baffin Bay	60.0	0.0	20.0	20.0	0.0	-2.69E-01	
GOM inlet	16.7	0.0	0.0	0.0	0.0	-6.72E-02	

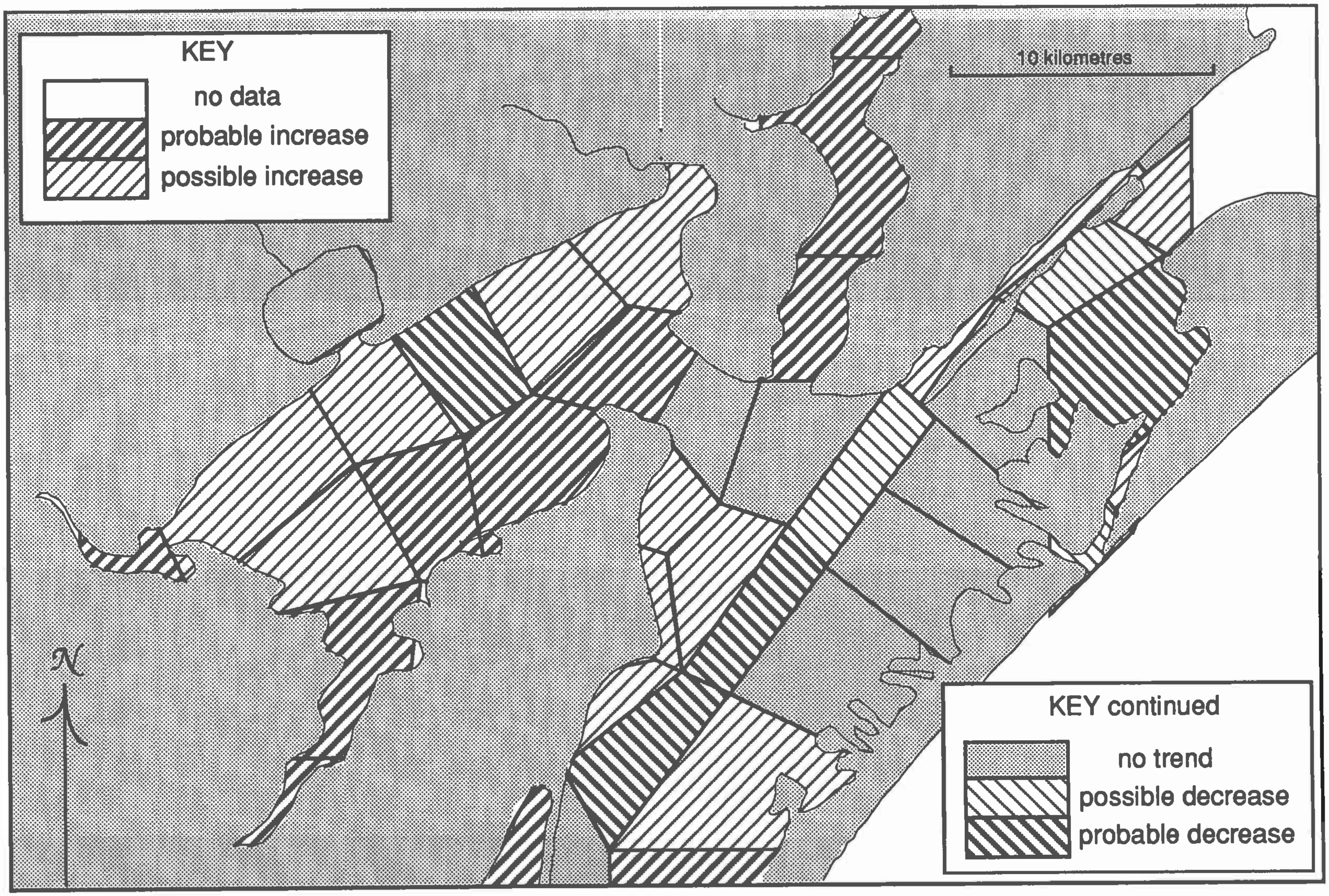

Figure 6-69. WQSAL in upper 1 m period-of-record time trends for Aransas-Copano system

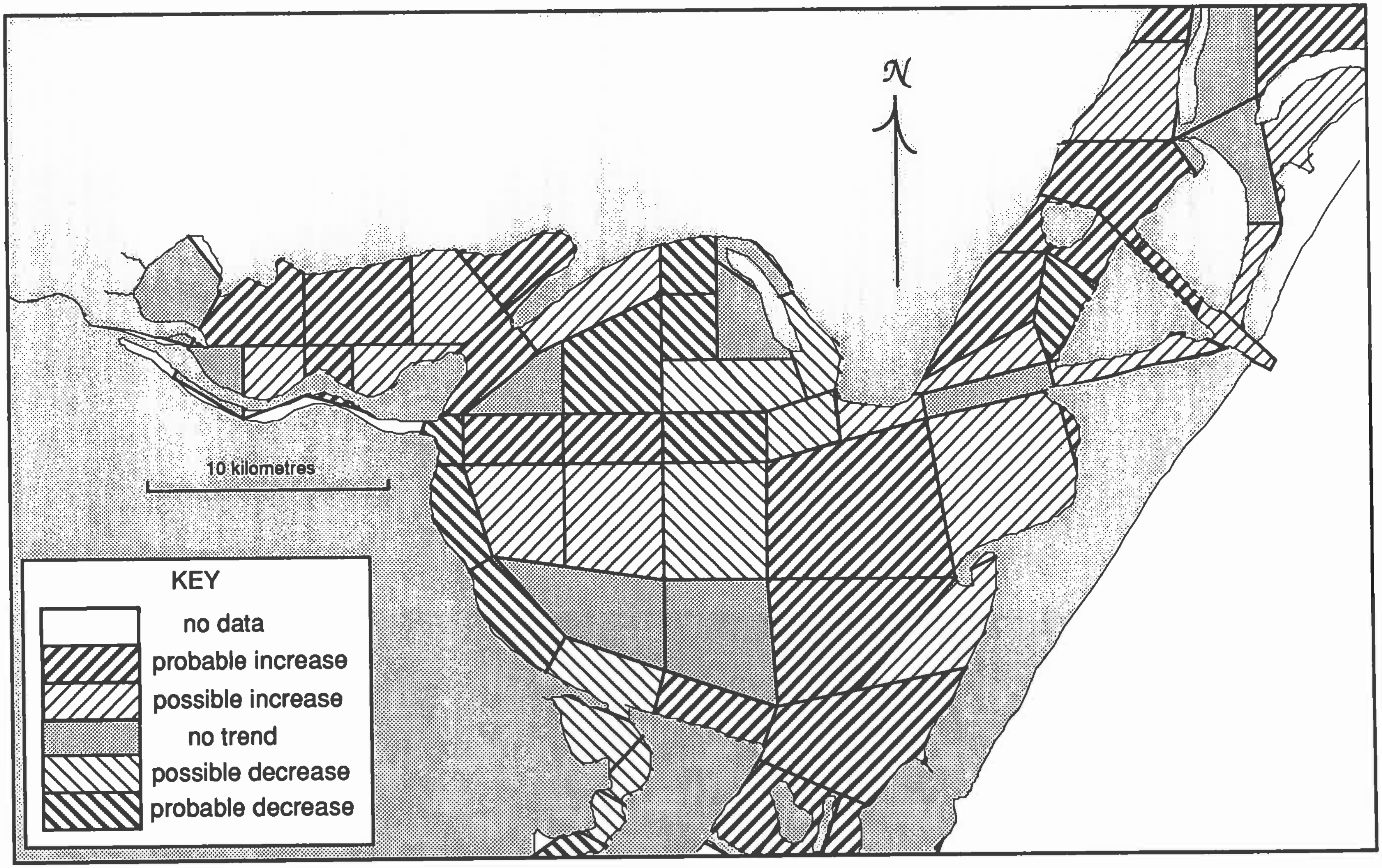

Figure 6-70. WQSAL in upper 1 m period-of-record time trends for Corpus Christi system

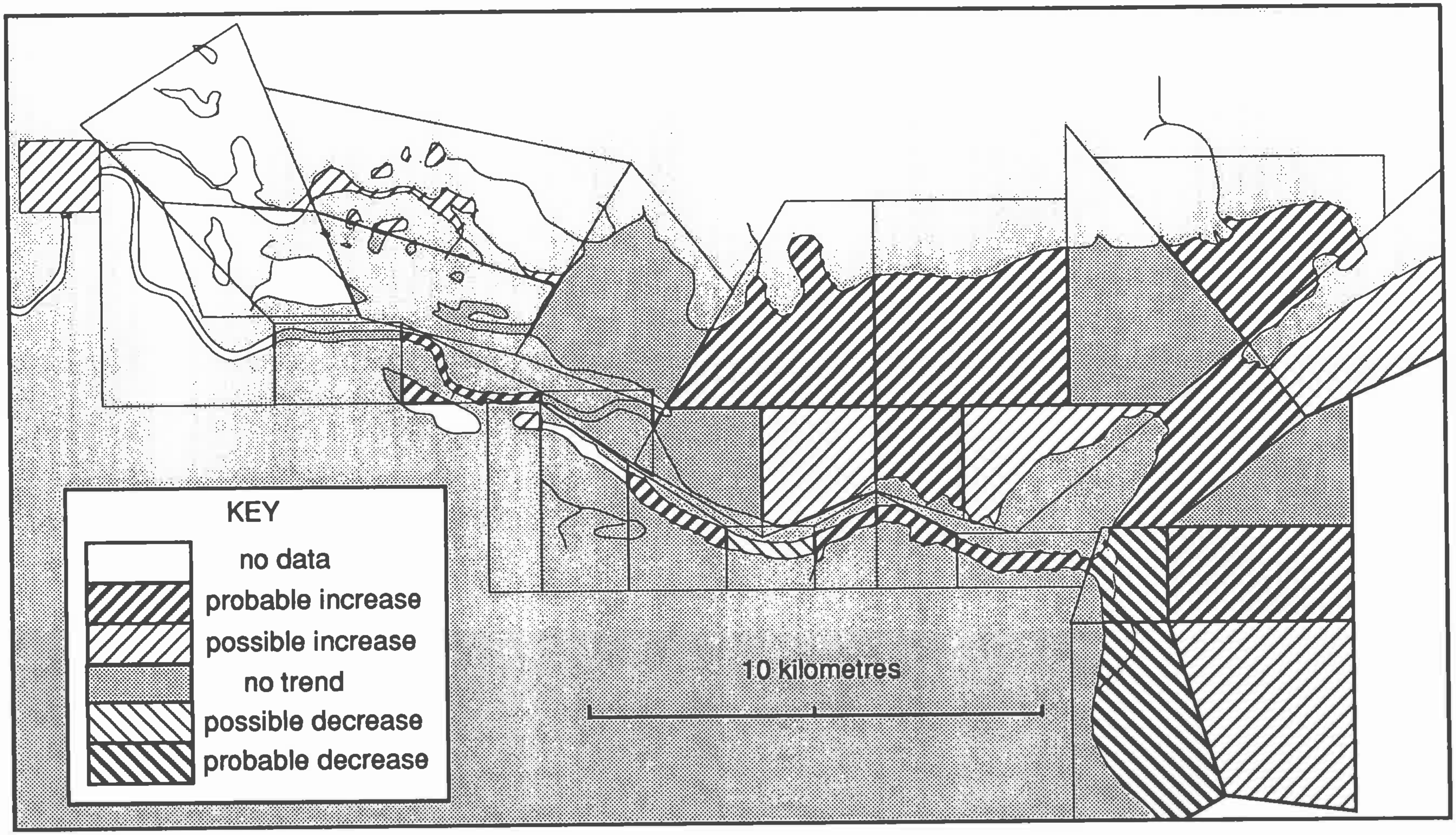

Figure 6-71. WQSAL in upper 1 m period-of-record time trends for Nueces Bay region, including Inner Harbor

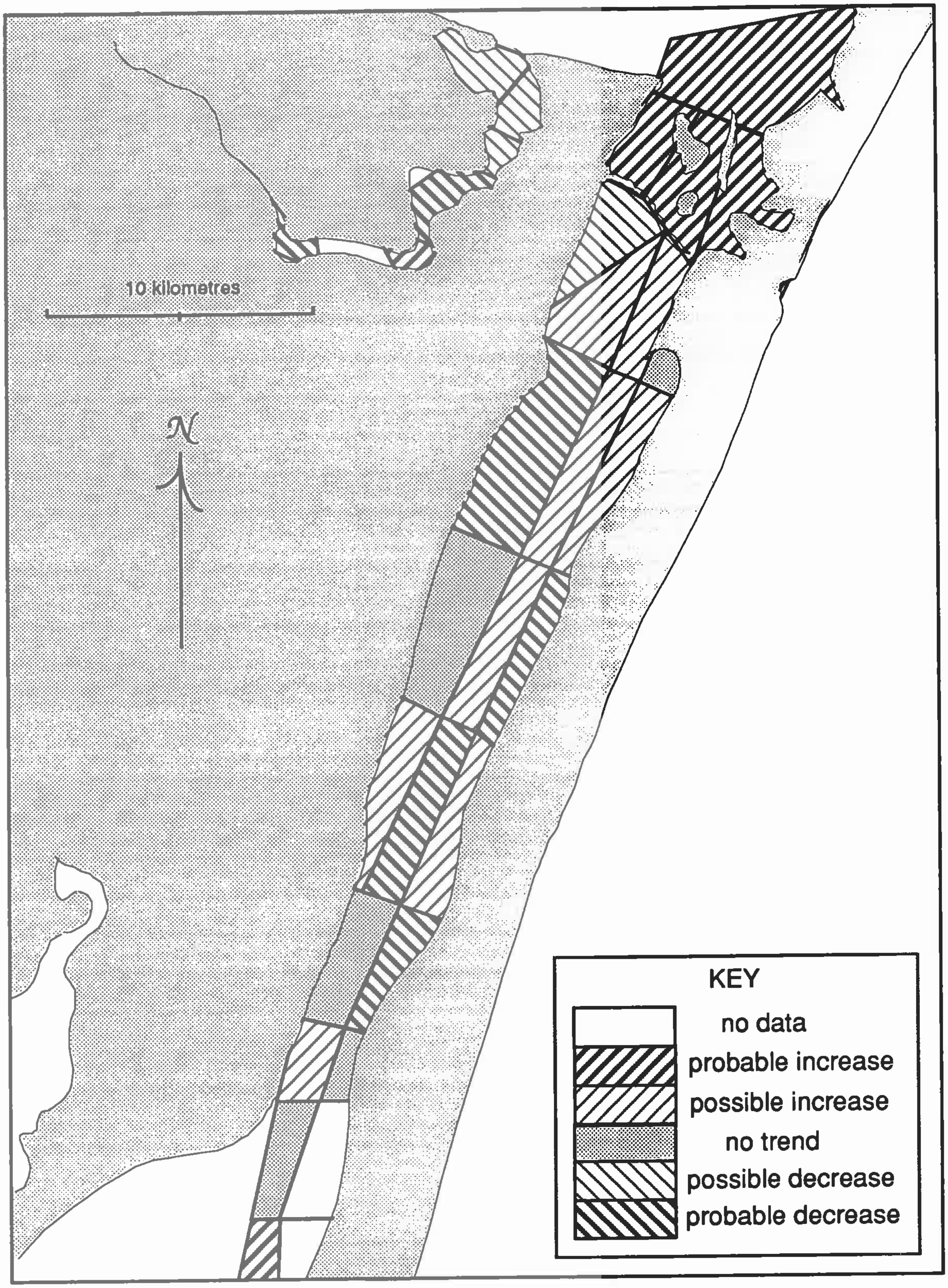

Figure 6-72. WQSAL in upper 1 m period-of-record trends for Upper Laguna Madre

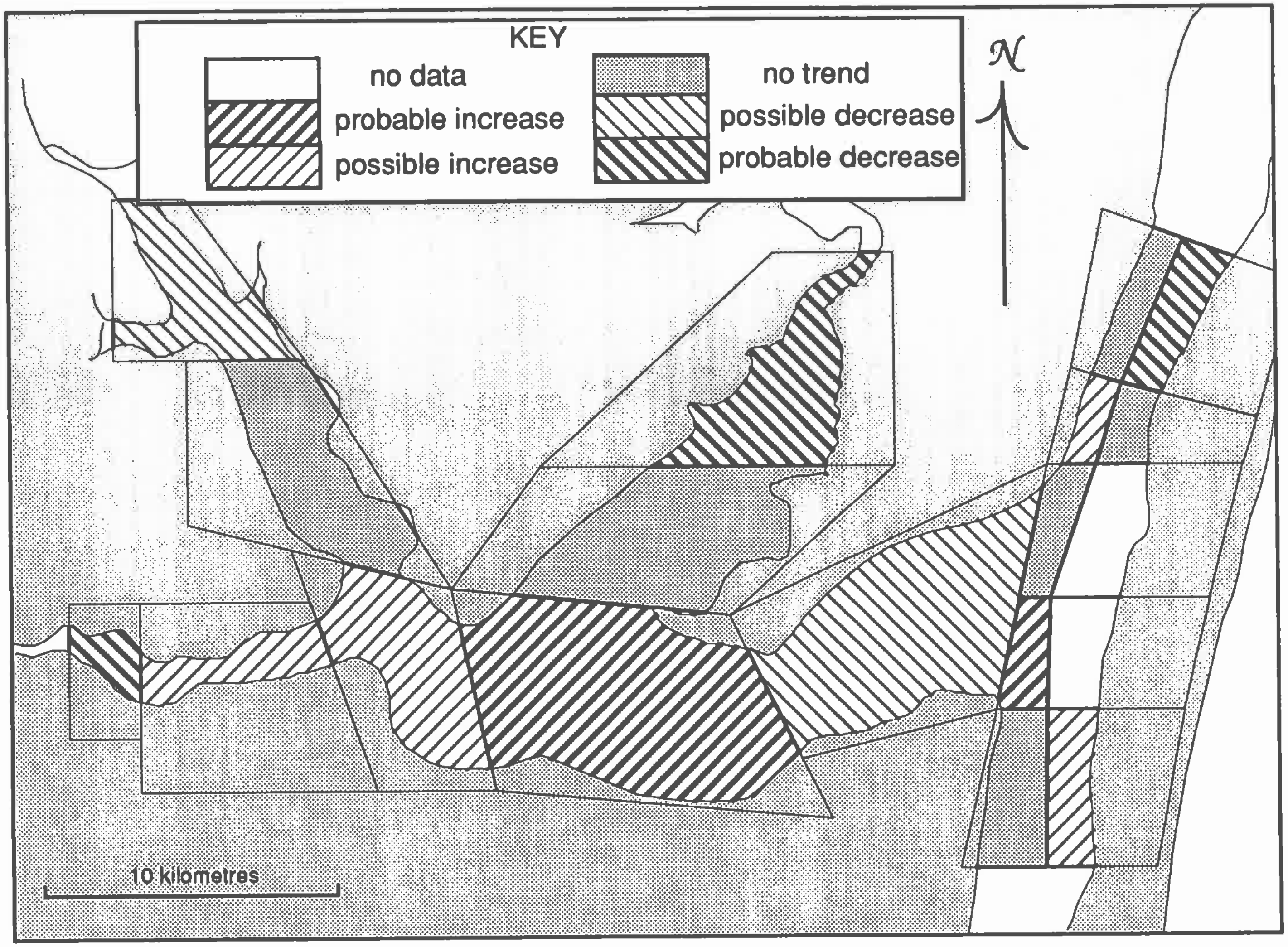

Figure 6-73. WQSAL in upper 1 m period-of-record time trends for Baffin Bay region

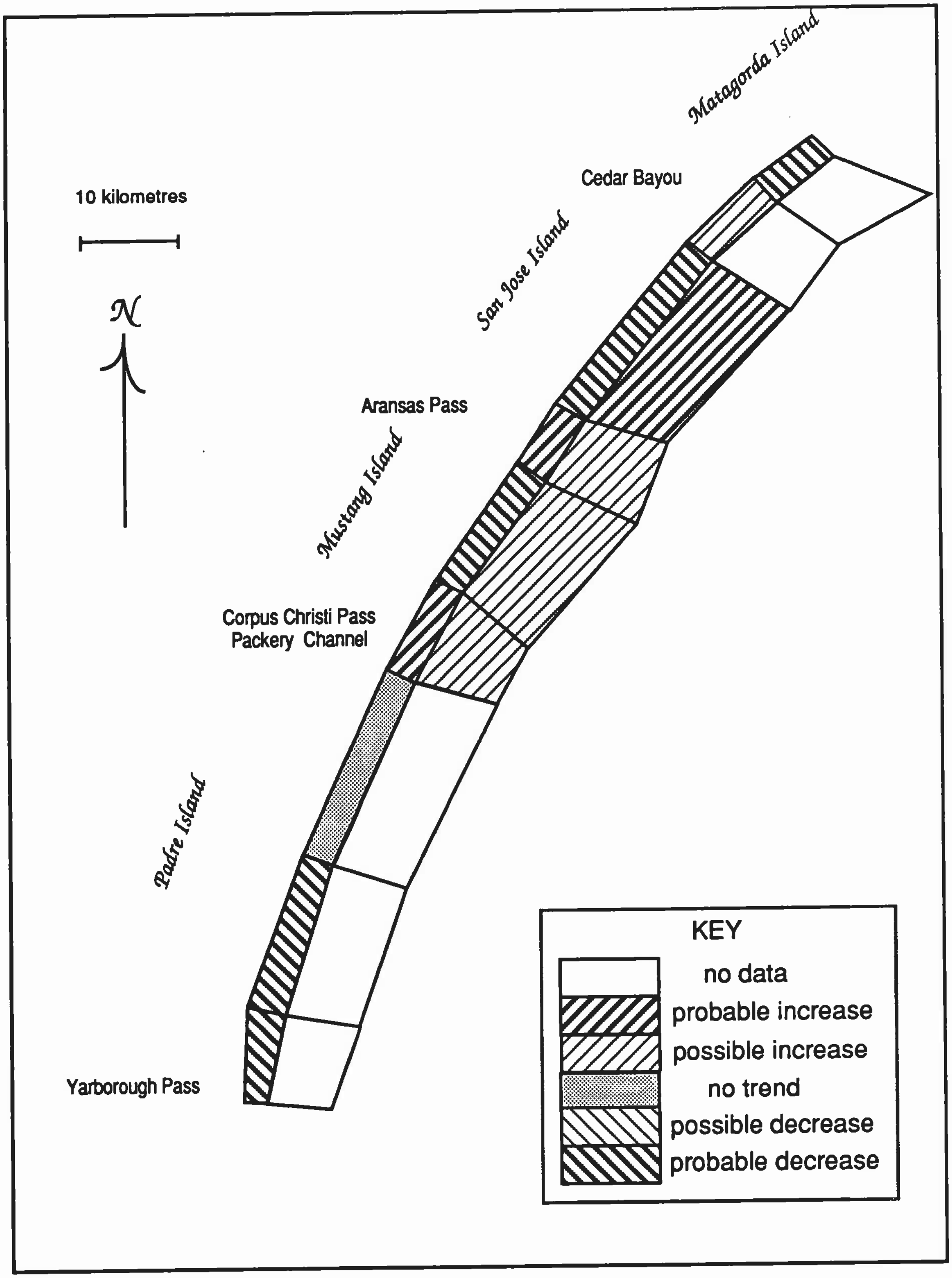

Figure 6-74. WQSAL in upper 1 m period-of-record trends for Gulf of Mexico

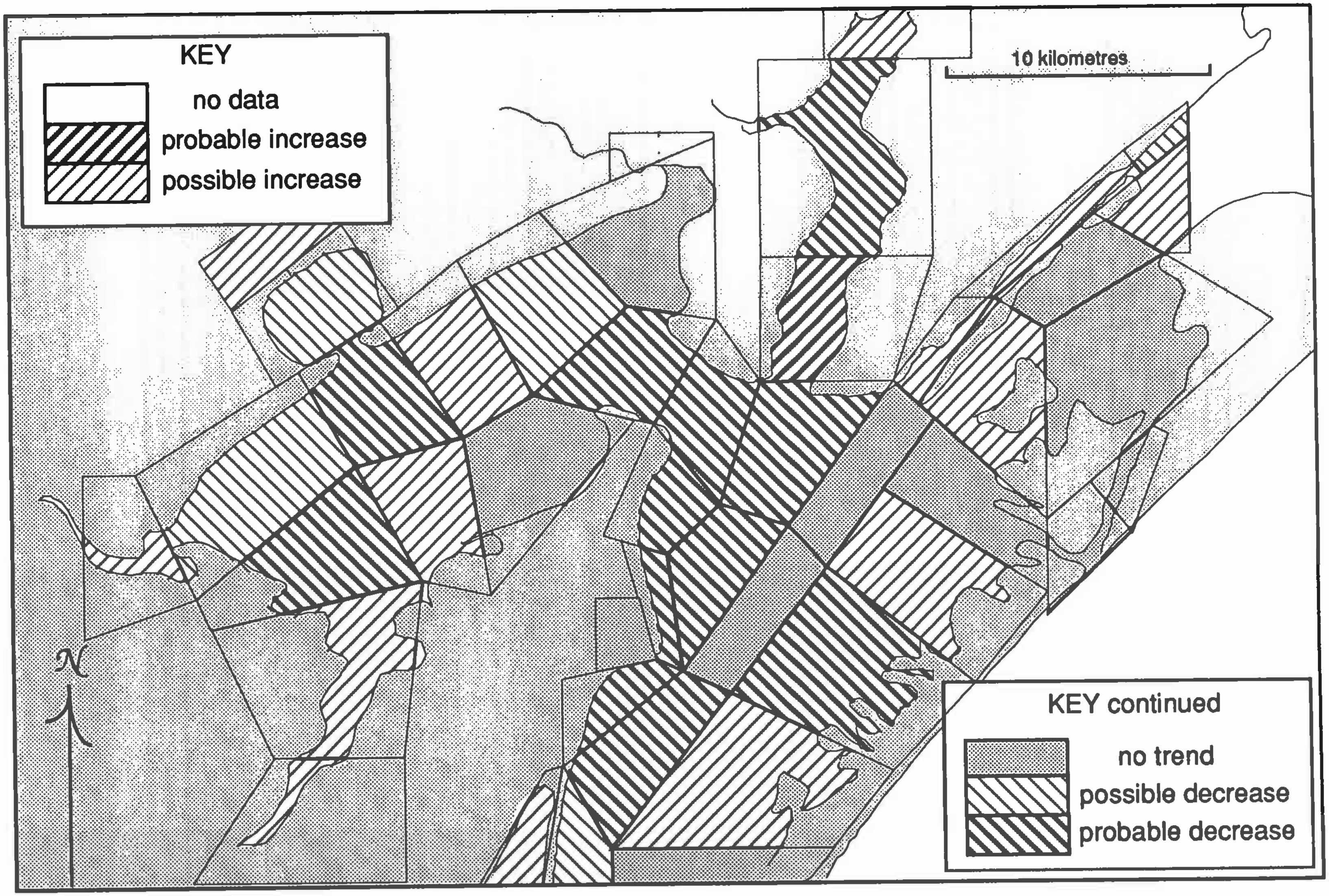

Figure 6-75. WQTEMP in upper 1 m period-of-record time trends for Aransas-Copano system

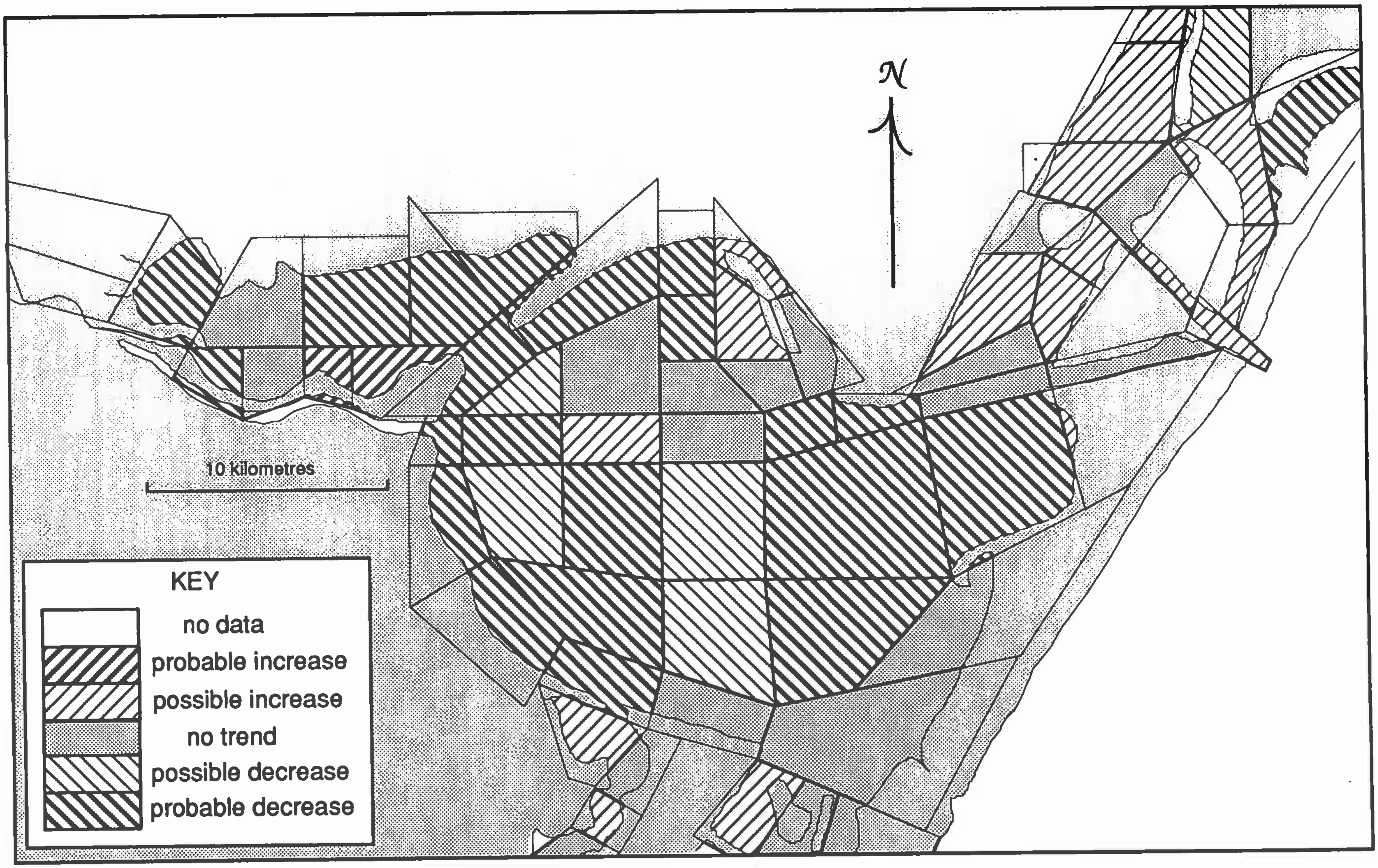

Figure 6-76. WQTEMP in upper 1 m period-of-record trends for Corpus Christi system

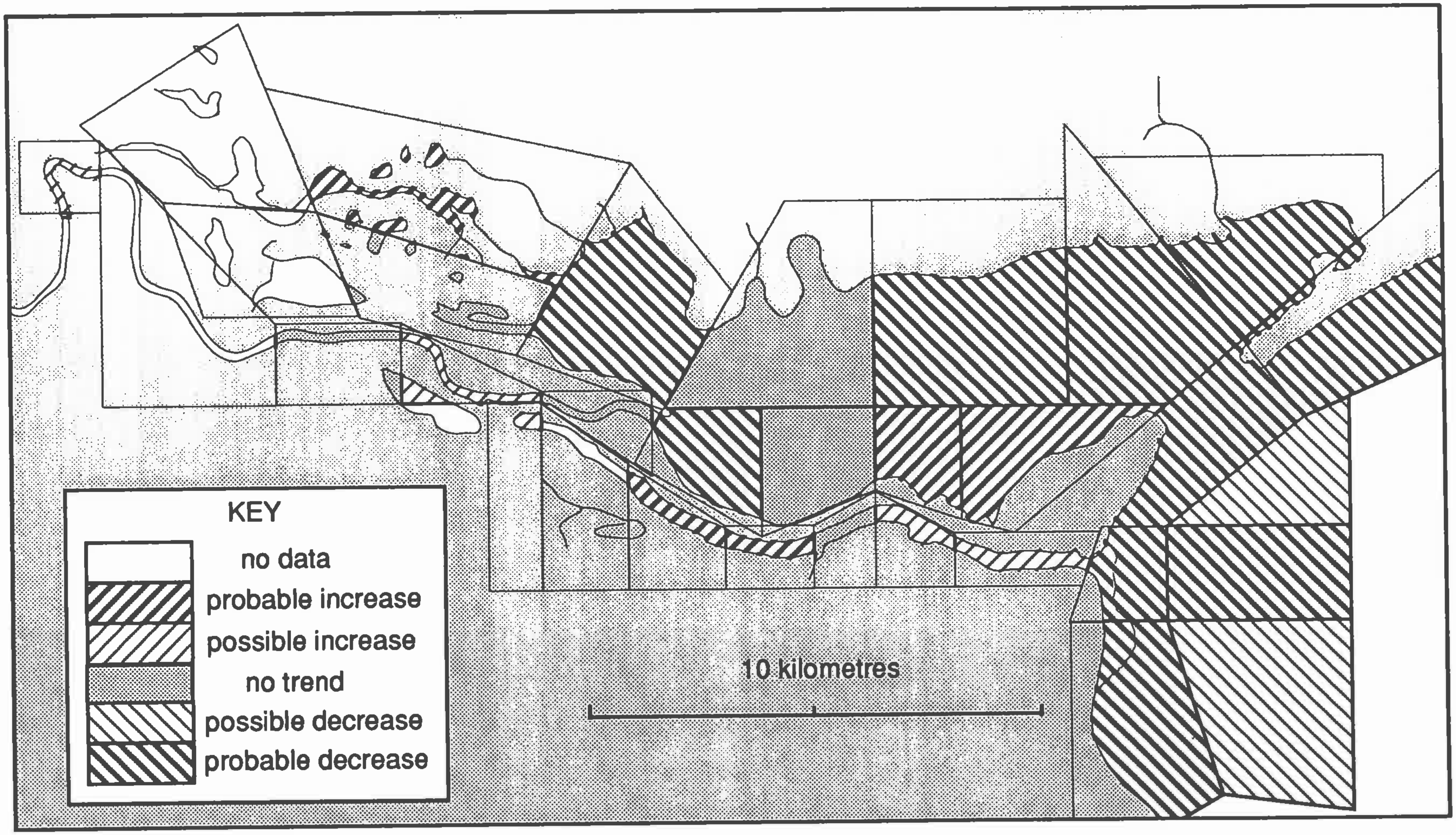

Figure 6-77. WQTEMP in upper 1 m period-of-record time trends for Nueces Bay region, including Inner Harbor

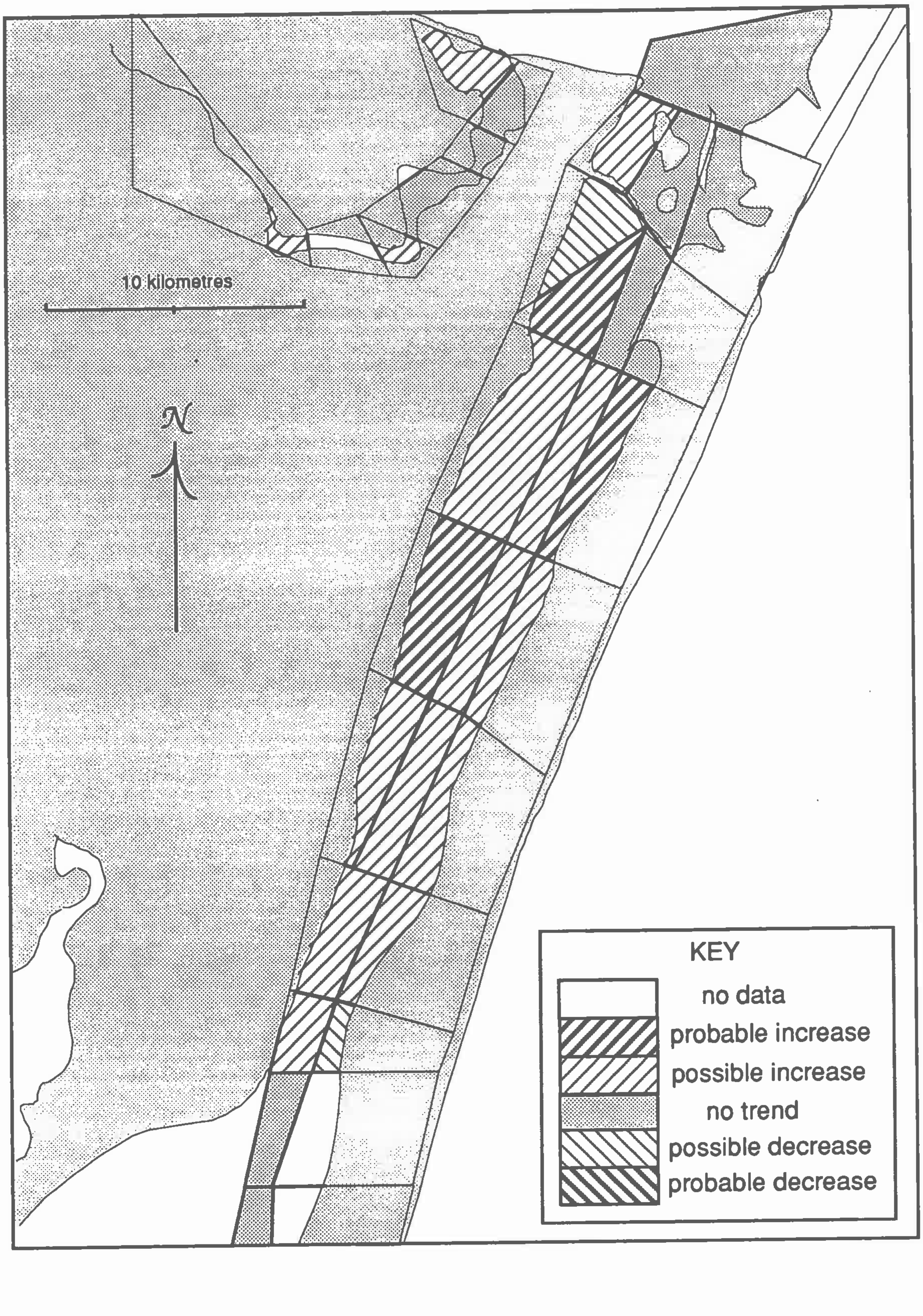

Figure 6-78. WQTEMP in upper 1 m period-of-record trends for Upper Laguna Madre

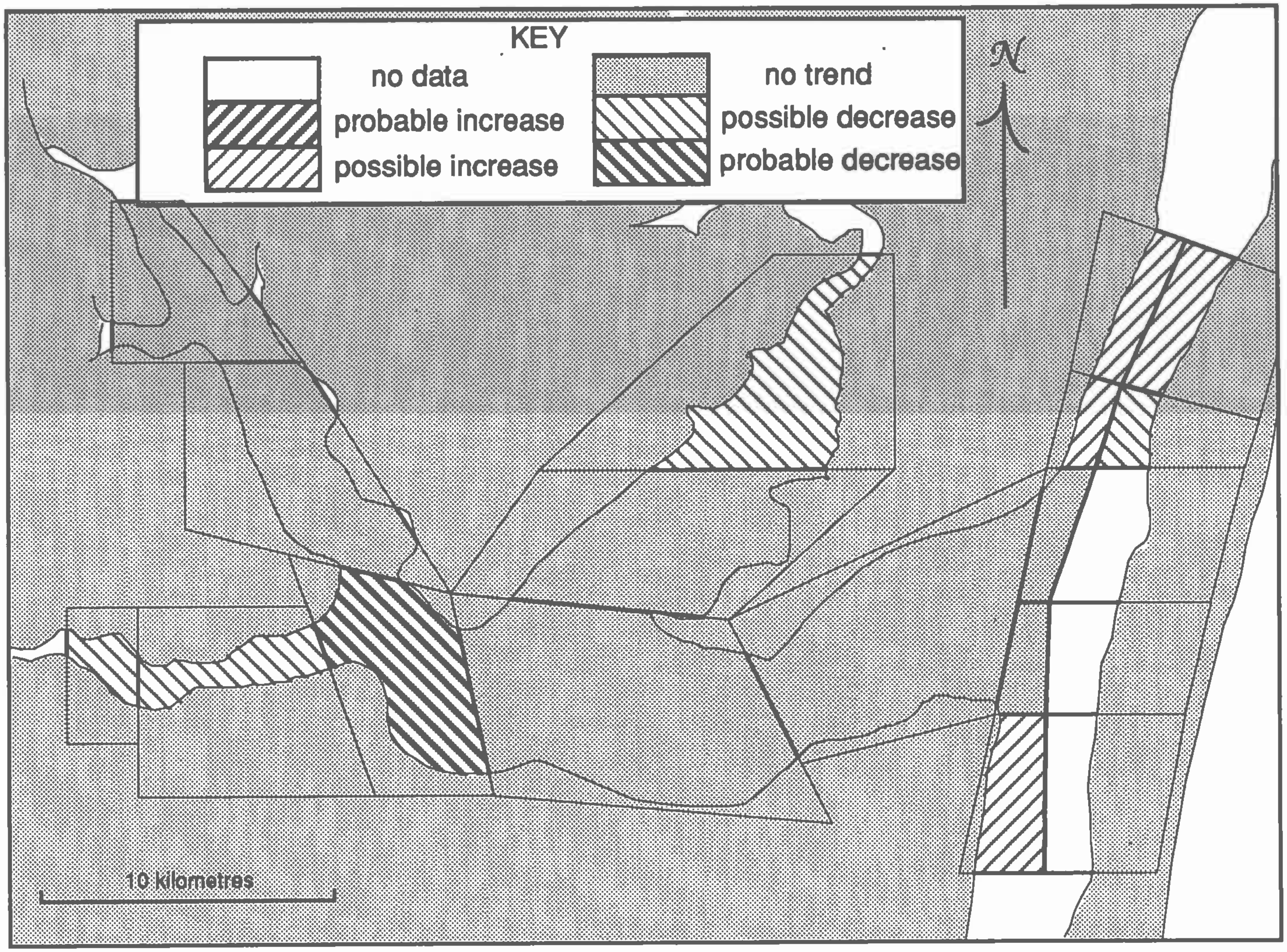

Figure 6-79. WQTEMP in upper 1 m period-of-record time trends for Baffin Bay region

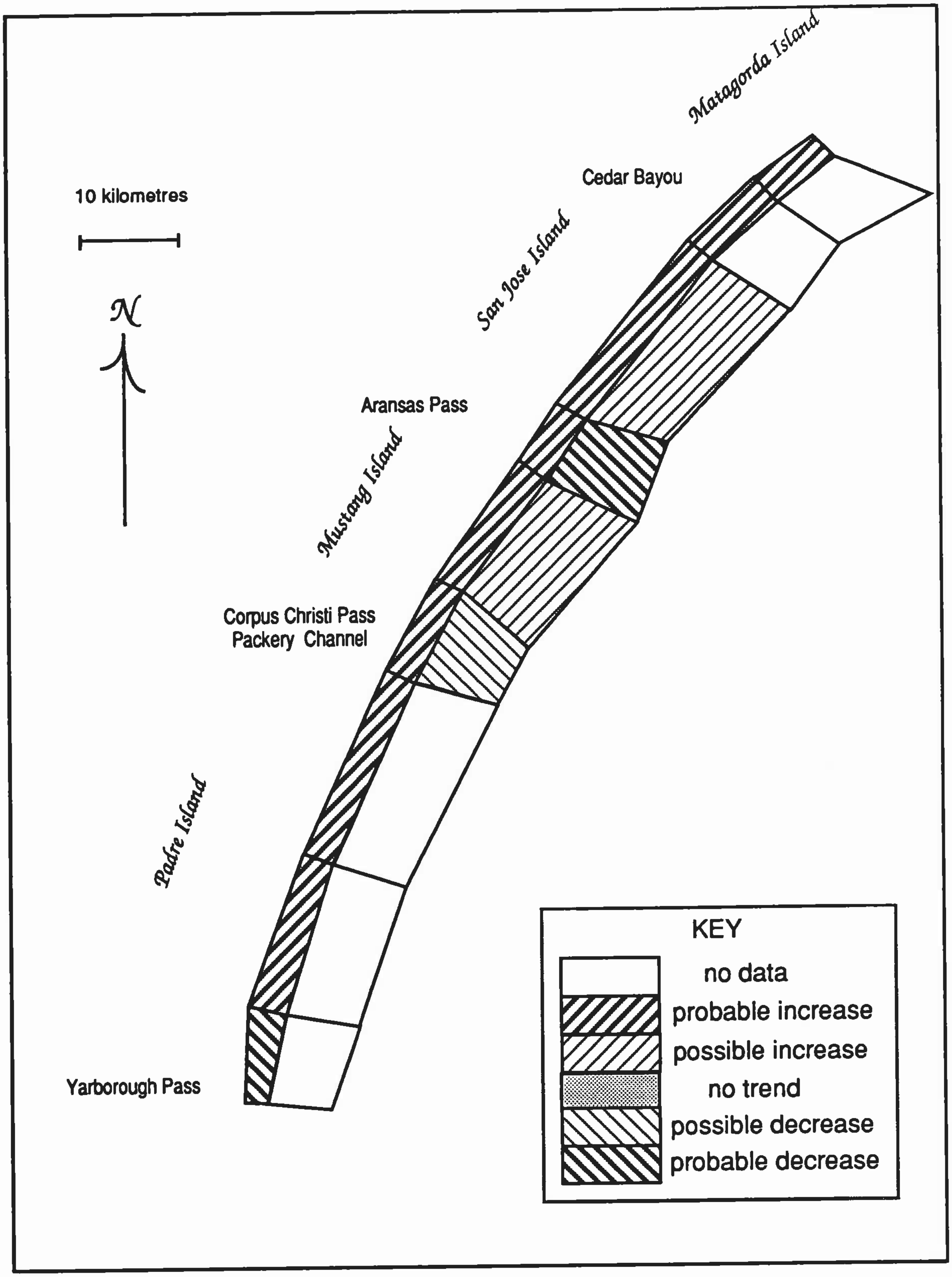

Figure 6-80. WQTEMP in upper 1 m period-of-record trends for Gulf of Mexico

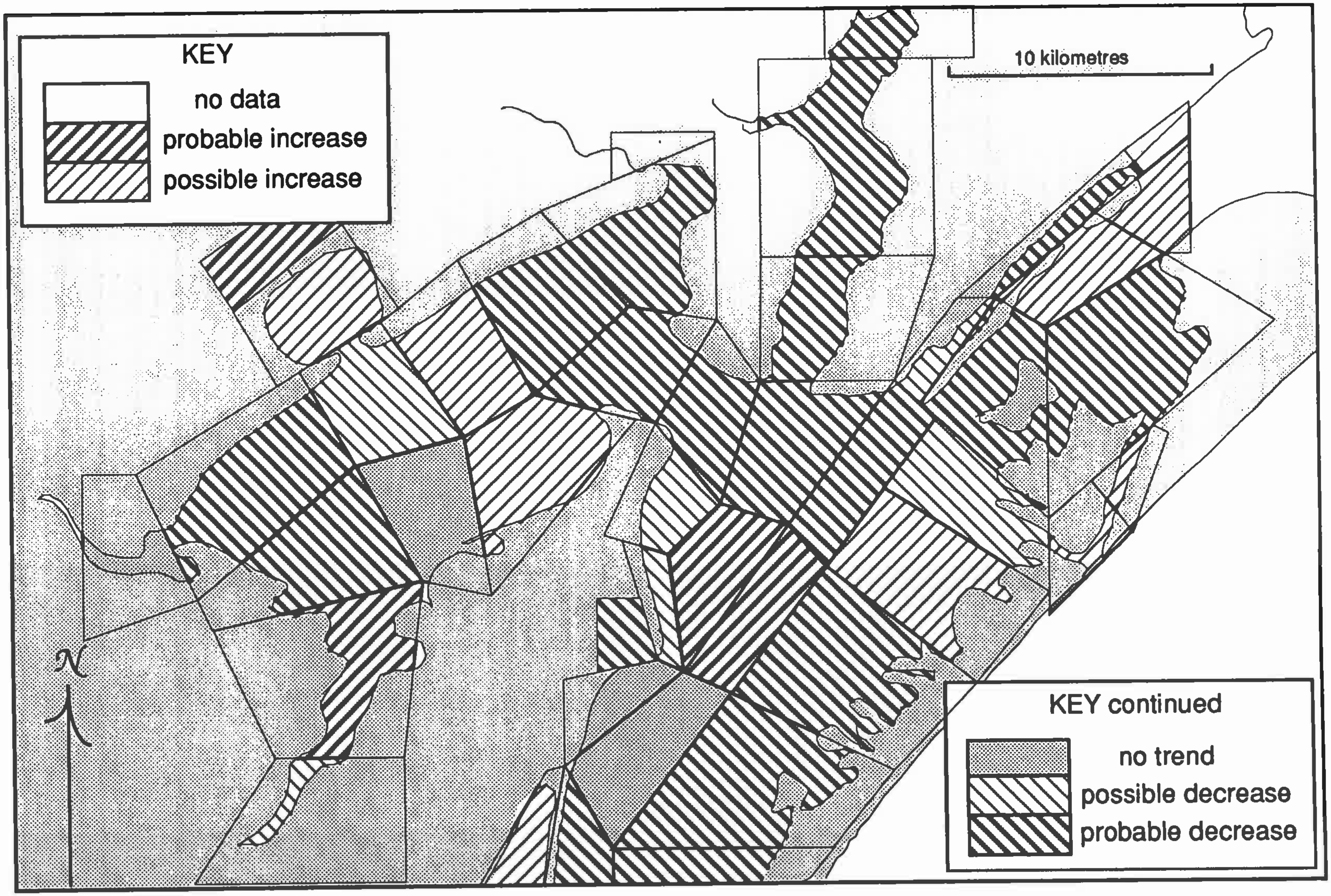

Figure 6-81. WQDODEF in upper 1 m period-of-record time trends for Aransas-Copano system

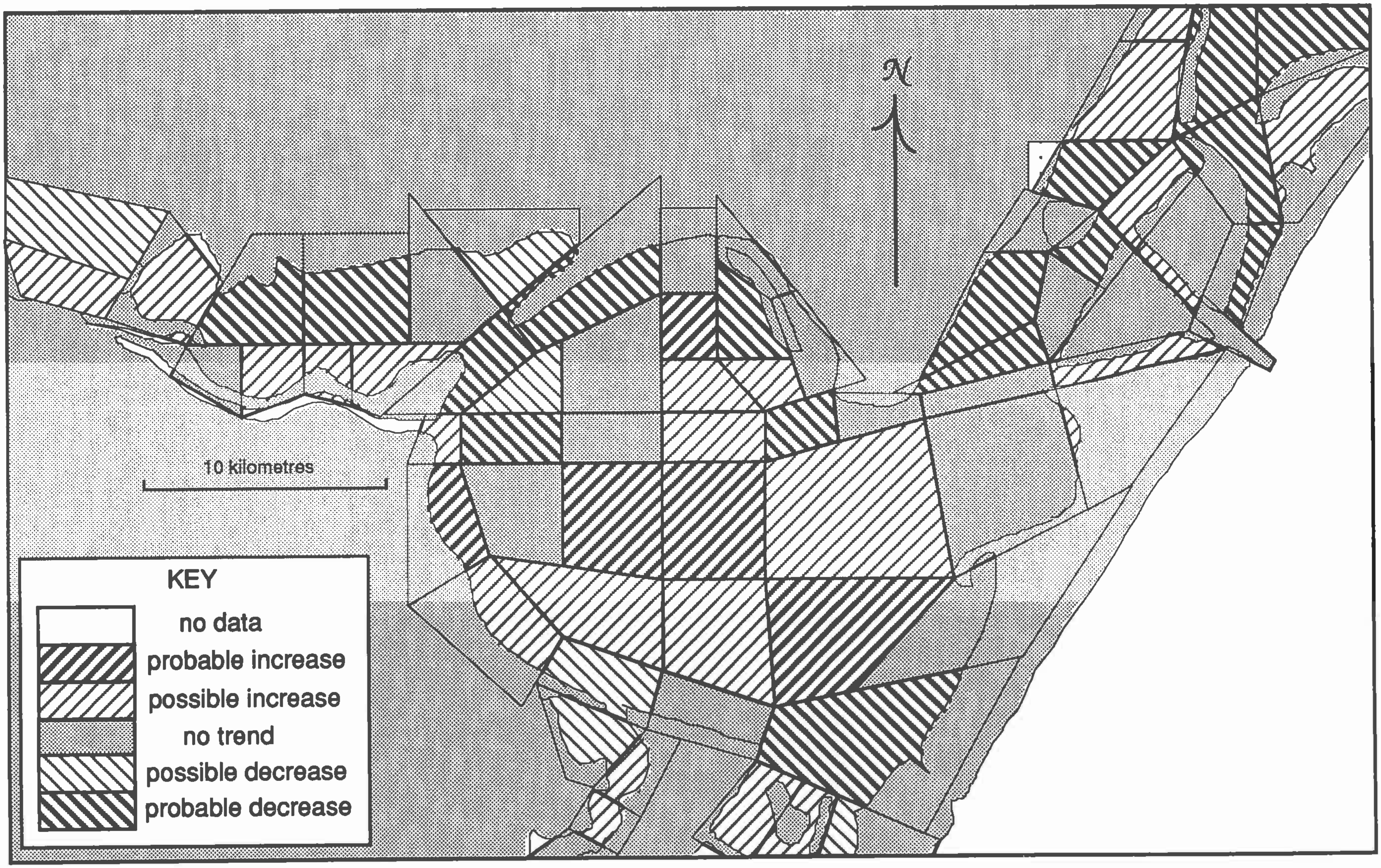

Figure 6-82. WQDODEF in upper 1 m period-of-record trends for Corpus Christi system

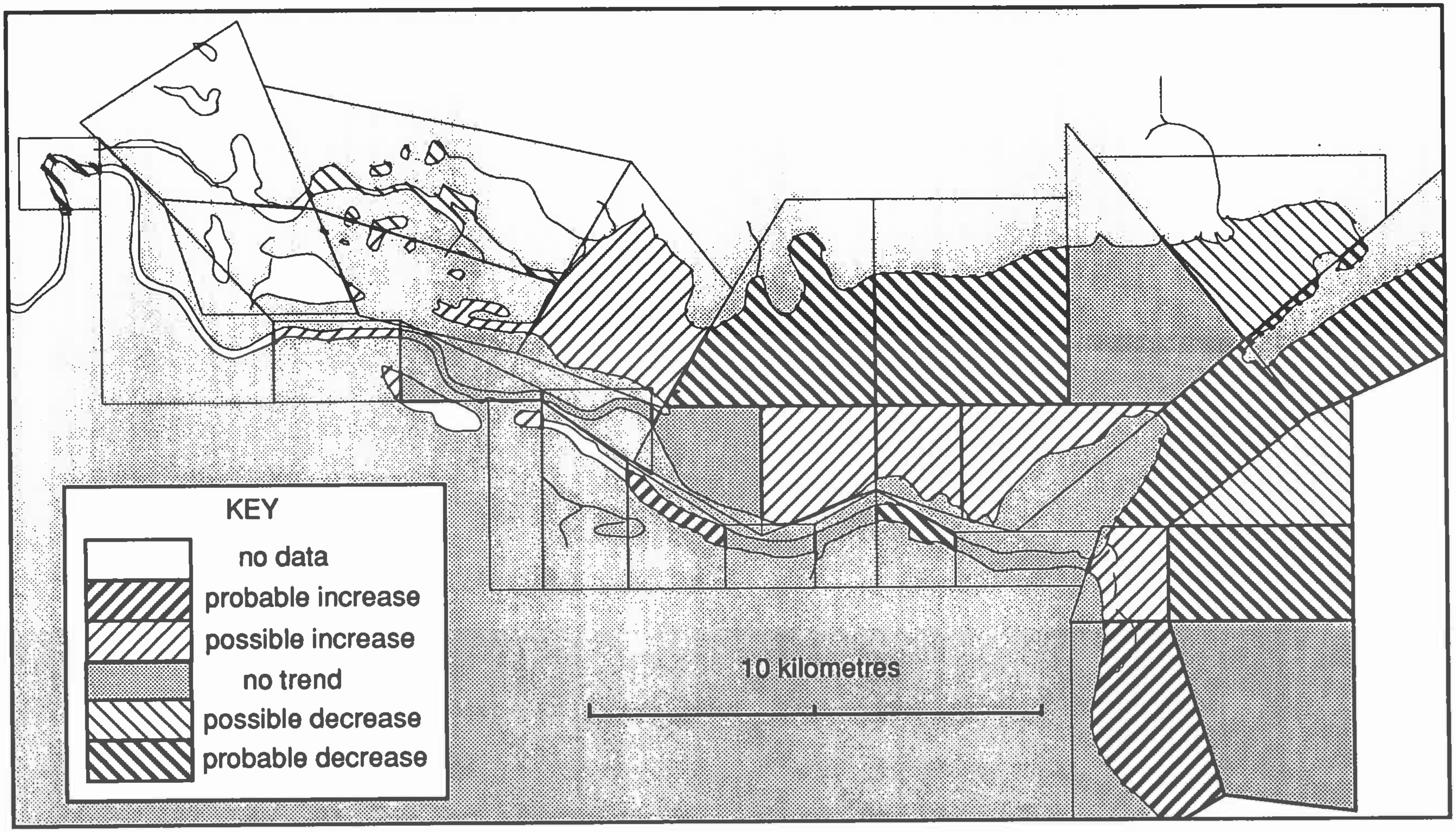

Figure 6-83. WQDODEF in upper 1 m period-of-record time trends for Nueces Bay region, including Inner Harbor

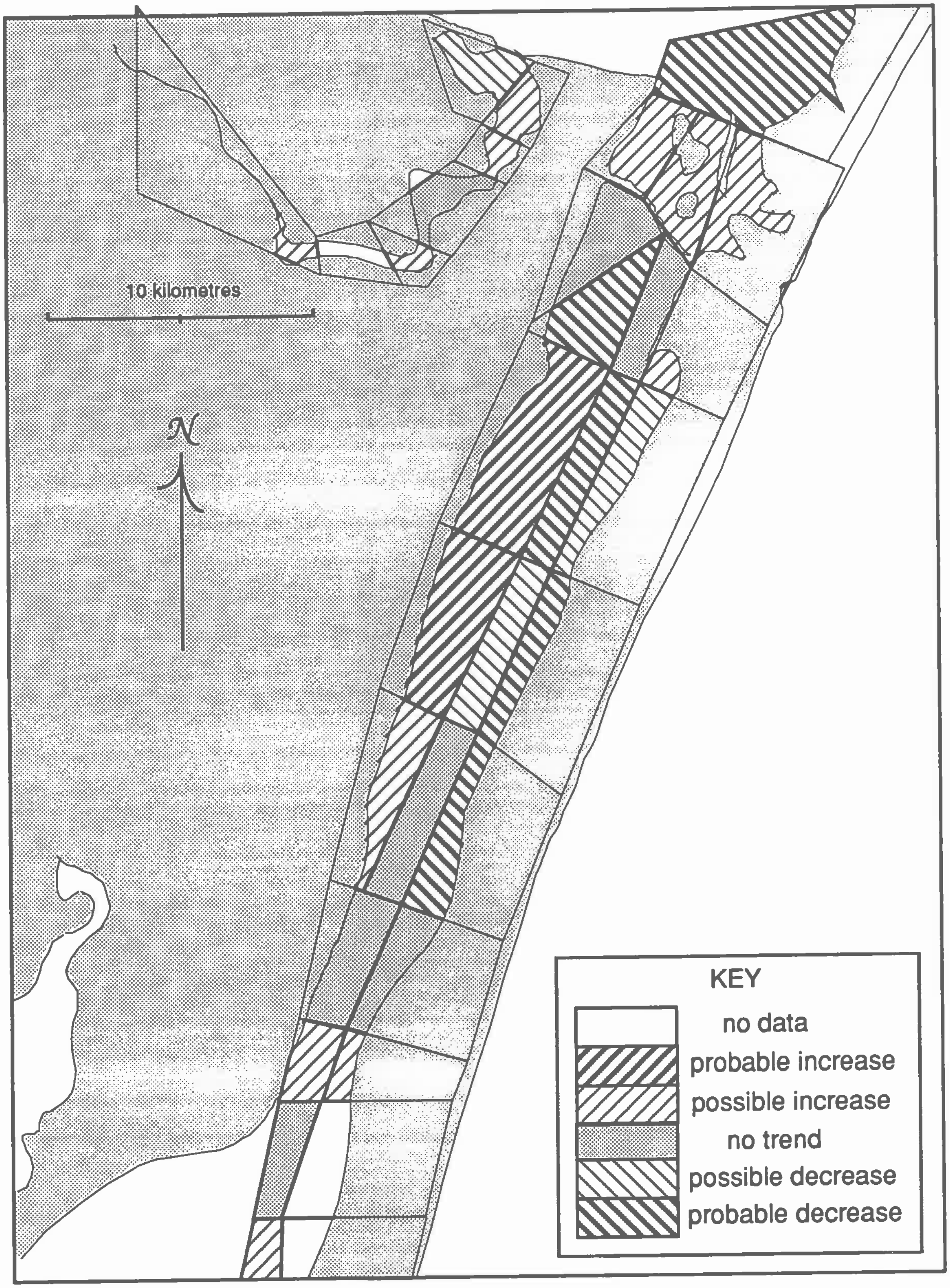

Figure 6-84. WQDODEF in upper 1 m period-of-record trends for Upper Laguna Madre

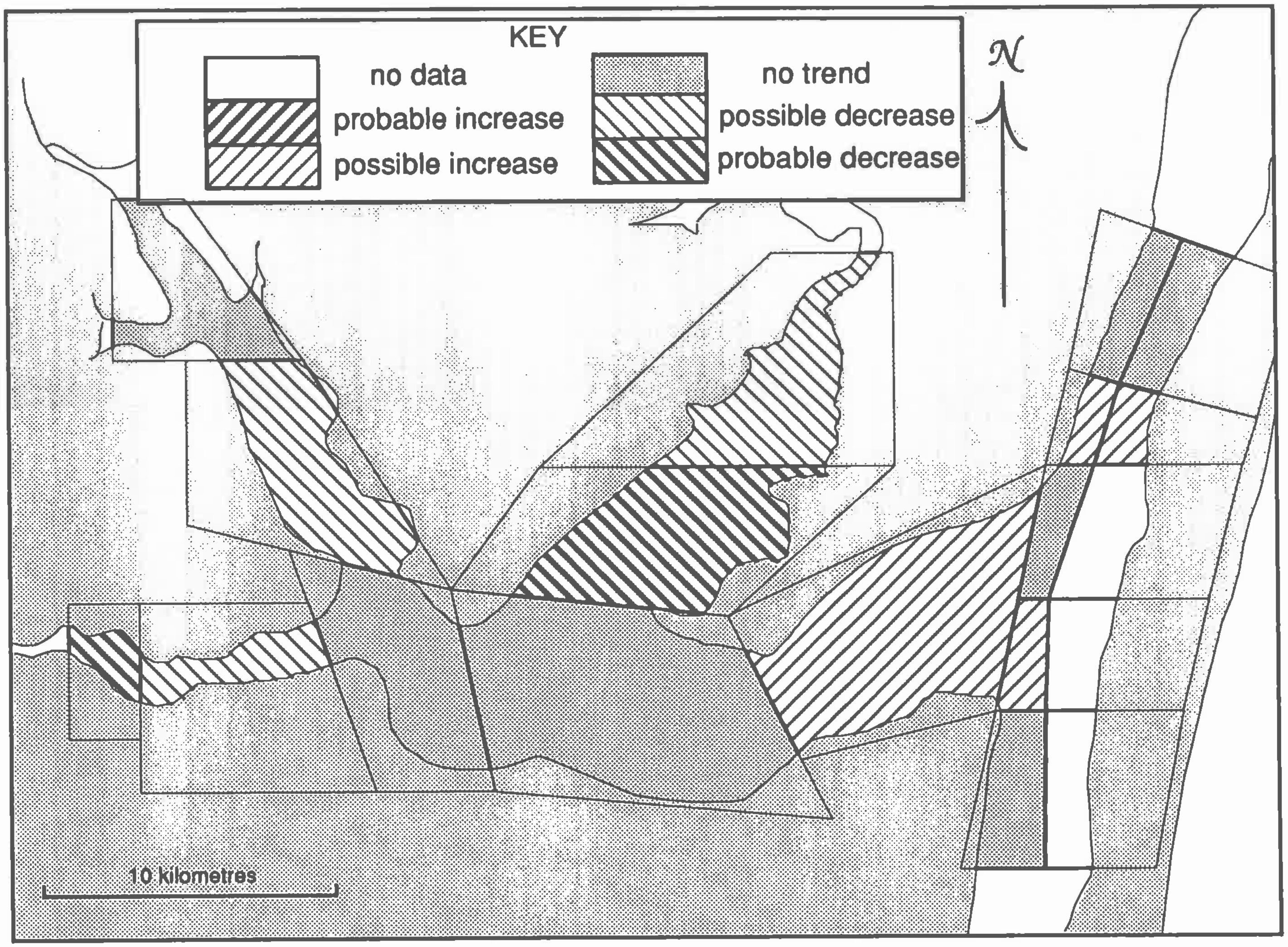

Figure 6-85. WQDODEF in upper 1 m period-of-record time trends for Baffin Bay region

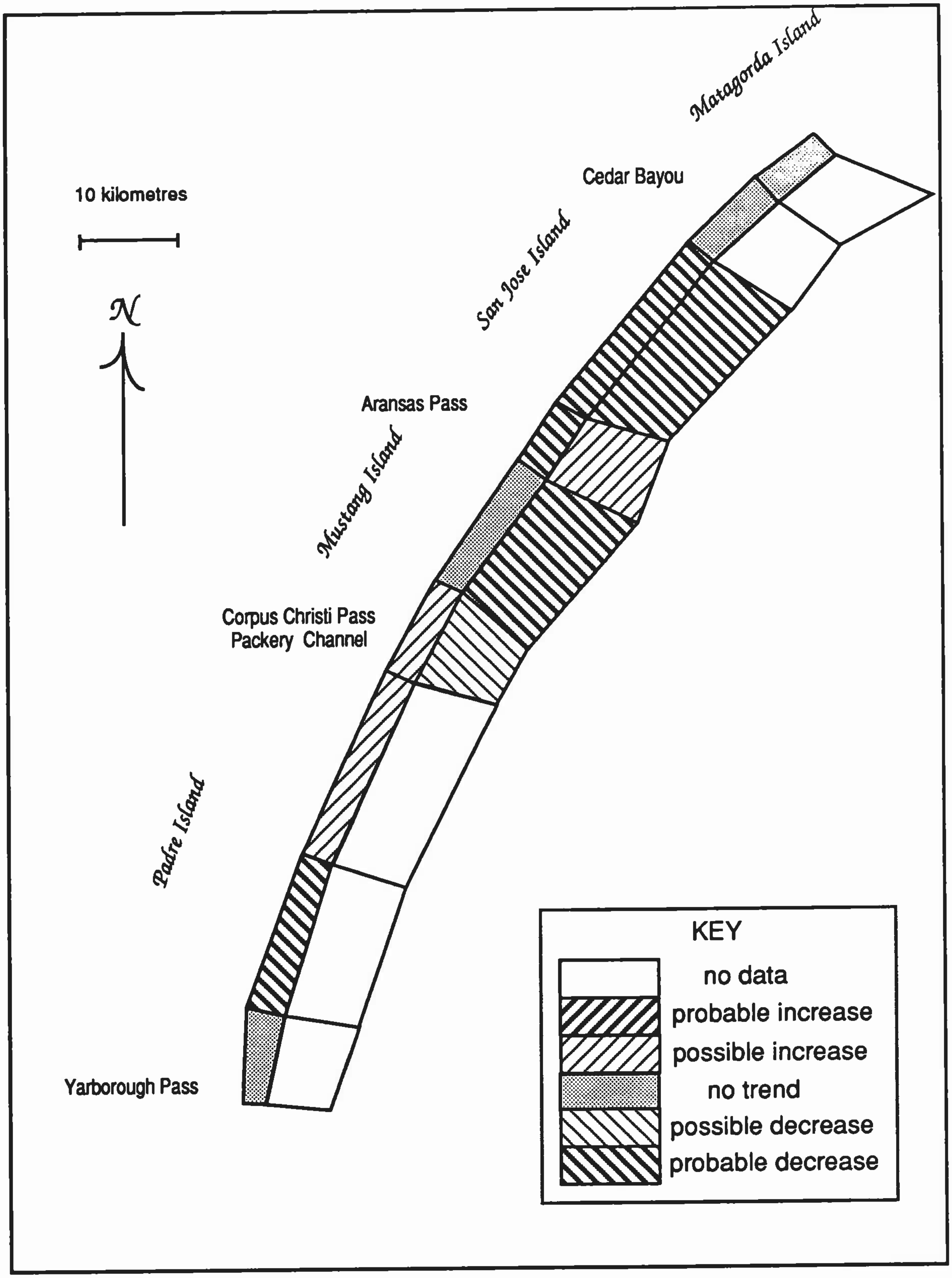

Figure 6-86. WQDODEF in upper 1 m period-of-record trends for Gulf of Mexico

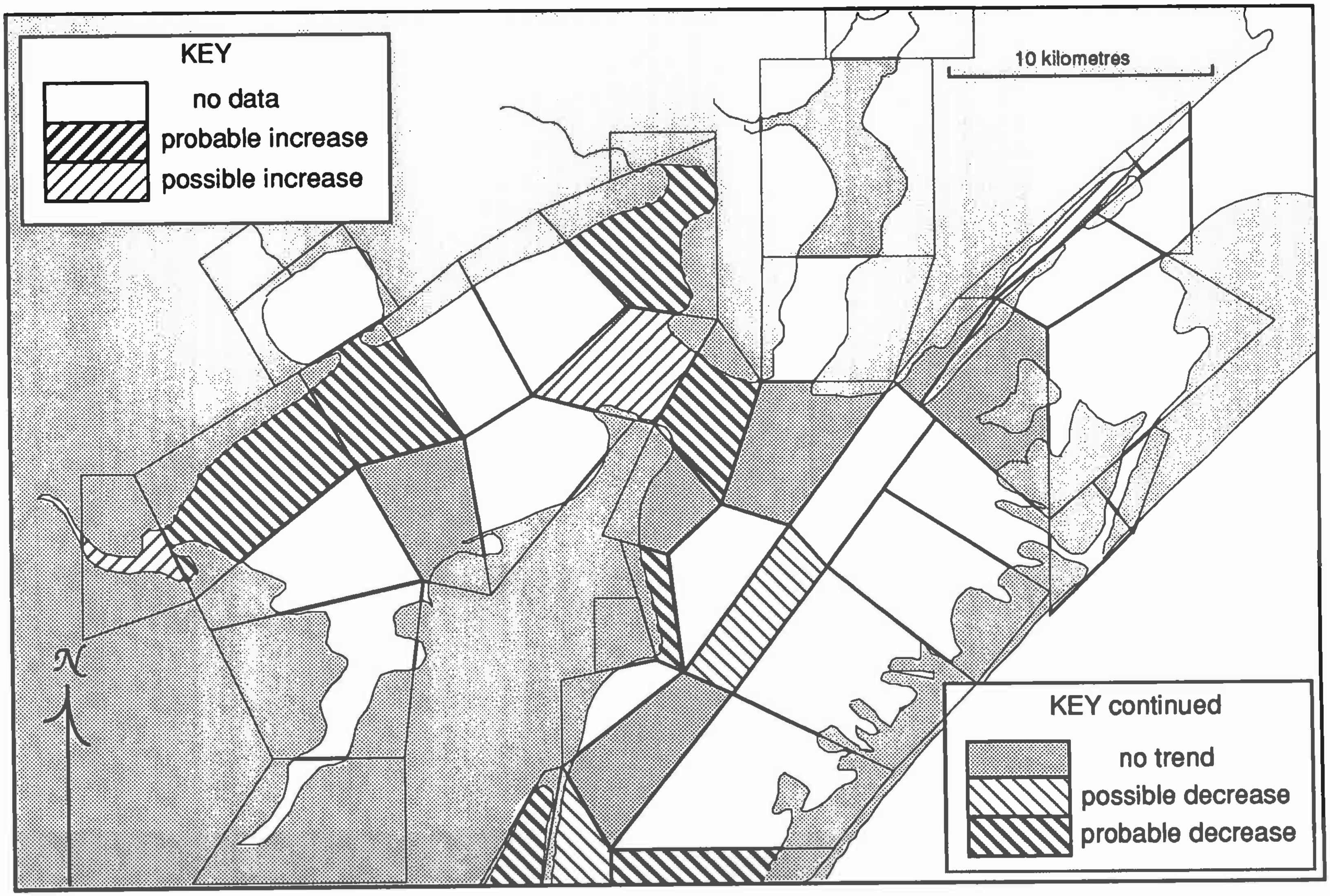

Figure 6-87. WQBOD5 period-of-record time trends for Aransas-Copano system

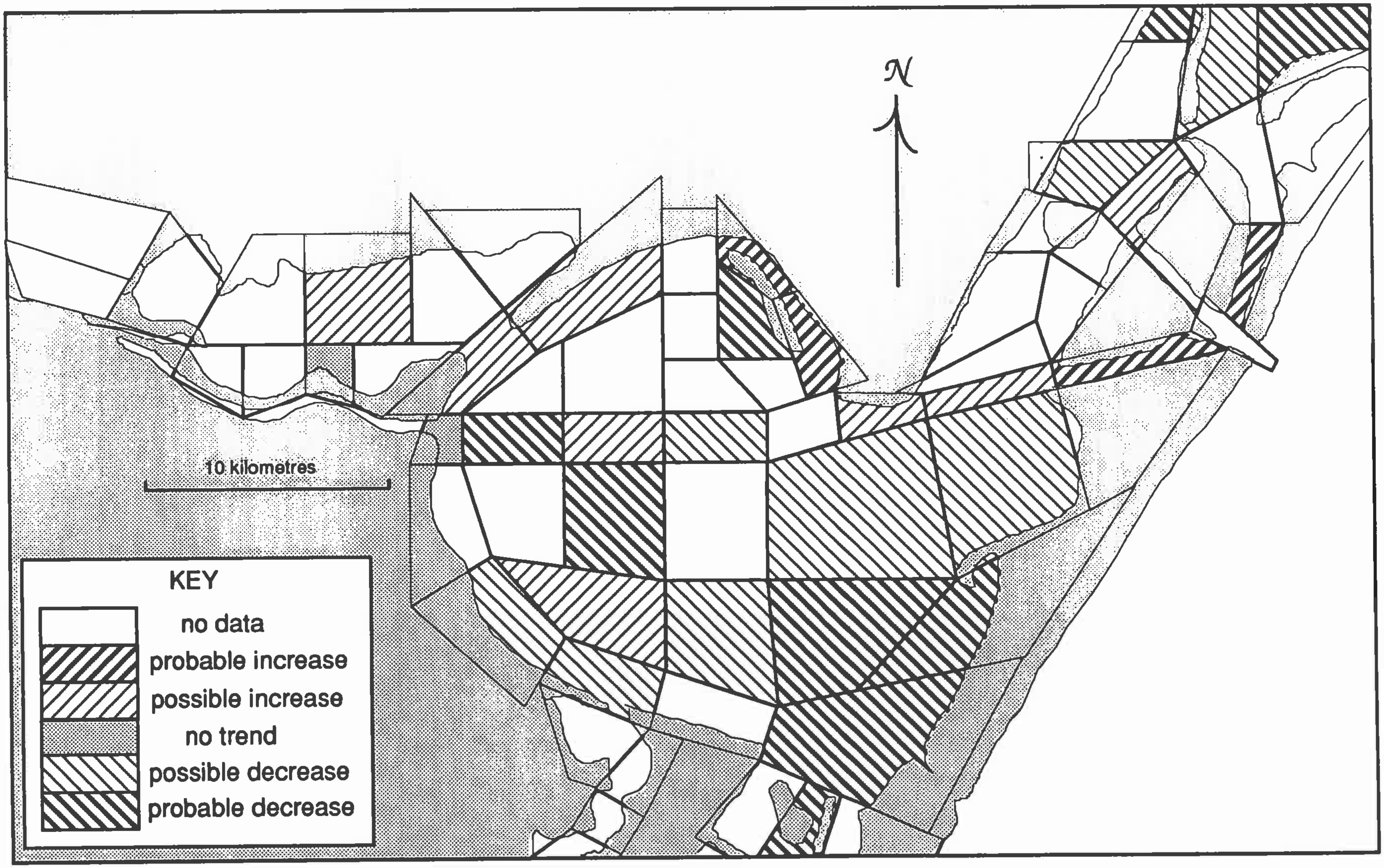

Figure 6-88. WQBOD5 period-of-record trends for Corpus Christi system

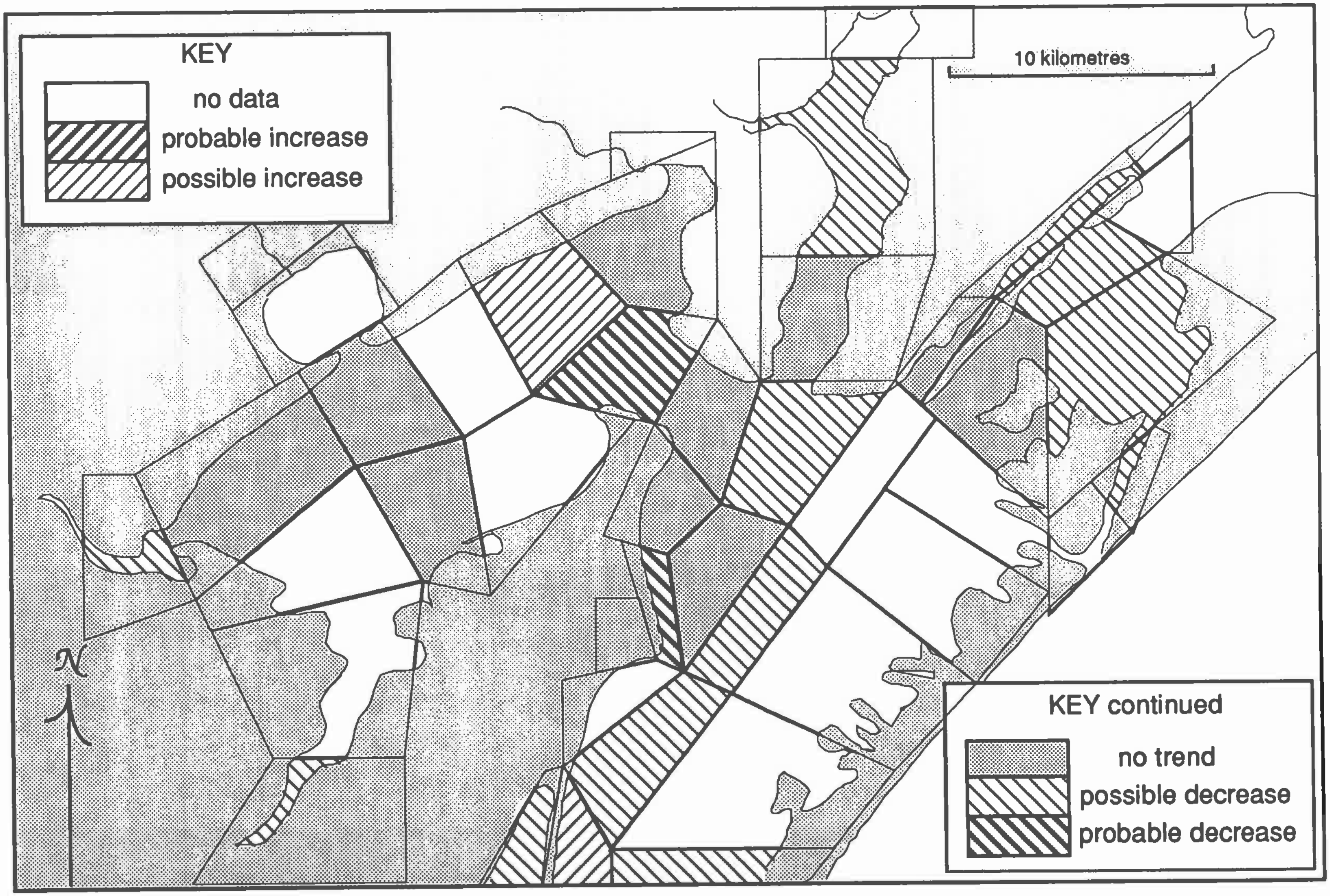

Figure 6-89. WQAMMN period-of-record time trends for Aransas-Copano system

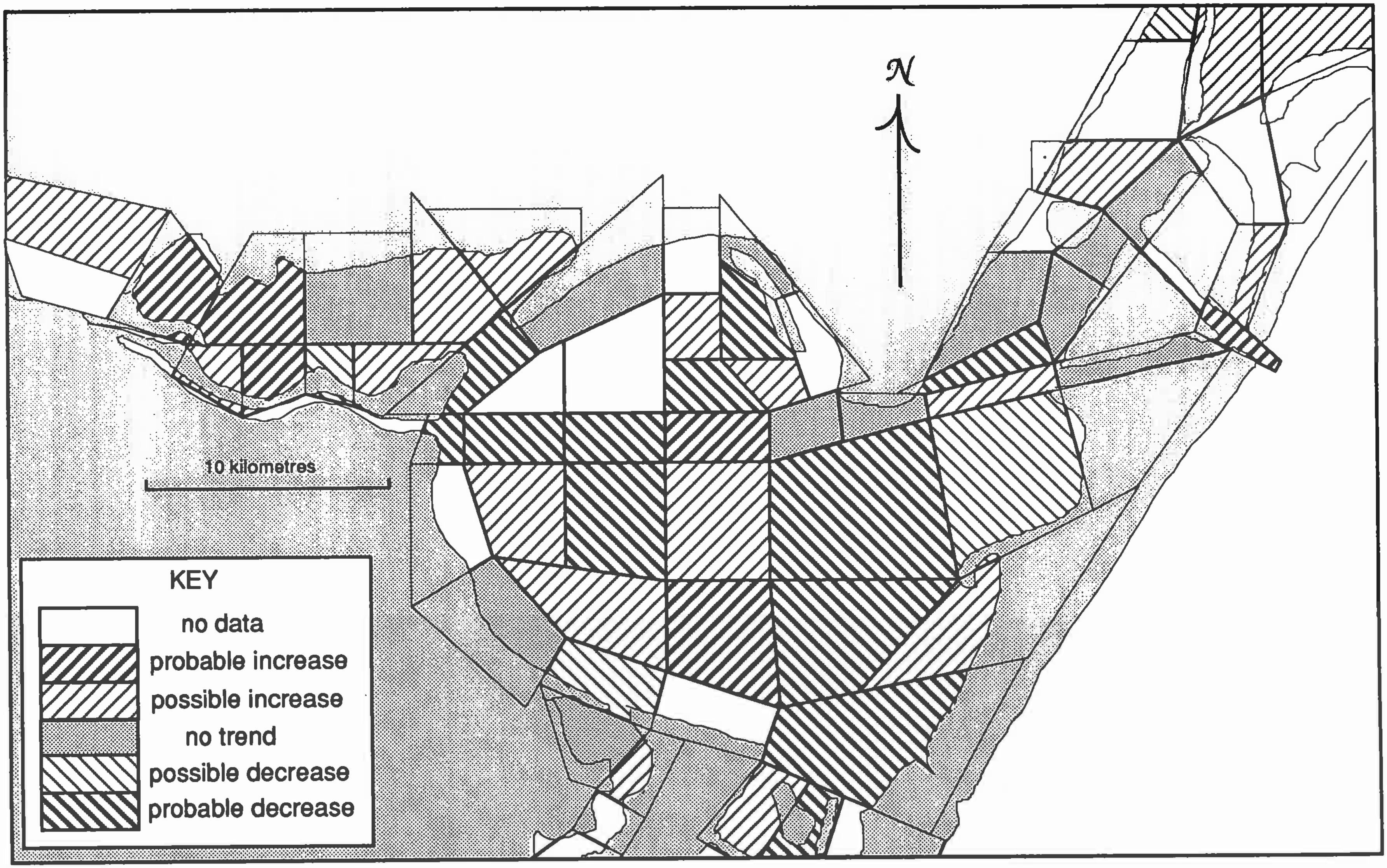

Figure 6-90. WQAMMN period-of-record trends for Corpus Christi system

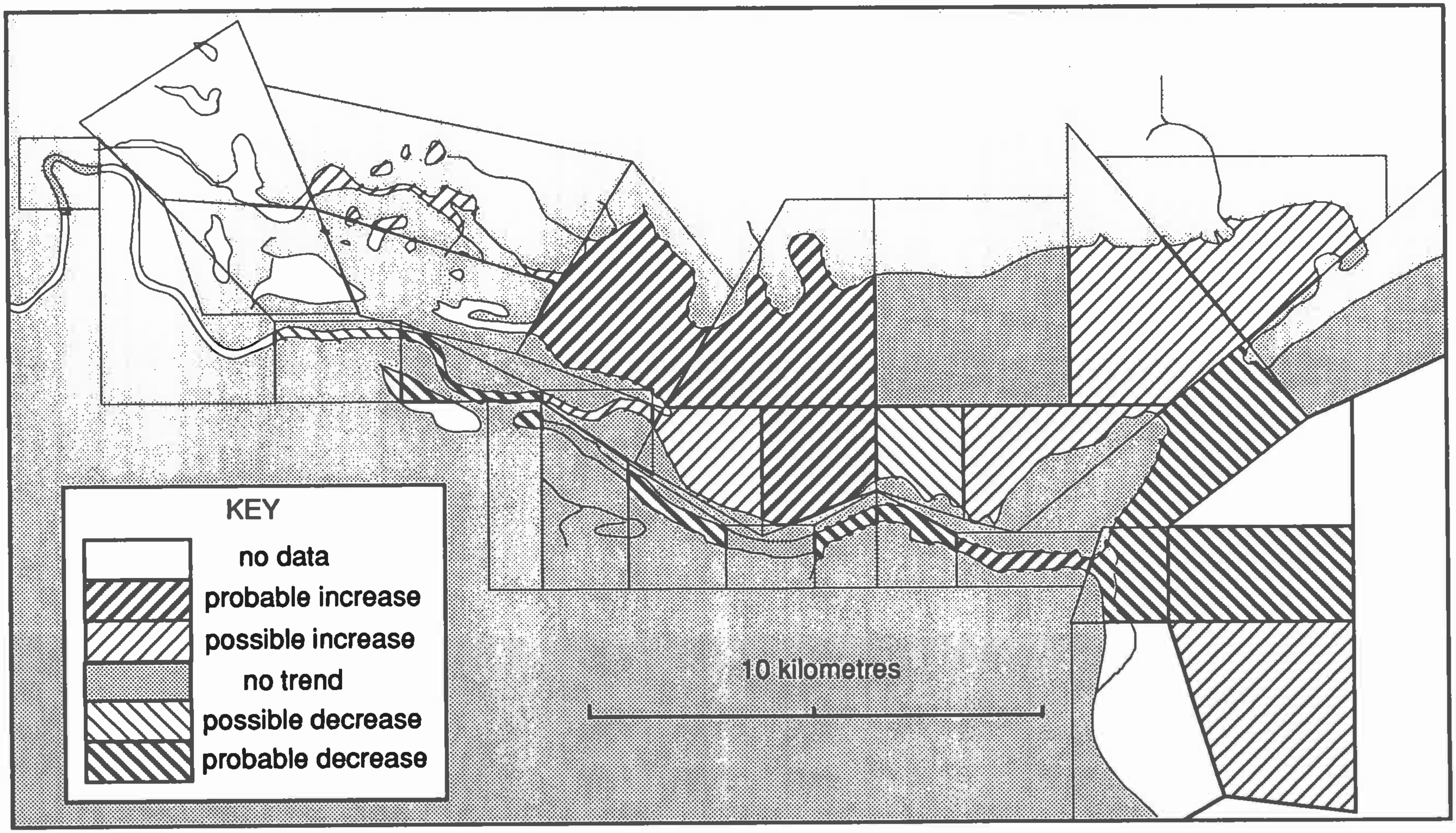

Figure 6-91. WQAMMN period-of-record time trends for Nueces Bay region, including Inner Harbor

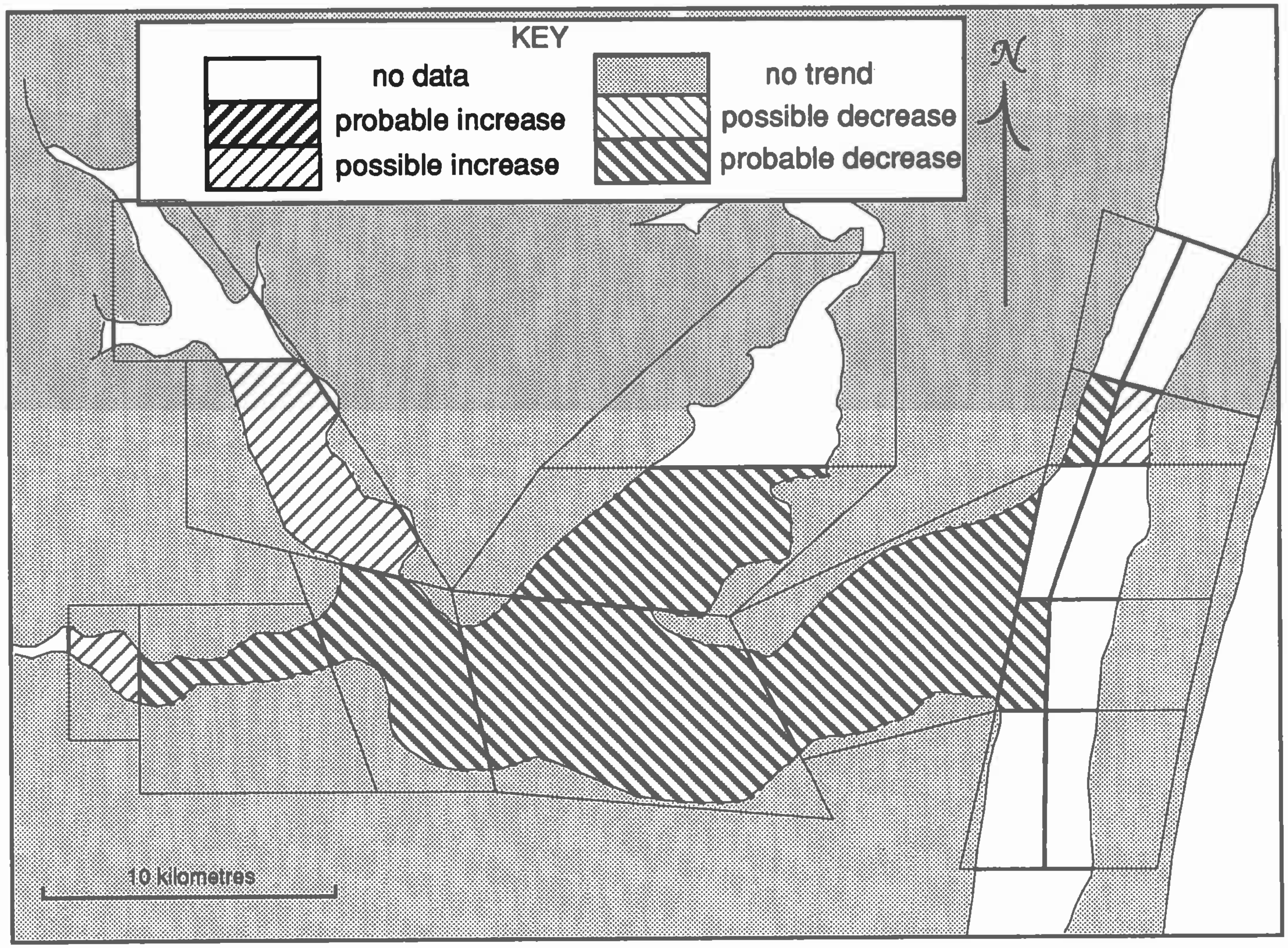

Figure 6-92. WQAMMN period-of-record time trends for Baffin Bay region

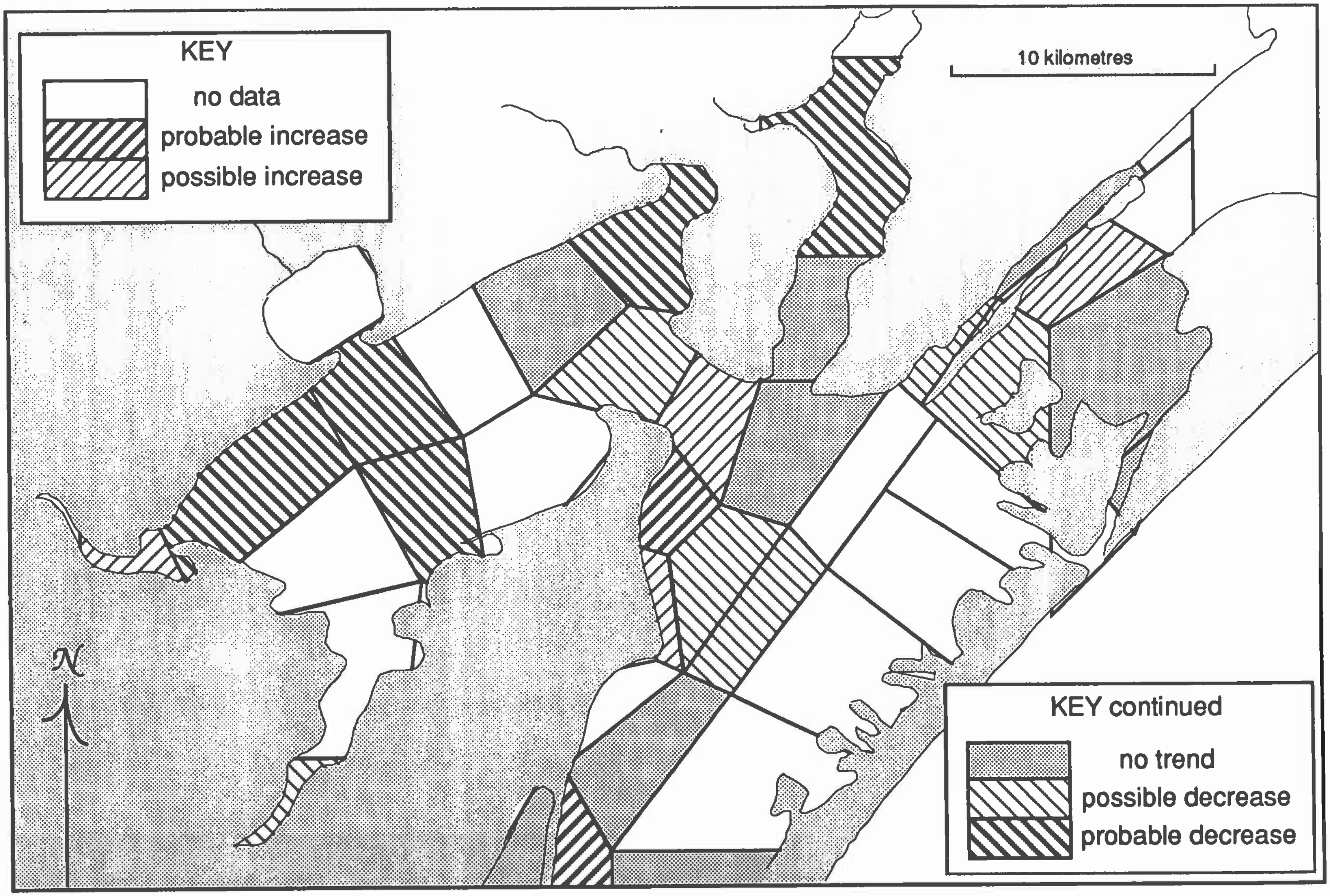

Figure 6-93. WQNO3N period-of-record time trends for Aransas-Copano system

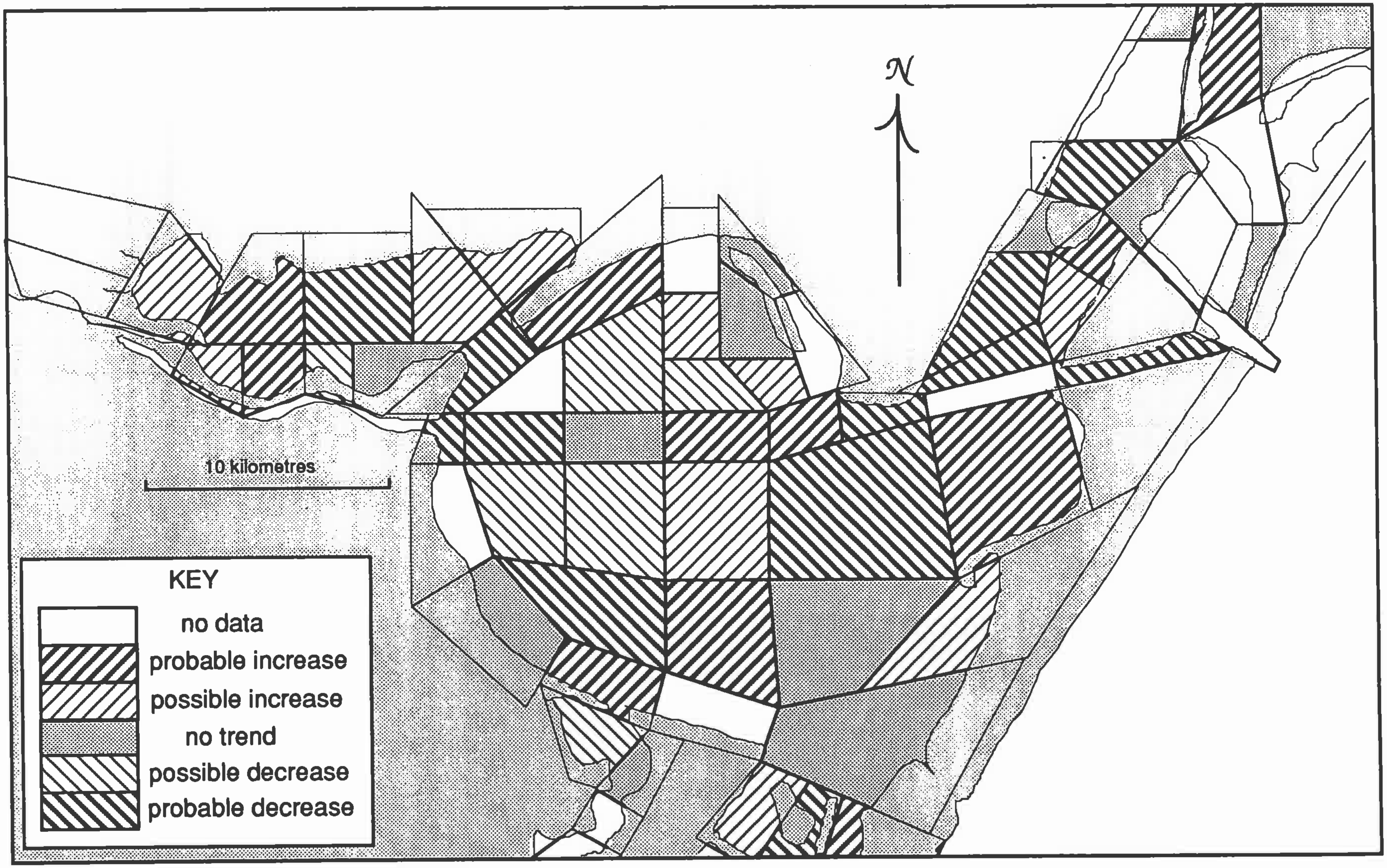

Figure 6-94. WQNO3N period-of-record trends for Corpus Christi system

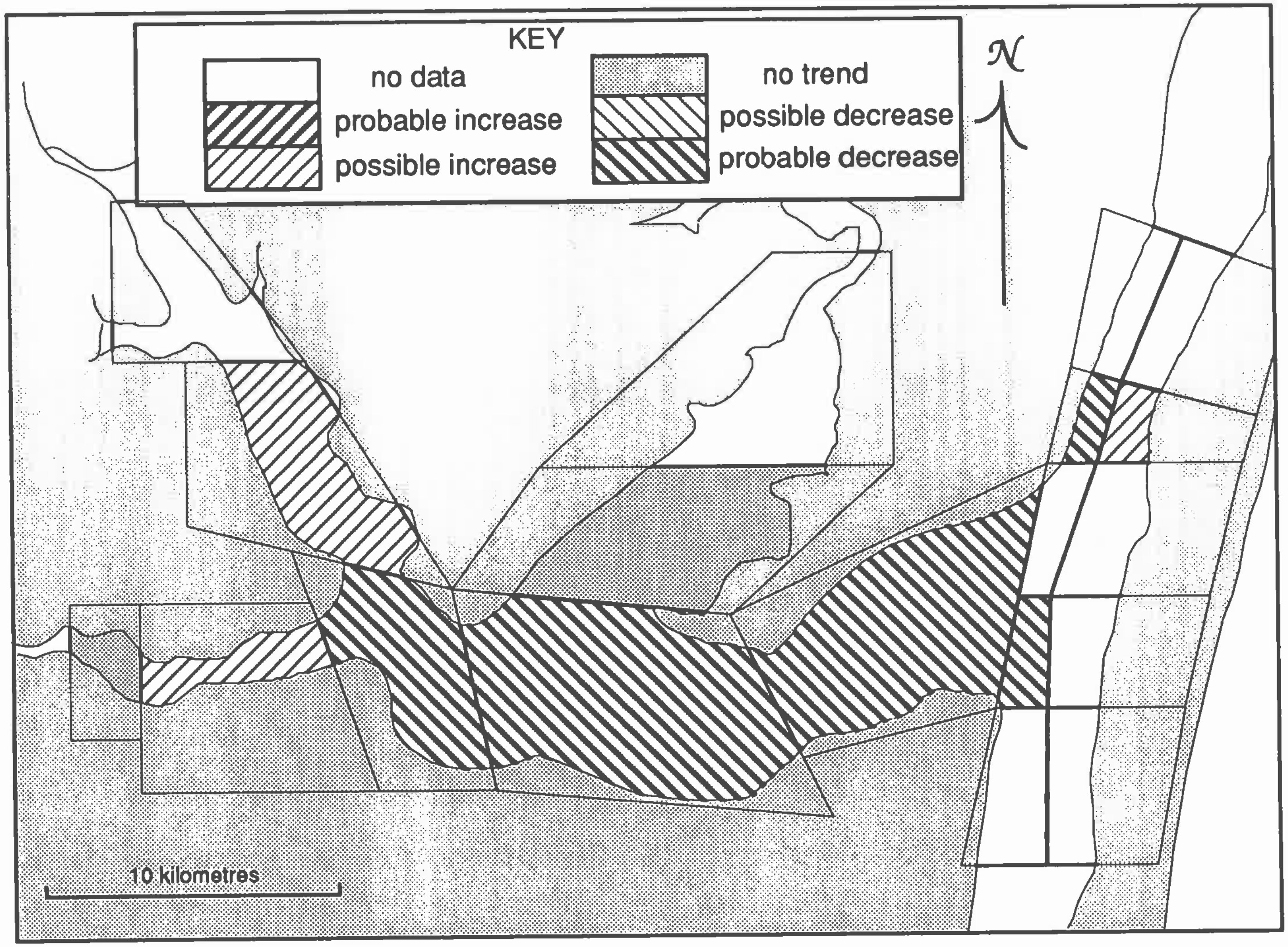

Figure 6-95. WQNO3N period-of-record time trends for Baffin Bay region

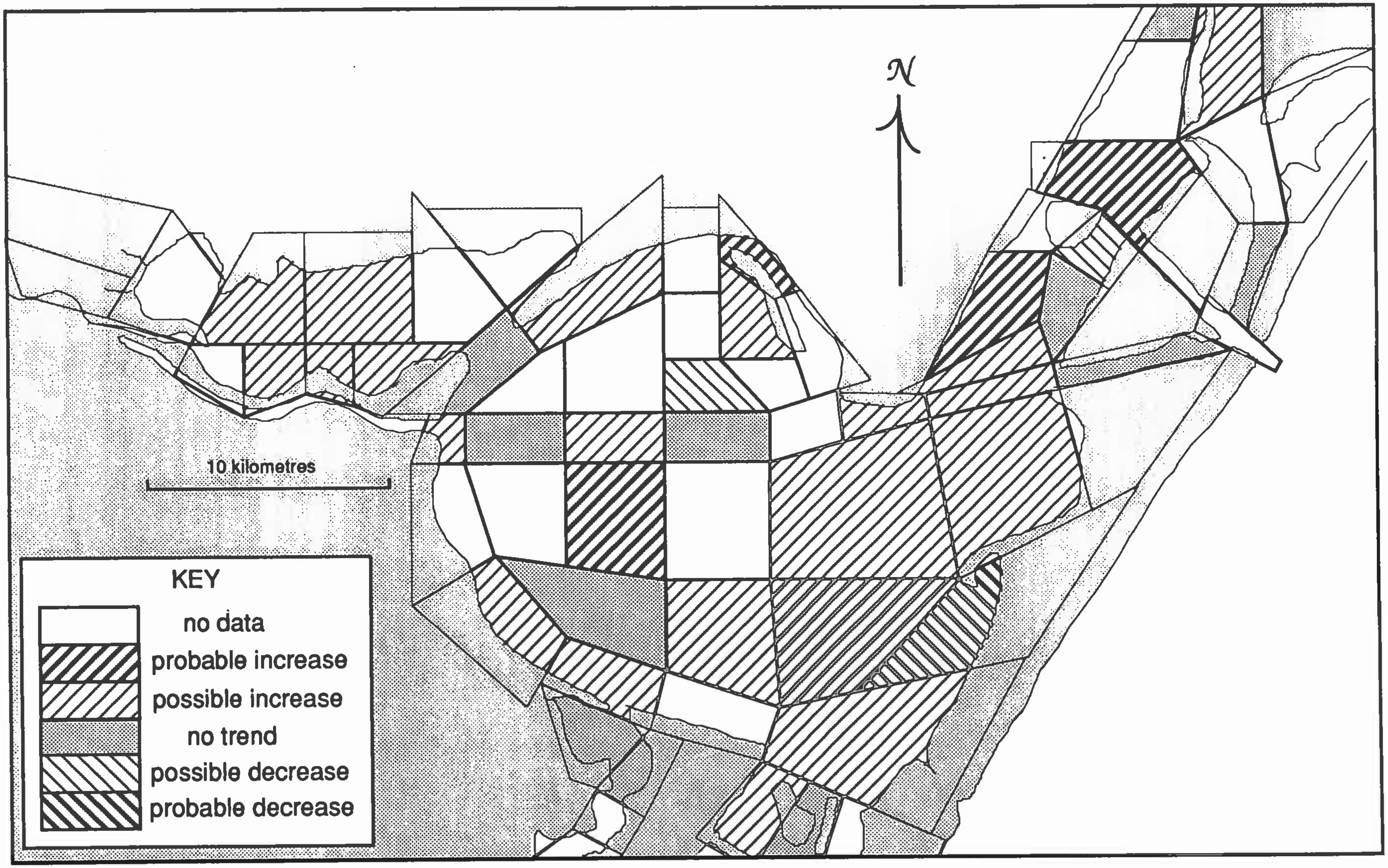

Figure 6-96. WQTOTP period-of-record trends for Corpus Christi system

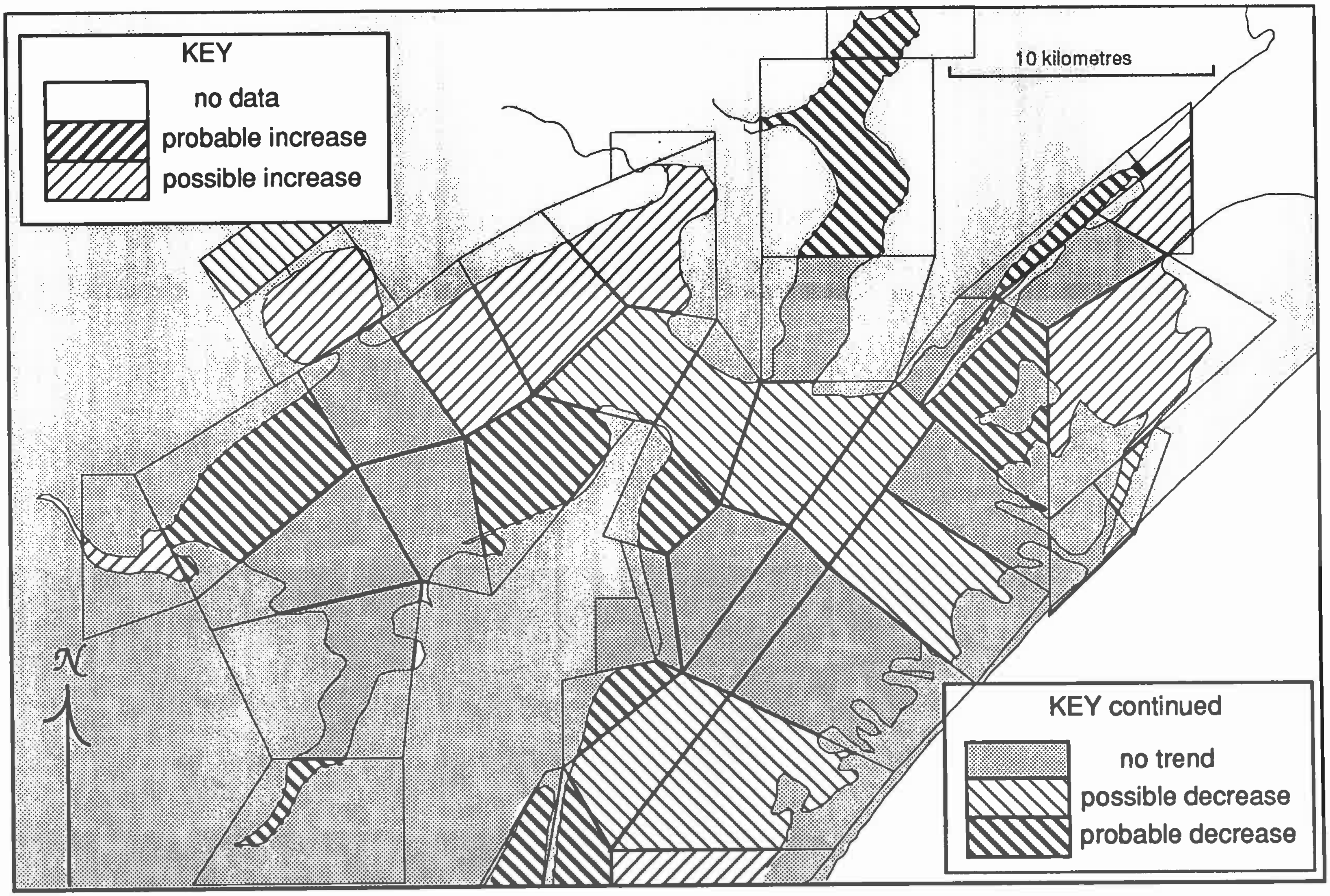

Figure 6-97. WQXTSS period-of-record time trends for Aransas-Copano system

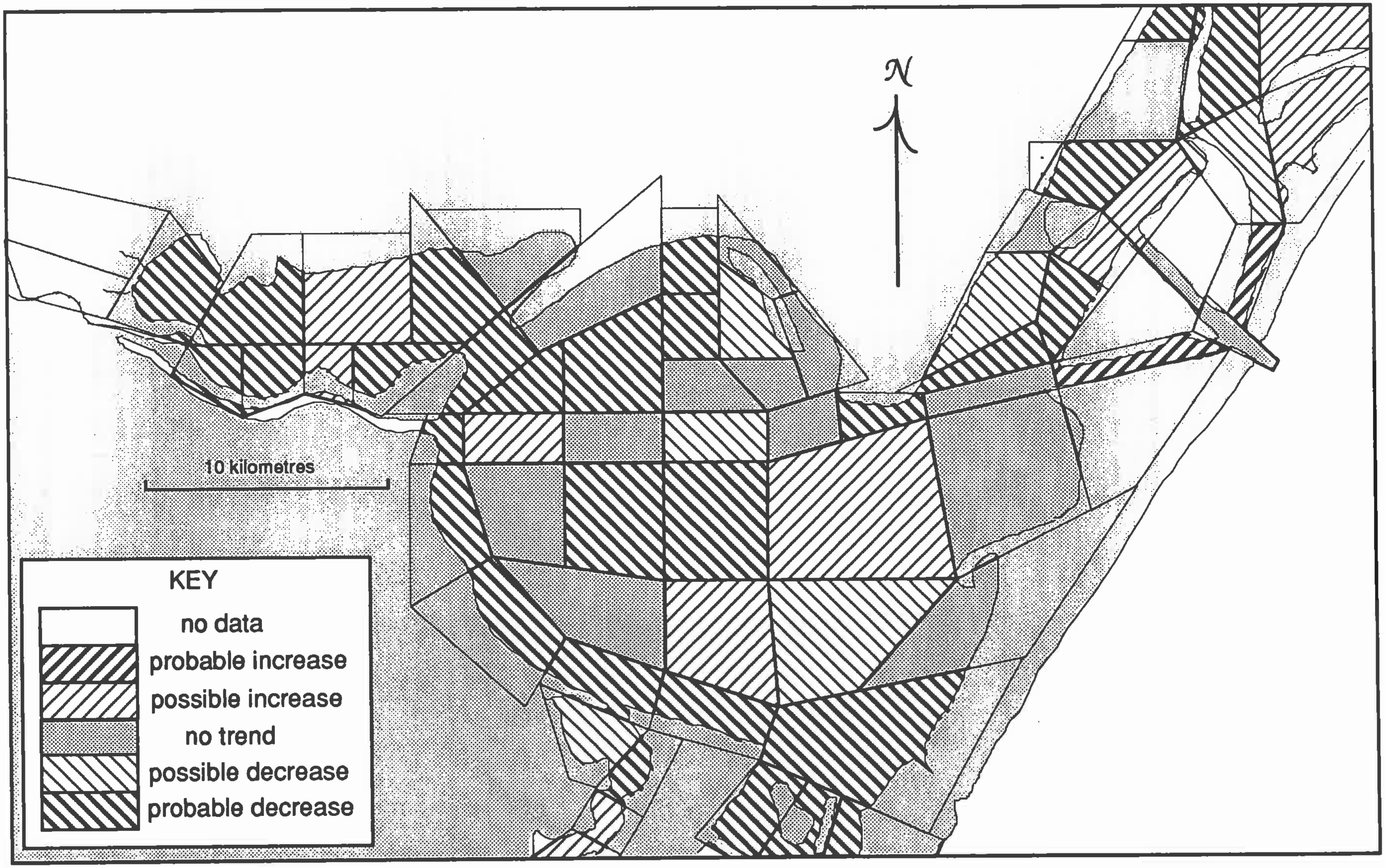

Figure 6-98. WQXTSS period-of-record trends for Corpus Christi system

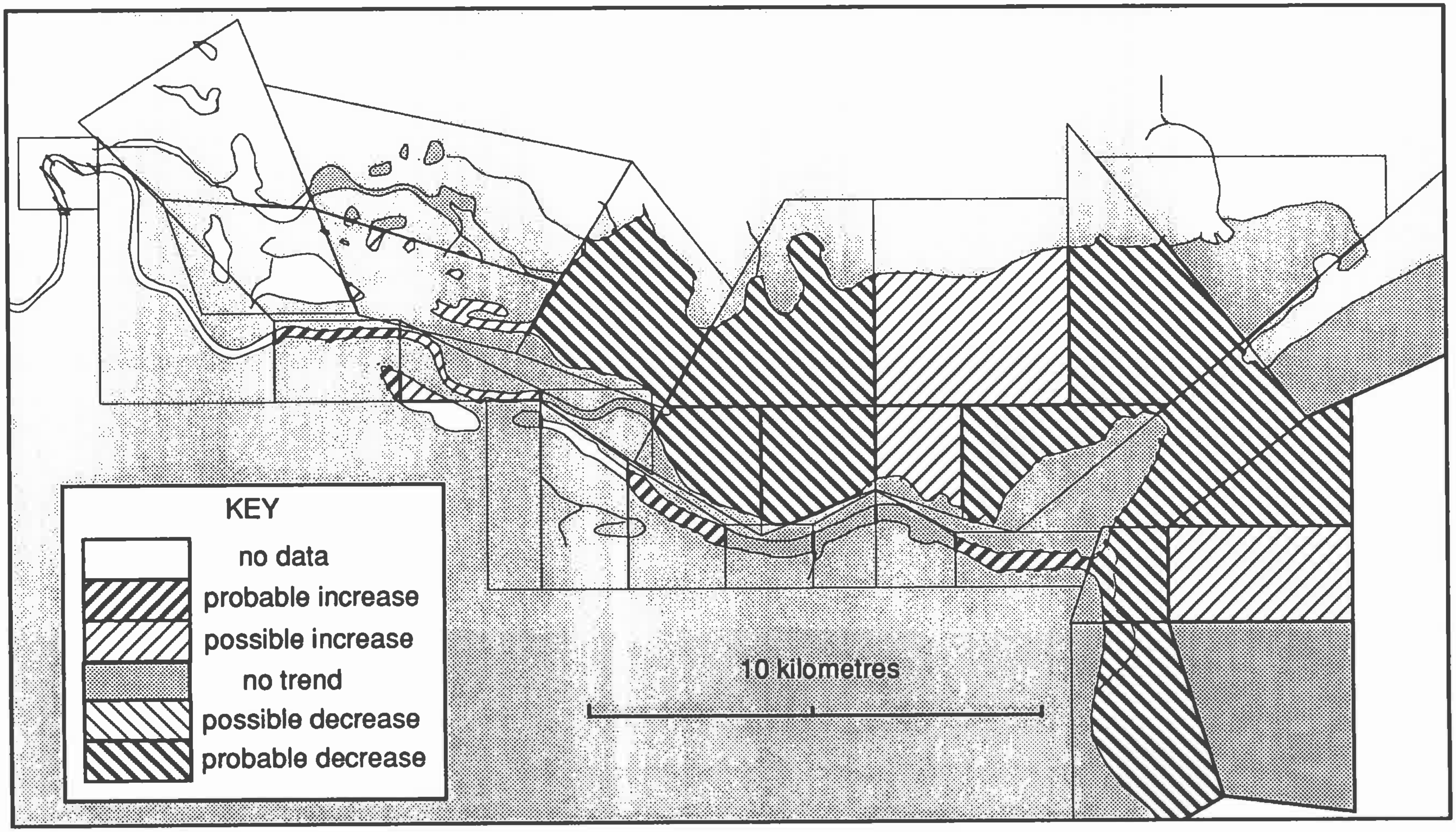

Figure 6-99. WQXTSS period-of-record time trends for Nueces Bay region, including Inner Harbor

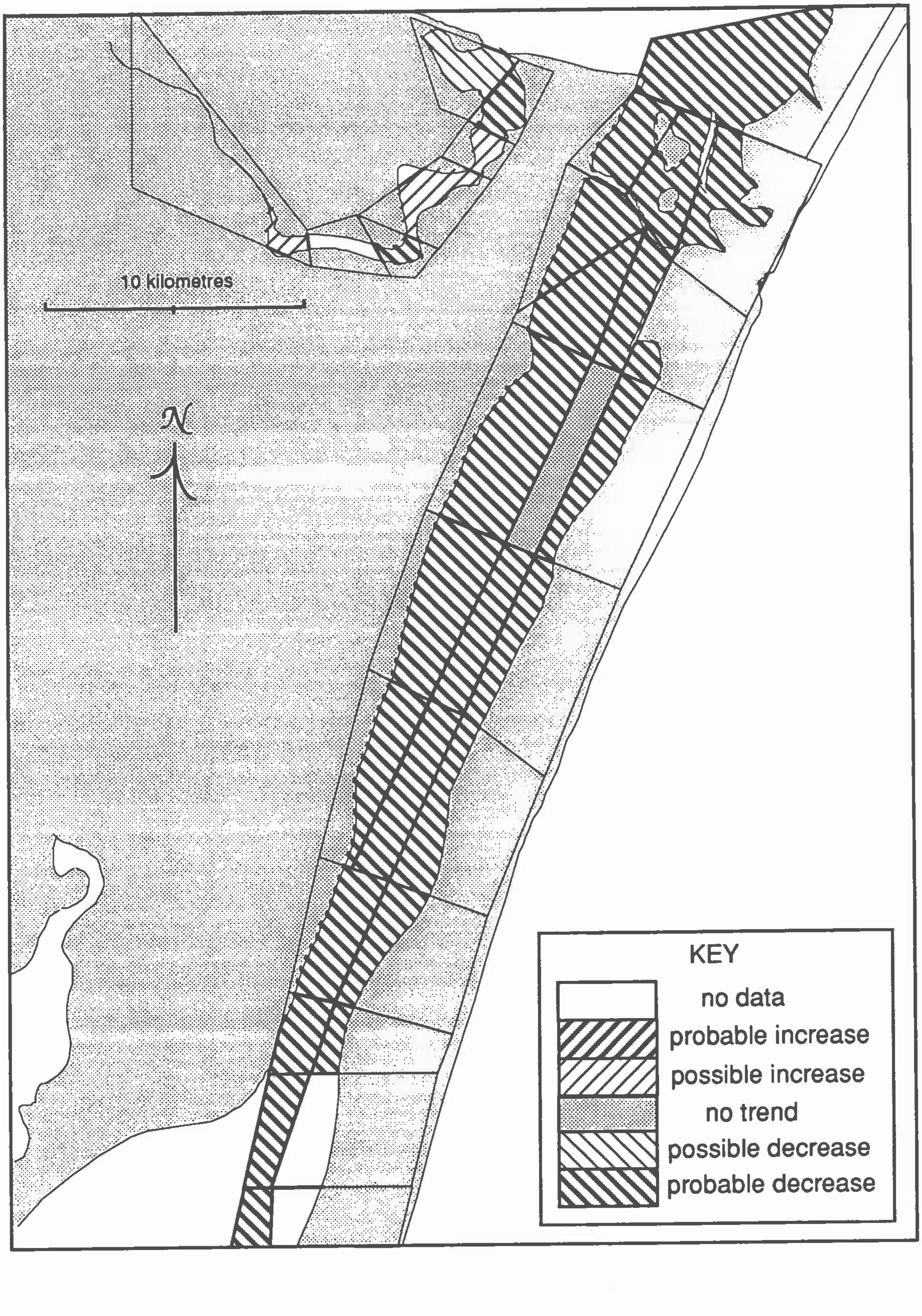

Figure 6-100. WQXTSS period-of-record trends for Upper Laguna Madre and Oso Bay

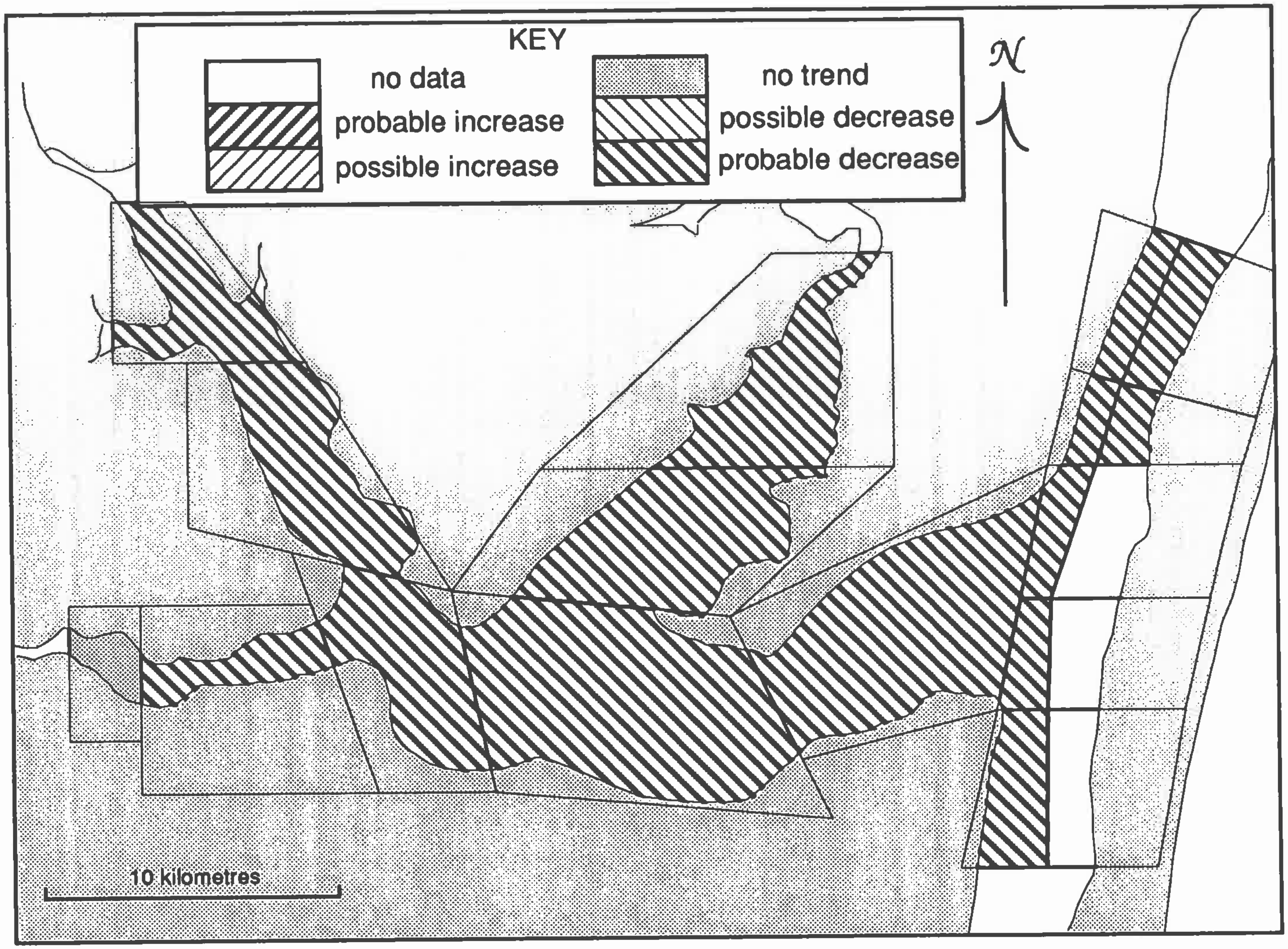

Figure 6-101. WQXTSS period-of-record time trends for Baffin Bay region

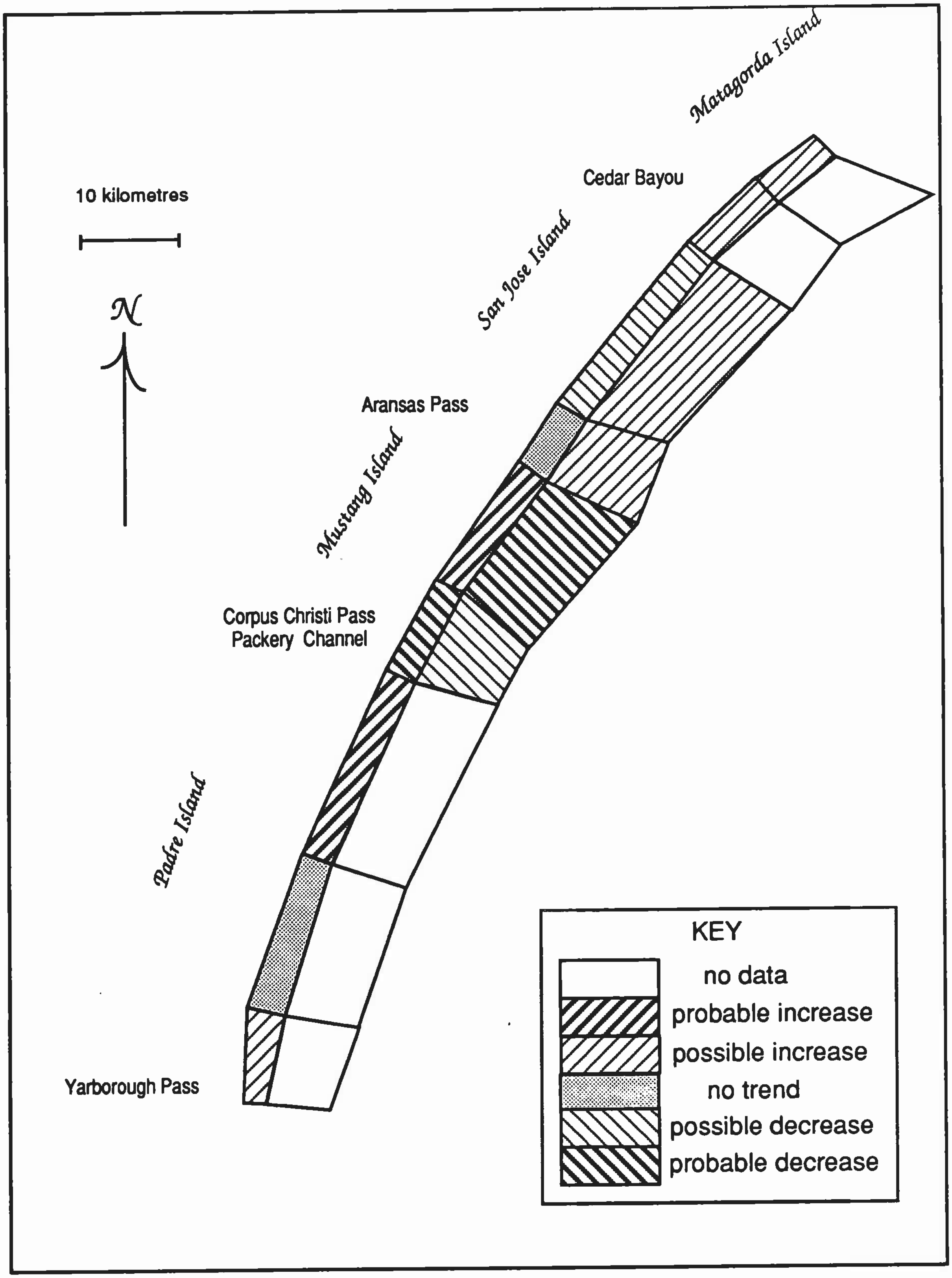

Figure 6-102. WQXTSS period-of-record trends for Gulf of Mexico

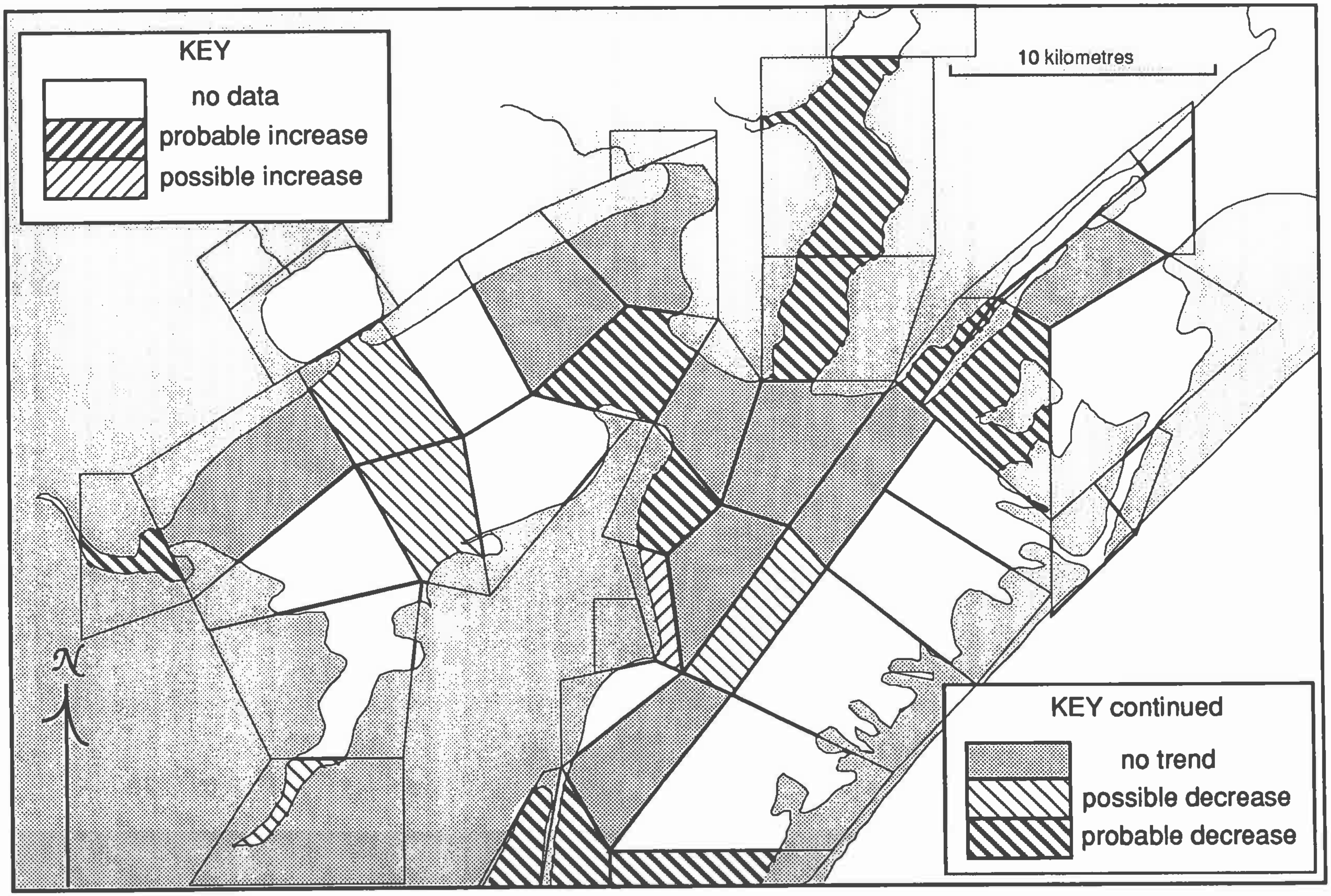

Figure 6-103. WQTOC period-of-record time trends for Aransas-Copano system

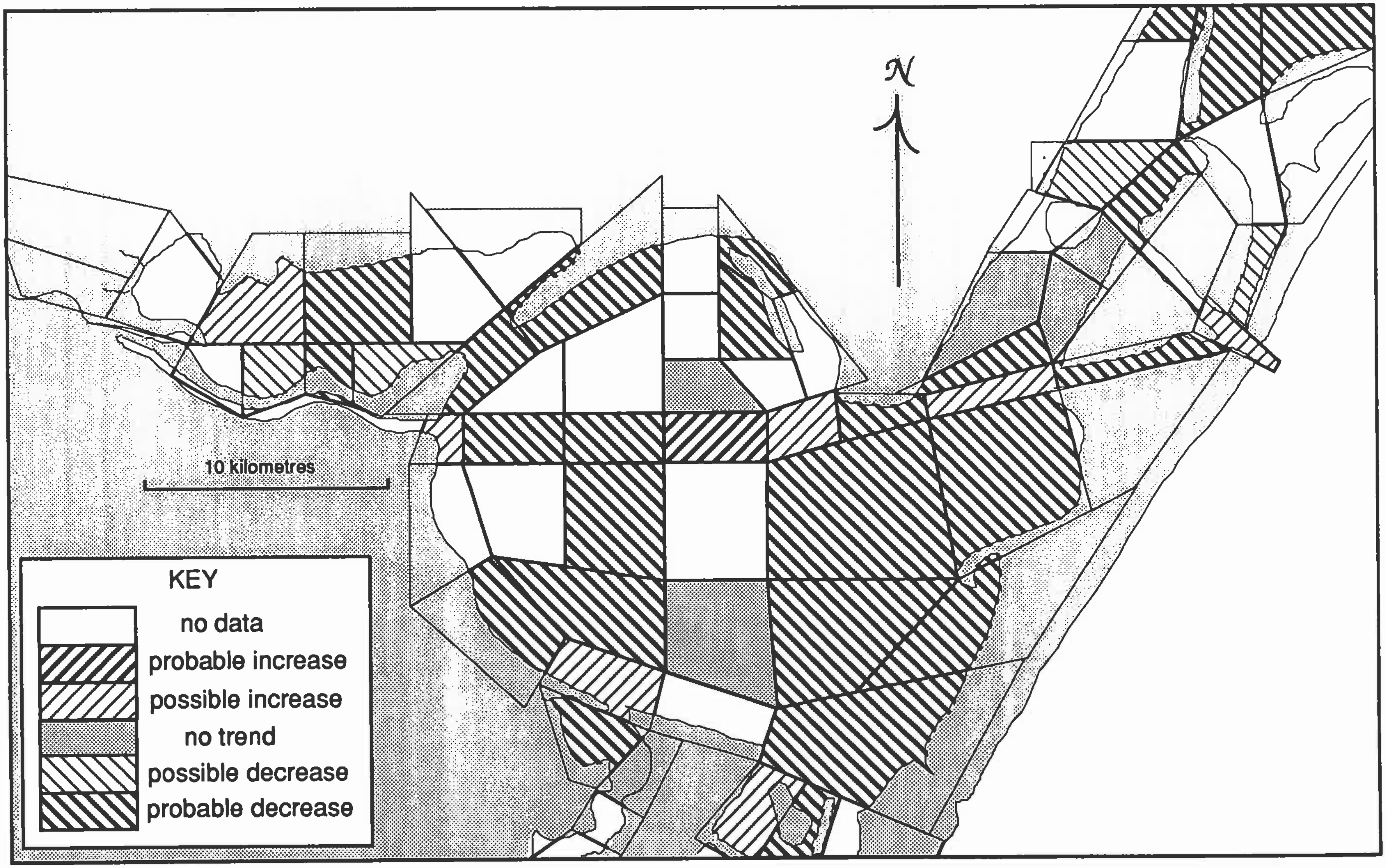

Figure 6-104. WQTOC period-of-record trends for Corpus Christi system

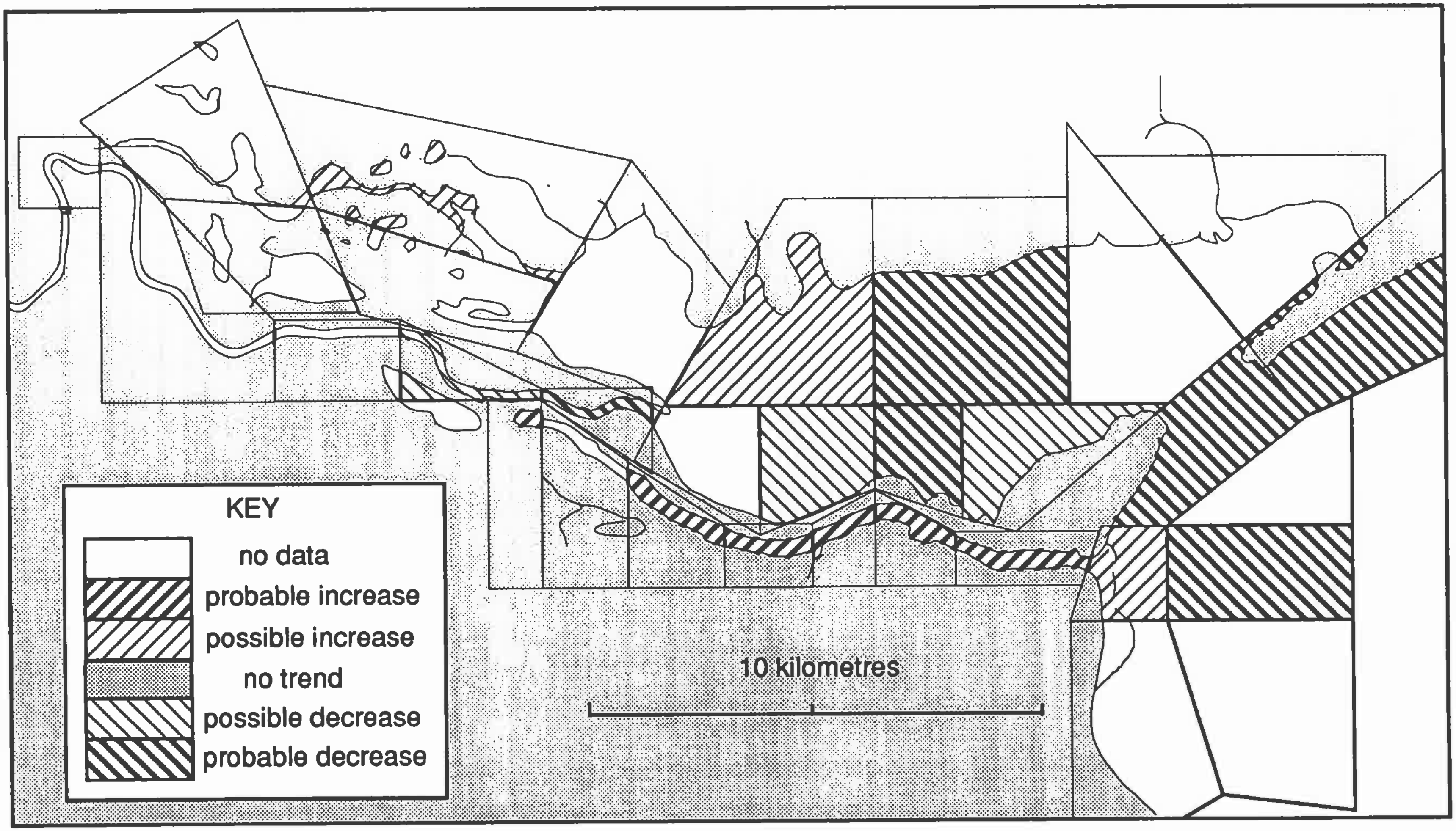

Figure 6-105. WQTOC period-of-record time trends for Nueces Bay region, including Inner Harbor

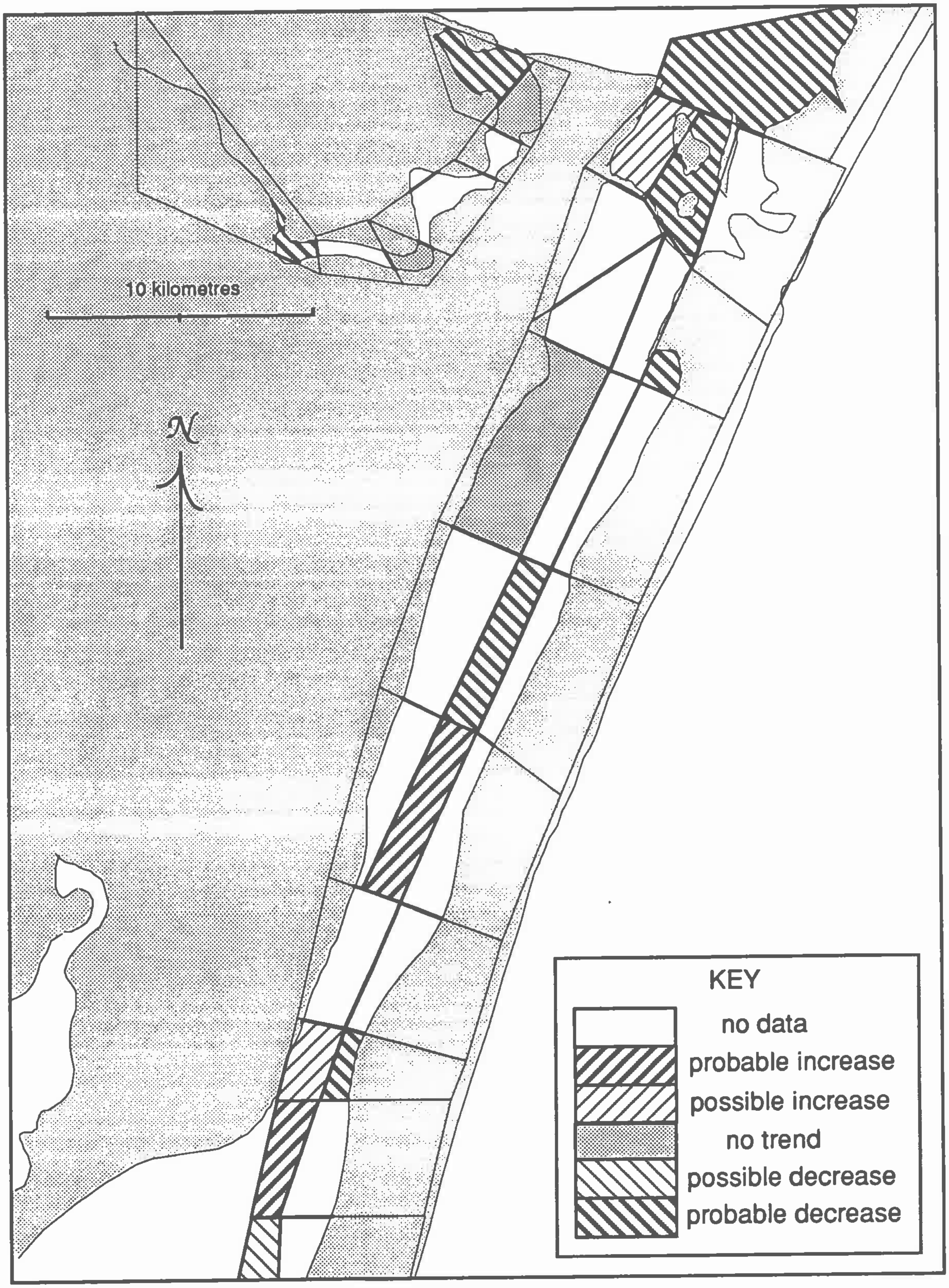

Figure 6-106. WQTOC period-of-record trends for Upper Laguna Madre and Oso Bay

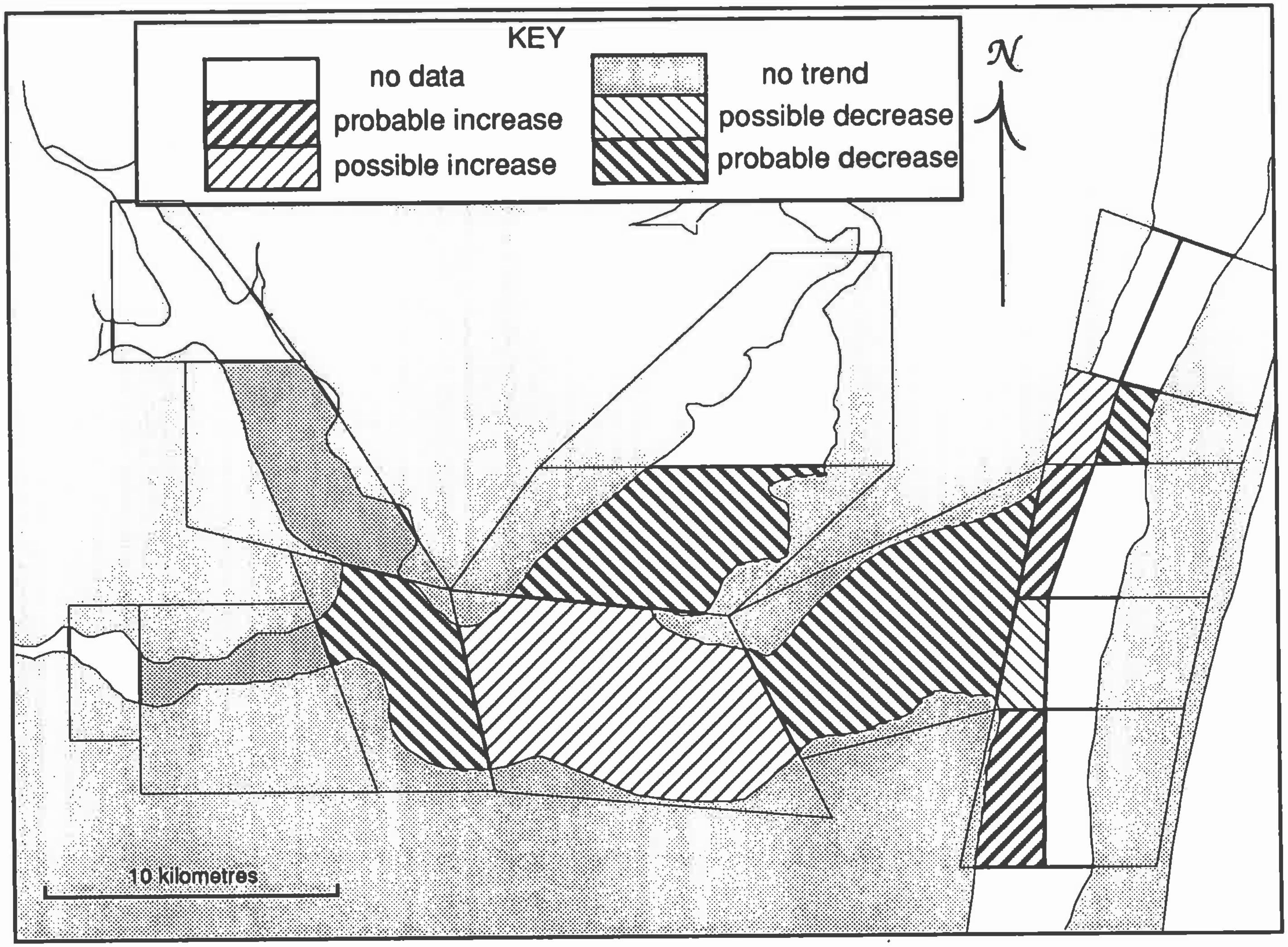

Figure 6-107. WQTOC period-of-record time trends for Baffin Bay region

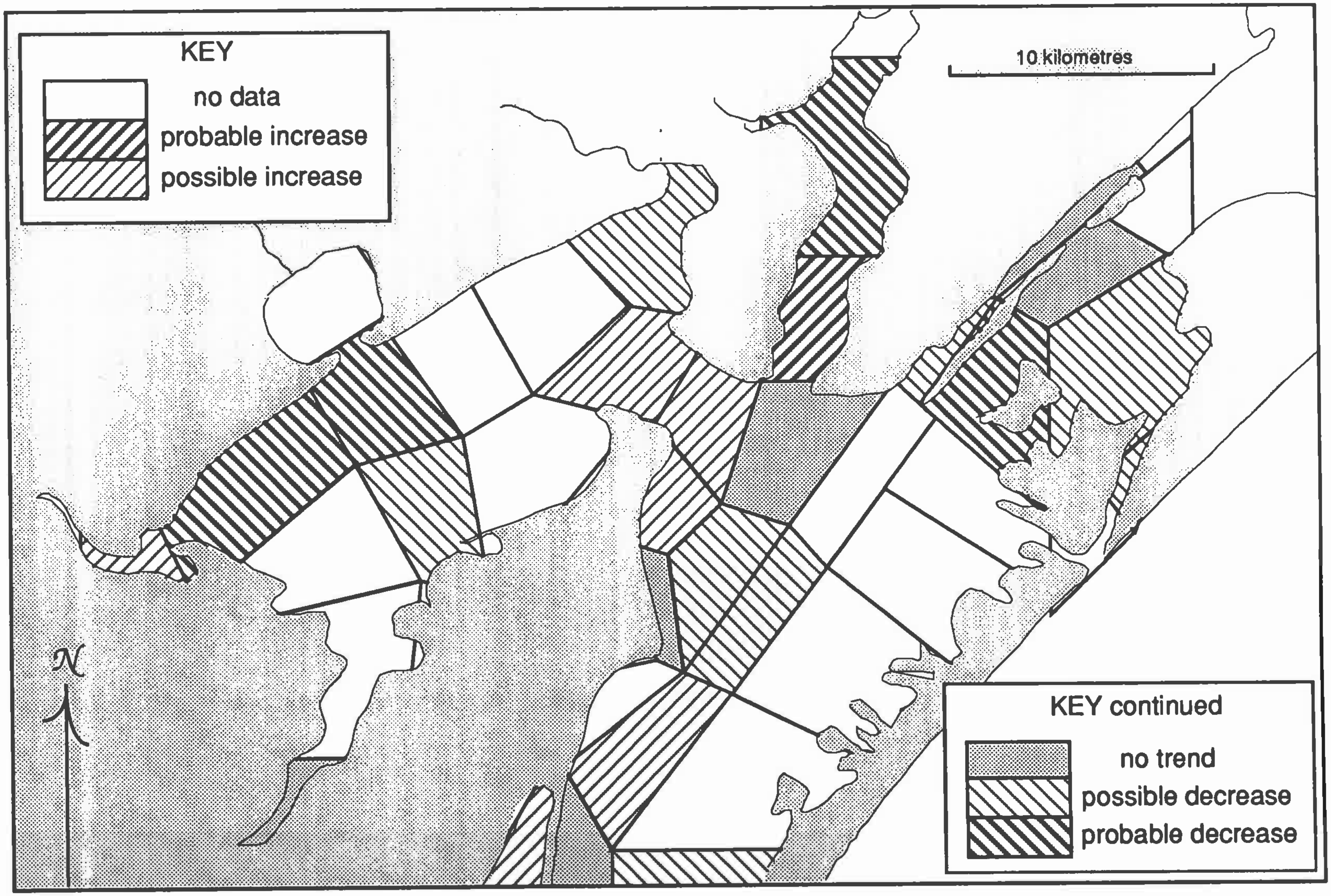

Figure 6-108. WQCHLA period-of-record time trends for Aransas-Copano system

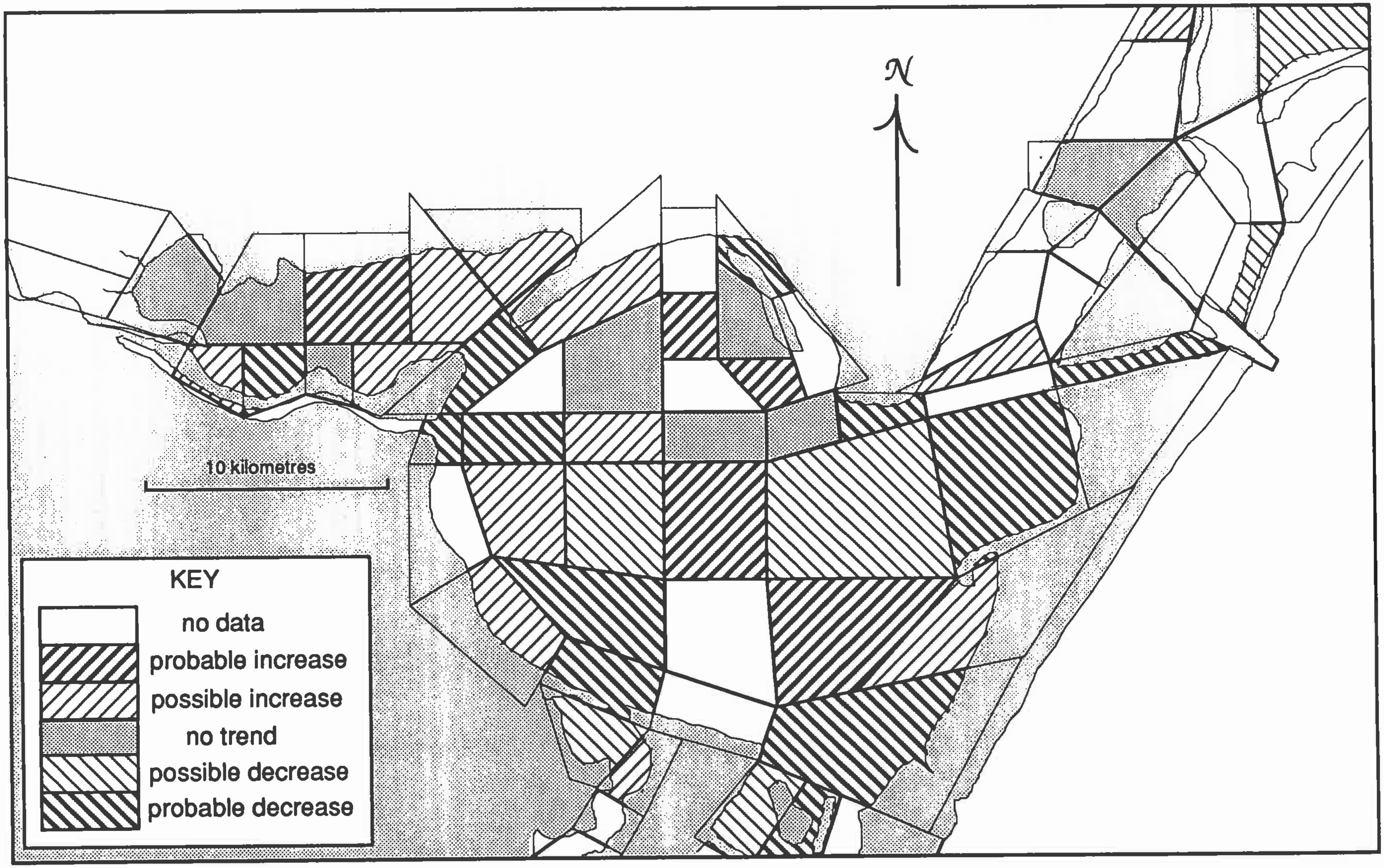

Figure 6-109. WQCHLA period-of-record trends for Corpus Christi system

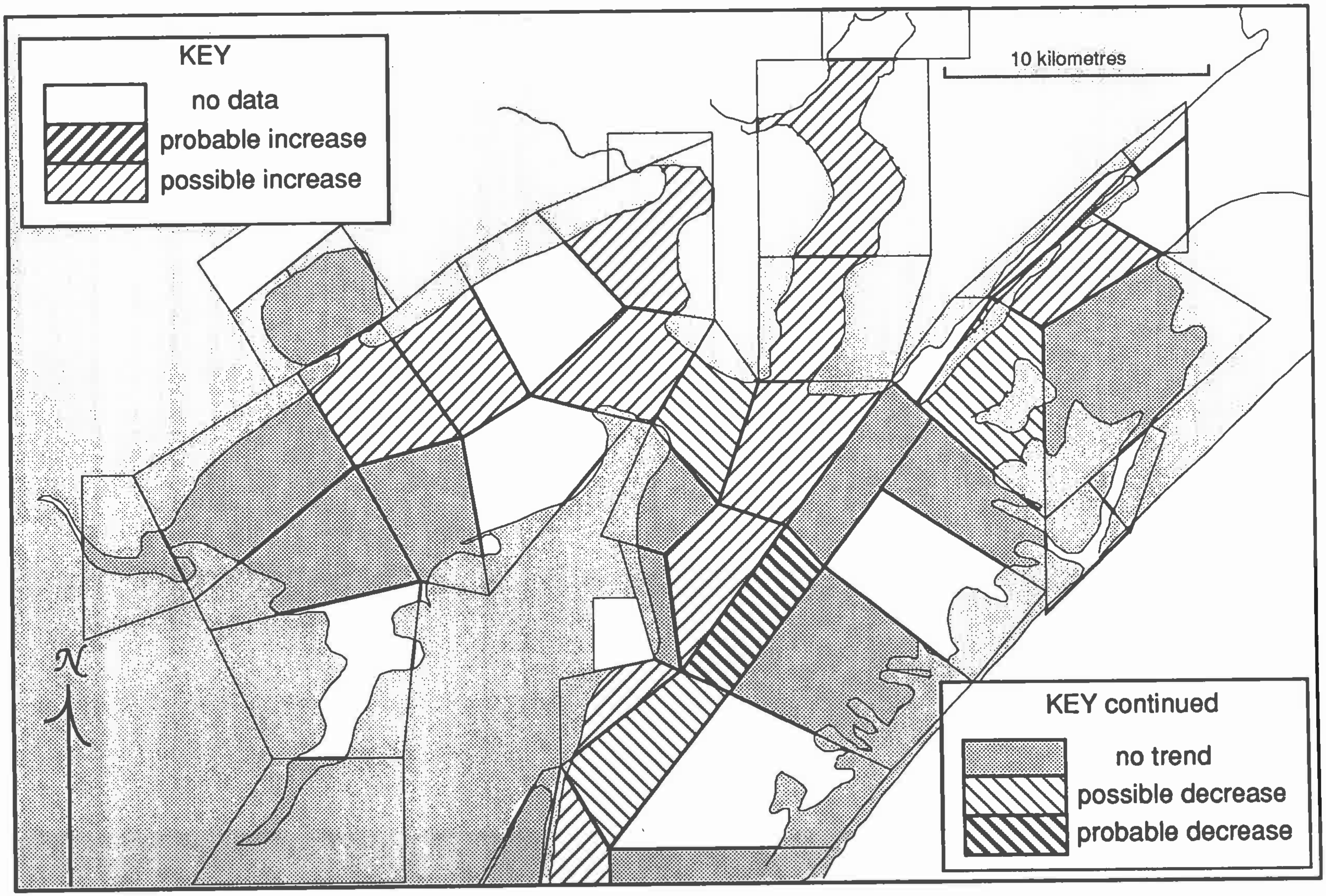

Figure 6-110. WQFCOLI period-of-record time trends for Aransas-Copano system

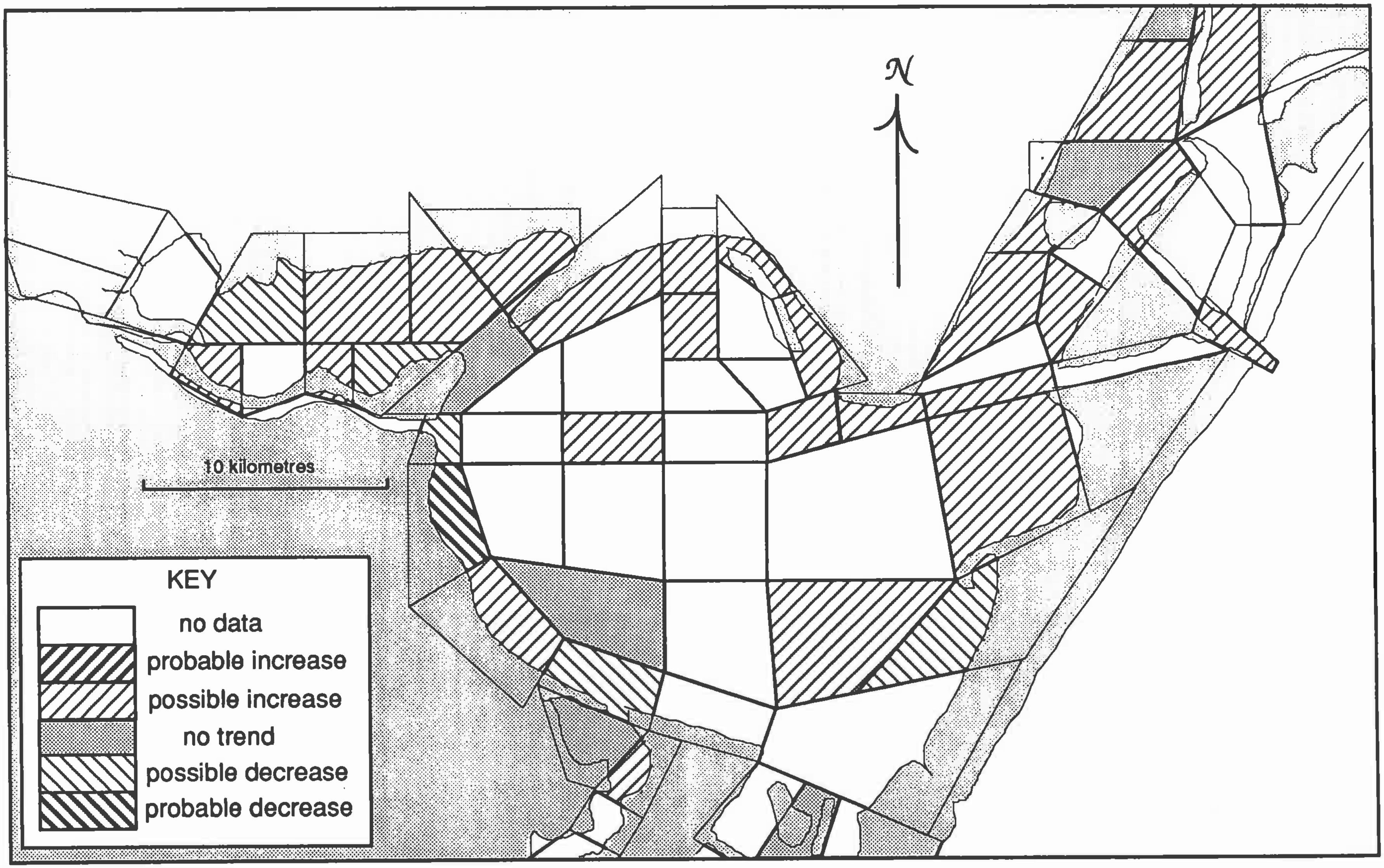

Figure 6-111. WQFCOLI period-of-record trends for Corpus Christi system

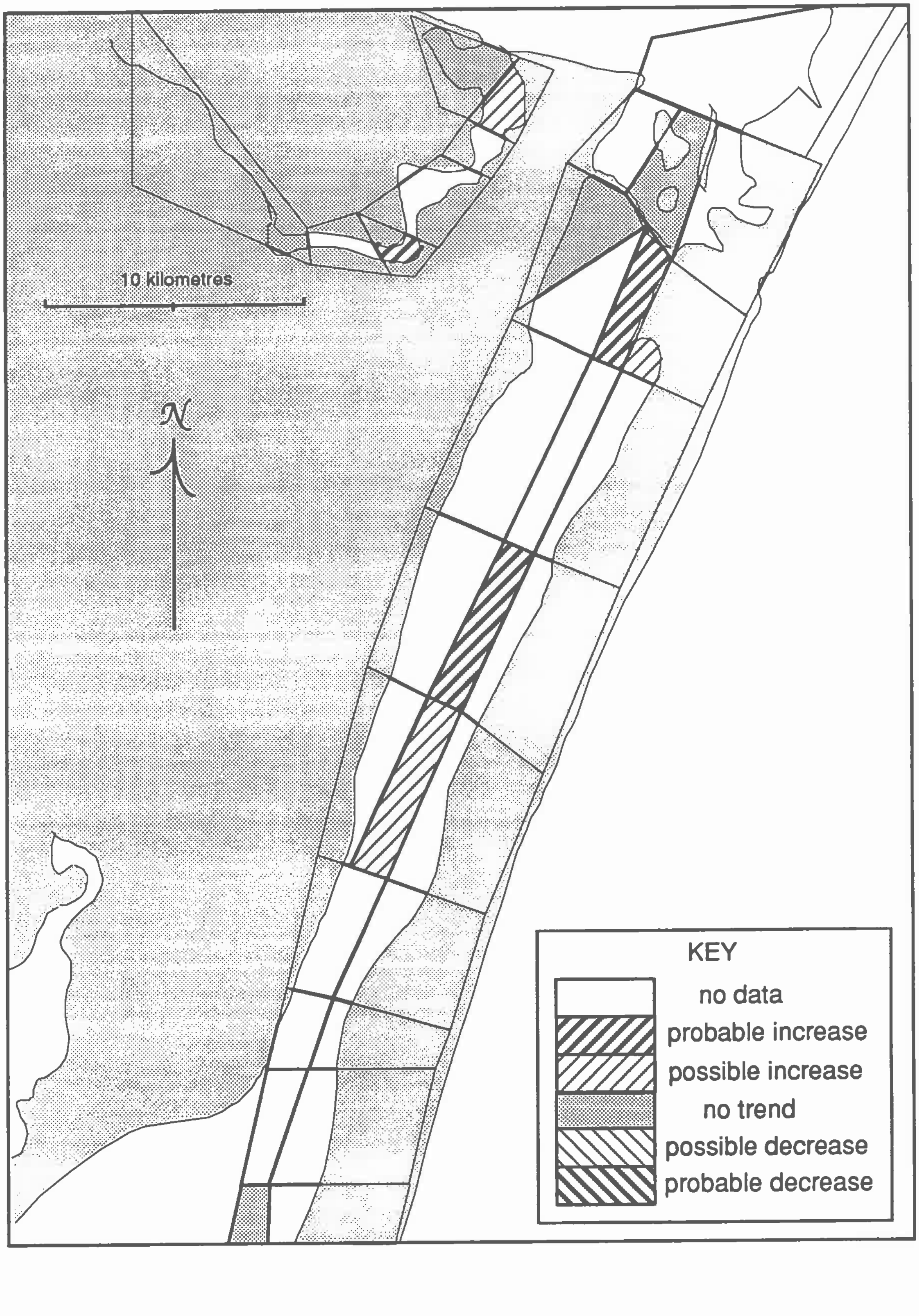

Figure 6-112. WQFCOLI period-of-record trends for Upper Laguna Madre and Oso Bay

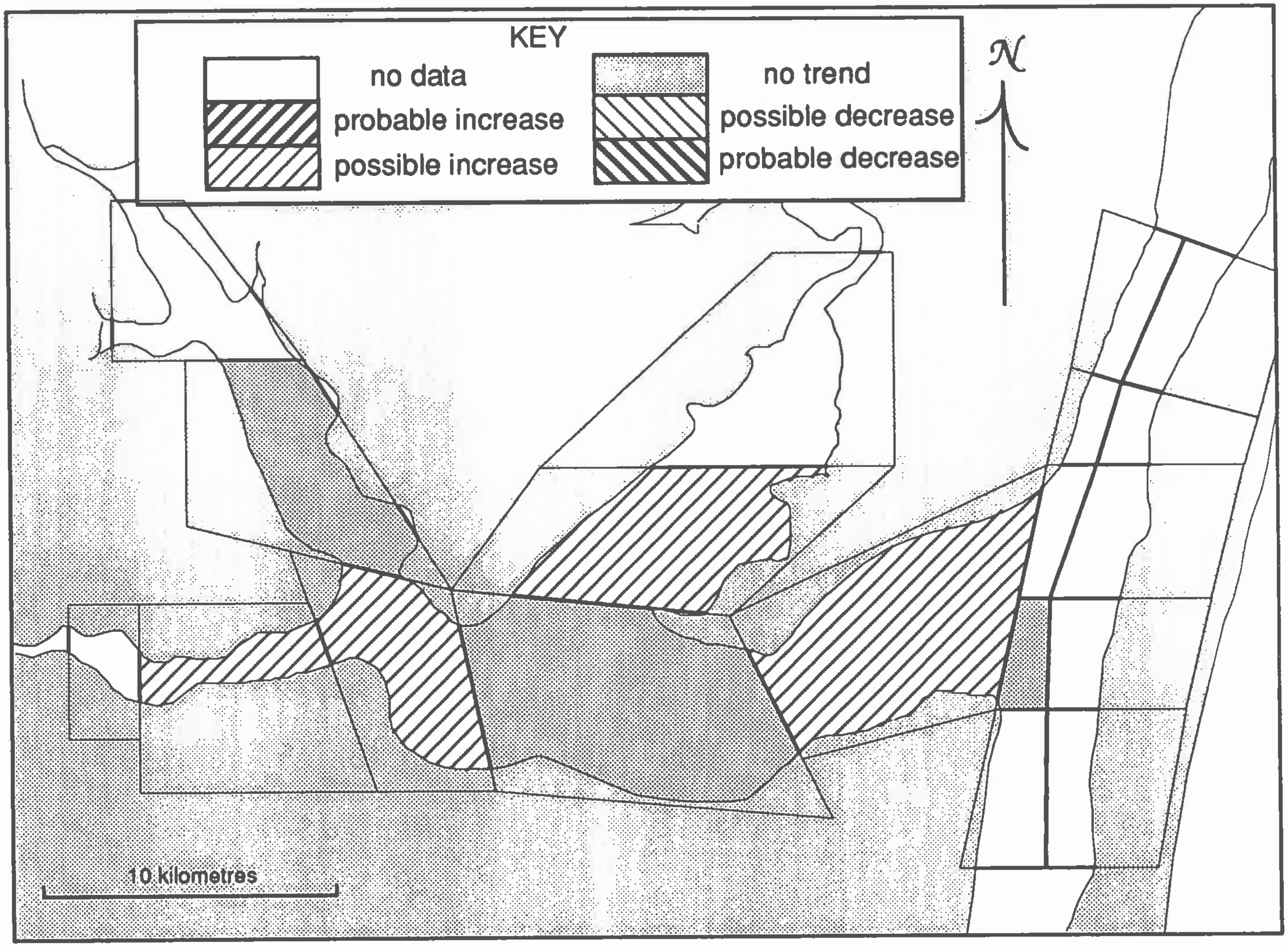

Figure 6-113. WQFCOLI period-of-record time trends for Baffin Bay region

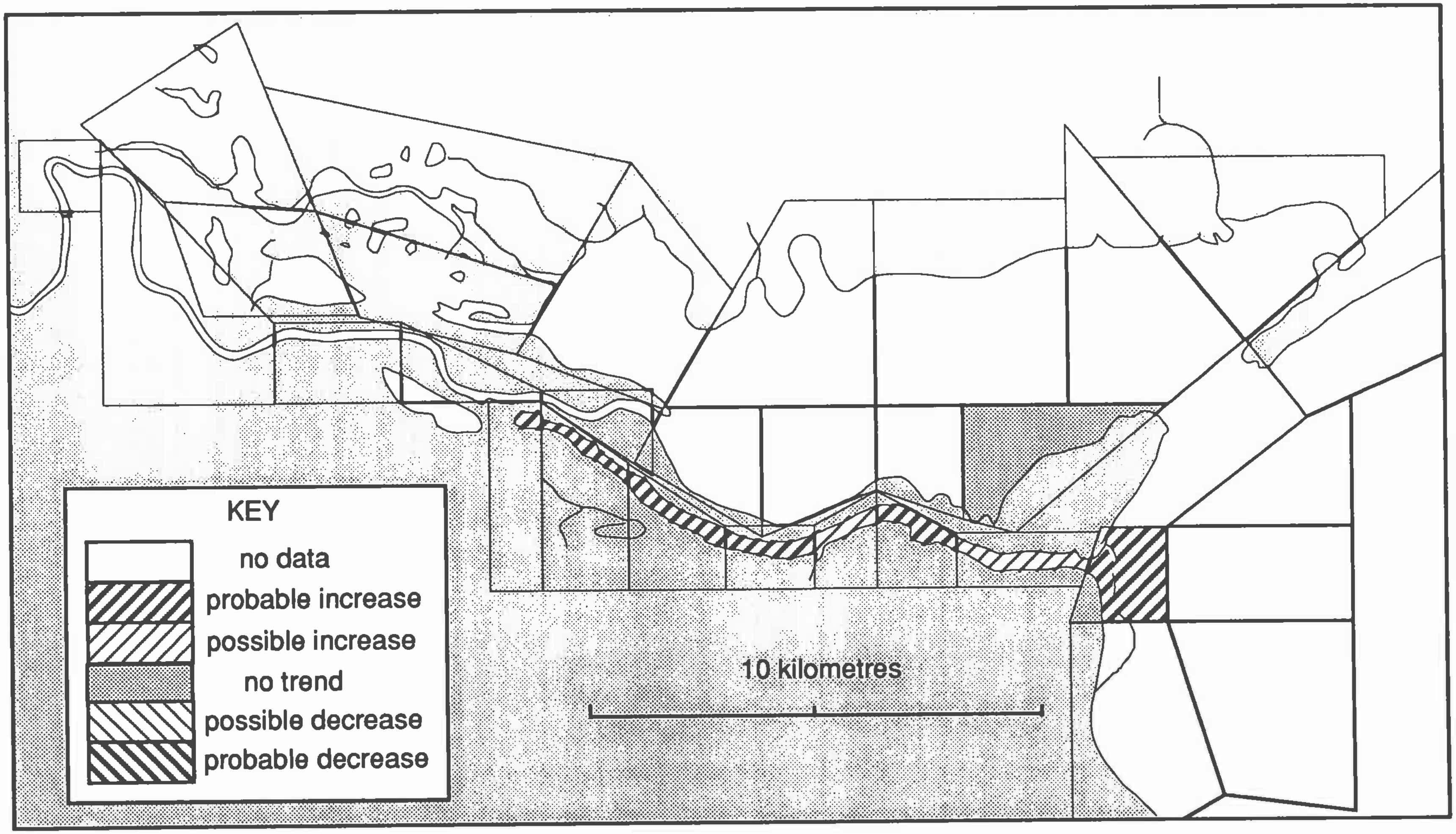

Figure 6-114. WQMETPBT period-of-record time trends for Nueces Bay region, including Inner Harbor

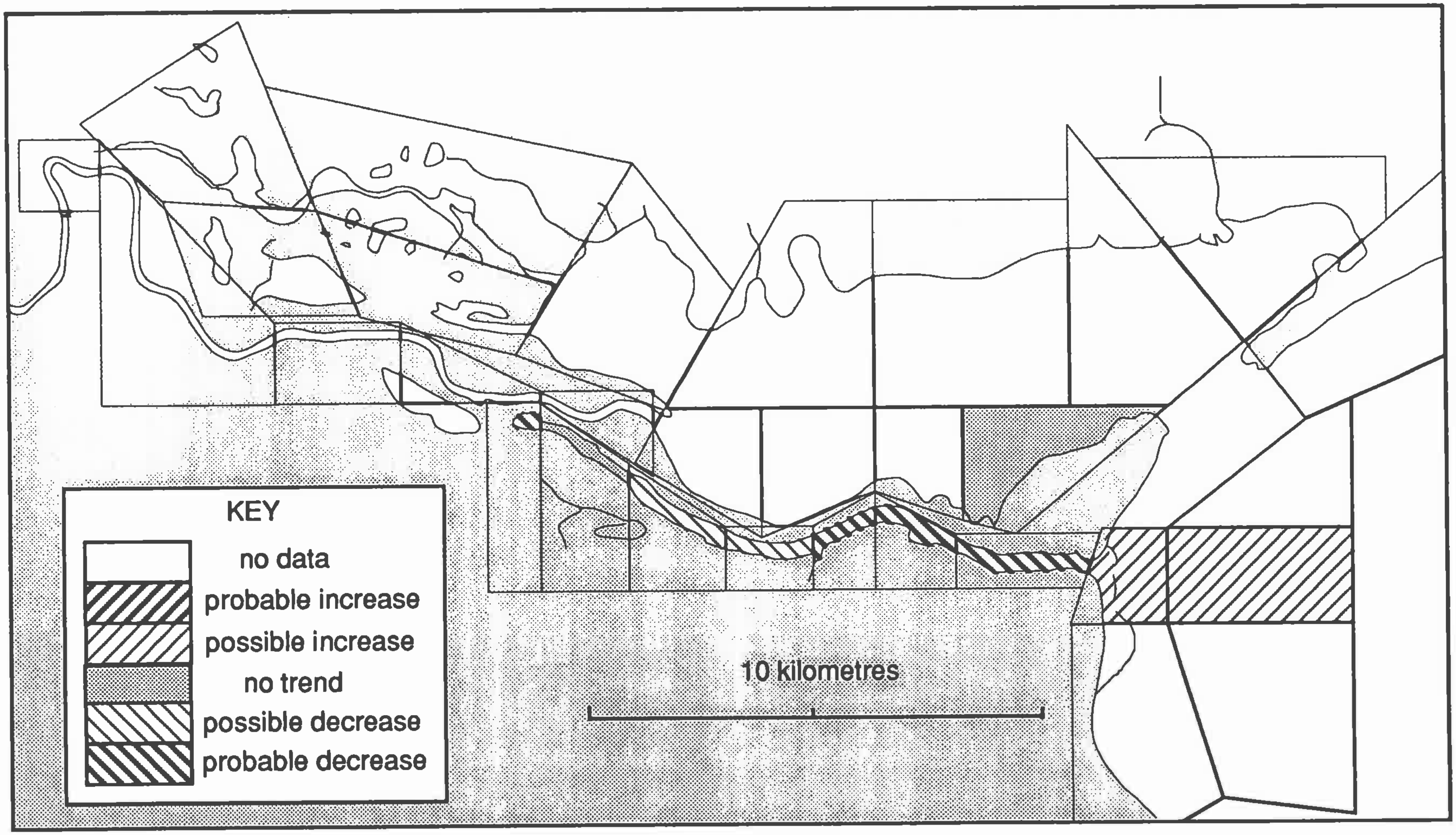

Figure 6-115. WQMETZNT period-of-record time trends for Nueces Bay region, including Inner Harbor

6.3 Observations

Salinity is, of course, the central hydrographic and habitat variable of Corpus Christi Bay. We expect the long-term average salinities to exhibit a landward decline toward the sources of inflow. What is striking about the distributions in the CCBNEP study area, Figs. 6-1 through 6-5, is that the overall gradient in salinity runs from north to south across the study area, from lowest salinities in the Aransas-Copano system to highest salinities in Baffin Bay, but without clear association with points of major inflow. In the upper section of Corpus Christi Bay, in particular, the gradient to the Nueces River inflow is quite flat. Consonant with our philosophy of segregating the *facts* of the statistical analyses from their *interpretation*, we defer comments on probable causes and apparent associations with controlling variables to the discussions of Chapter 9.

Within Corpus Christi Bay *per se*, Fig. 6-2, the highest average salinities occur dead center in the bay, and of course near the entrance to the Laguna Madre. In the Gulf, mean salinities are higher nearshore than offshore, and are depressed slightly out from Aransas Pass. However, comparison of the average salinities interior to Corpus Christi Bay to those in the Gulf, in which these statistics indicate the former to be less than the latter, should be done warily since the period of record for the Gulf data is considerably shorter than for the bay. Unlike the estuaries on the upper Texas coast, such as Galveston Bay (see Ward and Armstrong, 1992a), in Corpus Christi Bay there is no systematic elevation in mean salinity in association with the deepdraft ship channel. On the contrary, the mean salinities in the channel segments of Fig. 6-2 are consistent with the larger-scale gradients. Oso Bay, Fig. 6-4, exhibits a landward decline in salinity, but in its open areas exceeds substantially the salinity of the adjacent Corpus Christi Bay. Salinities in the Laguna and Baffin Bay generally exceed those of the adjacent Gulf by several ppt, and in the upper Laguna the GIWW seems to exhibit systematically lower salinities than those of the adjacent shallows. Baffin Bay, the most saline component of the study area, exhibits *increasing* mean salinity landward up the principal tributary arms of the estuary, Fig. 6-5. Perhaps surprisingly, there is no clear seasonal variation in salinity in the CCBNEP study-area system other than a proclivity for slightly higher salinities in the summer months, see Figs. 6-55 and 6-56. Only Nueces Bay exhibits a depression that could be characterized as a freshet response, and this is only a depression of 7 ppt in June.

Average salinity stratification (Table 6-27) is remarkably uniform through the bay, given its noisy character, and is almost exclusively negative, as would be expected given the effect of salinity on buoyancy. In magnitude, the vertical (negative) salinity gradient is less than 0.5 ‰/m nearly everywhere, and less than 0.3‰/m throughout about half of the study area. Thus, the long-term average data support the general statement that the system is practically homogeneous in the vertical. The largest values of this (small) vertical gradient seem to occur in regions affected by inflow. There is no dependence of stratification on water depth evidenced in the long-term averages, in particular the deepdraft channel does not exhibit a rate of stratification different from the adjacent water. Reversed stratification does occur in the system (i.e., stratification in which the upper salinities exceed the lower), especially in the regions whose salinities exceed seawater. For the period of record, 10-20% of the time, stratification is positive in the upper bays. This illustrates the natural hydrographic variability of the Corpus Christi Bay environment.

Over the period of record, dating back in some segments to the early 1950's, there emerge trends in salinity that are coherent and systematic, but with considerable regional variation in the study area. In the less saline components of the upper bay, i.e. Copano and its tributary inlets, and St. Charles Bay, Fig. 6-69, there has been general increasing trends of salinity. Averaged over those segments in Copano Bay with probable increasing trends, the rate of increase is 0.08 ppt/yr. There is no clear trend in Aransas Bay. In Corpus Christi Bay, the general trend is for increasing salinities, at a rate averaged over the open-bay segments with probable increasing trends of 0.05 ppt/yr, but there are exceptions, notably in those areas adjacent to urban development such as the shoreline of the City of Corpus Christi and the La Quinta Channel and Portland areas, where salinity is declining at about the same rate. In Nueces Bay, Fig. 6-71, where there is a trend, it is increasing, at an average rate of 0.25 ppt/yr. Adjacent to the JFK Causeway on the north, there is an increasing trend in salinity averaging 0.4 ppt/yr. In the lower bays, there is no clear systematic trend in salinity.

Water temperature is generally homogeneous throughout the study area, varying generally less than 2°C over the entire system, except in winter and spring, when the range may be as large as 4°, the lower bays being of course warmer. There is some regional variation in this, especially in the secondary bays and tributary arms which tend to be slightly warmer on average than the open waters of the system. (The variability manifested in Figs. 6-7 through 6-12 may be as much due to varying numbers of samples and periods of record as to real variation.) Temperature, as expected, exhibits a prominent seasonal variation, Fig. 6-57, ranging from about 14° in winter to 30° in summer.

Stratification (Table 6-28) in temperature is noisy and not well-developed, but generally negative, averaging 0.05-0.1 °C/m, with most open-bay stations in Corpus Christi Bay less than 0.05°C/m. For the past two-three decades, there has been a general and substantial decline in water temperatures in the upper bays, especially in the open-bay segments, see Figs. 6-75 through 6-77. Averaged over all segments with a probable negative trend, this decline is roughly -0.1°C/yr in Corpus Christi Bay and -0.06 °C/yr in Nueces Bay. In contrast, the Upper Laguna has exhibited an increasing but less definite trend in temperature, Fig. 6-78, on the order of 0.03°C/yr. In the Gulf of Mexico, the inshore regions exhibit increasing trends, averaging 0.3 °C/m, but this is based upon shorter periods of record, around a decade, Fig. 6-80. There are no clear trends in the offshore areas, nor in Baffin Bay, Fig. 6-79.

As expected, there is little variation in pH in the system, from values approaching 8.5 in the open, more saline segments of the bay, to values around or slightly less than 8.0 near points of inflow. No figures are shown displaying this behavior, but Table 6-10 summarizes the general spatial and season distributions of pH. There is a slight tendency toward a trend in pH in major segments of the system, Table

6-43, declining in the open waters and increasing in the regions more affected by freshwater, on the order of 0.01 pH/yr. This trend, if real, would of course tend to render even more uniform the range of pH over the study area. It is interesting to note that, though the period of record is shorter, there seems to be a decline in alkalinity in the system, Table 6-42.

Dissolved oxygen variation is affected to a large extent by variation in solubility. The annual variation in temperature, Fig. 6-57, implies an annual variation in DO, as shown in Figs. 6-58 and 6-59. We therefore focus more on the dissolved oxygen deficit to identify spatial and temporal trends. Average dissolved oxygen concentrations in the open bay are uniformly high. Near-surface values, Figs. 6-13 to 6-17, exceed saturation almost everywhere, and never are less than 1 ppm below saturation. The lowest mean DO values (highest deficit values) in the system are found primarily in the Inner Harbor, north-central sections of Corpus Christi Bay, and in the shallow waters of the Upper Laguna Madre. In the adjacent Gulf of Mexico, near-surface concentrations are slightly lower on average than in the bays, but will within half a ppm of saturation. There is no clear seasonal pattern in deficit, but there seems to be a proclivity toward bimodality with minima in deficit (i.e., maxima in DO) in January and June in the upper bays and the Gulf of Mexico, Fig. 6-60, and April and September in the lower bays, Fig. 6-61.

Stratification in DO deficit dominates DO stratification, that is, the vertical variation in salinity and temperature have an at-most secondary effect on vertical DO variation. The stratification in DO deficit is uniformly negative, Table 6-29, and on the order of 0.1 - 0.2 ppm/m. There appears to be no correlation with depth or with dredged ship channels.

For dissolved oxygen, the time trends are not clear. There is more of a tendency for increasing trends in DO than decreasing, Table 6-40, but the statistical confidence is not particularly high, no doubt due to the high seasonal variability in DO resulting from solubility. Trends in deficit are somewhat better defined. In the Aransas-Copano system, deficit is declining, i.e. the DO climate is improving, Fig. 6-81, on the order of 0.03 ppm/yr, Table 6-41. In Corpus Christi Bay overall the trends are a wash, but there is a large area in the central region of the bay with coherent increasing values of deficit, on the order of 0.05 ppm/yr. The Inner Harbor, historically the site of greatest DO stress, does not exhibit any clear trend in DO or deficit, Fig. 6-83. In the Laguna the trends are variable, while in Baffin Bay, where a trend in deficit emerges, it is declining (i.e., DO is improving).

The spatial variation of BOD exhibits an expected pattern of uniformity in the open areas of each of the major bays of the system, and, also as expected, increases toward regions of waste discharge. What emerged from the data analysis that was unexpected is a general increase in BOD from the upper bays of Copano-Aransas, to the lower bays of the Laguna and Baffin. BOD's are about 1.5-2.0 in Copano and Aransas, with higher values in upper St. Charles Bay and the Aransas River mouth. In Corpus Christi, they are on the order of 2 ppm, with values of 3-5 in Oso Bay and the Inner Harbor (Fig. 6-19). In the Upper Laguna, BOD's generally exceed 3 ppm, Fig. 6-20, and in Baffin Bay range 3-6 ppm, Fig. 6-

21. Unfortunately, BOD is not widely sampled, and as a water-quality indicator its use (and hence sampling rate) has declined in recent years, so it is not clear how well this pattern represents the present conditions. It is noteworthy that BOD is declining in the Aransas-Copano system, Fig. 6-87, where deficit is improving. However, the reverse association occurs in Corpus Christi Bay, where BOD is declining in the open waters of the bay, Fig. 6-88, but deficit is increasing.

The concentrations of nitrogen species are fairly uniform throughout the study area. Ammonia ranges from 0.06 - 0.08 ppm on average, with seasonal variability from 0.05 to over 0.10 ppm, see Figs. 6-22 through 6-24, 6-61 and 6-62. Nitrate is noisier, with elevated values in regions influenced by runoff, especially Copano and Nueces Bays. The highest concentrations of ammonia and nitrate occur in the Inner Harbor, Fig. 6-24 and 6-27. Throughout the study area, ammonia tends to be slightly but systematically stratified with concentration decreasing upward in the water column, Table 6-31. The same is not true of nitrate, whose stratification is noisy and nonsystematic, Table 6-32. Where concentrations are high in ammonia and nitrates, the trends are generally declining. The prominent exception to this statement is the Inner Harbor, where ammonia is declining but nitrate does not show a clear trend. The decline in nitrogen species is particularly evident in the Baffin system, see Figs. 6-92 and 6-95.

The more common measures of phosphorous concentration are orthophosphates and total phosphorus. Generally, the latter is predominant in the Corpus Christi Bay data, hence was selected as the principal measure of phosphorous for analysis. One significant source of uncertainty in this measurement is the treatment of particulate (versus dissolved) phosphorus. Phosphorous is sorptive and has an affinity for fine-grained suspended sediments. In some of the data sets, it is not clear whether the total-phosphorous analyses are restricted to the dissolved fraction (i.e. whether the sample is filtered) or includes the particulate. Phosphorus is variable in concentration in the study area, and higher values occur in proximity to points of runoff, including Copano Bay, St. Charles Bay, Nueces Bay, Oso Bay, and the arms of Baffin Bay, Figs. 6-28 through 6-32. There is a widespread tendency for increasing phosphorus in the upper bays, see Table 6-46 and Fig. 6-96, but with low statistical confidence. Moreover, the (less extensive) data on total phosphates generally do not confirm this trend, Table 6-47. The exception is Baffin Bay, which exhibits some of the highest phosphorus in the study area, with probable increasing trends throughout the bay in both total phosphorus and total phosphates. The magnitude of these trends, however, though statistically "significant," are not regarded as physically significant, see Tables 6-46 and 6-47.

The concentrations of total suspended solids generally increase toward points of inflow and regions of runoff through out the system, and are generally higher in the bays than in the Gulf of Mexico, Figs. 6-33 through 6-38. Stratification in TSS is pronounced, and decreases upward, both in the direct TSS measurements, Table 6-34, and the proxy values of TSS based upon turbidity and transmissivity measurements, Table 6-35. The most remarkable feature of TSS in Corpus Christi Bay is the widespread declining trend throughout the study area. This declining trend increases in prominence from the upper bays to the lower. In

Copano, the trends are up and down, and could be judged a wash. In Corpus almost all *probable* trends are negative, the exceptions being near Aransas Pass, with probable trends very prominent in Nueces Bay and along the south shore near the City of Corpus Christi. In the Upper Laguna (Fig. 6-97) and Baffin Bay (Fig. 6-98) probable declining trends occur *uniformly* throughout these systems. The mean rate of decline, averaged over those segments with a probable negative trend, see Table 6-50, is on the order of 0.5 ppm/yr increasing to 1 ppm/yr in the lower bays. Trends in the Gulf of Mexico, Fig. 6-102, generally based upon fewer data per segment over a shorter period of record, are variable and incoherent. Measurements are spottier for the volatile component of the suspended solids, but generally VSS ranges 5-25 ppm through the system, is highest in Nueces Bay, Oso Bay and the mouth of the Aransas River, otherwise appears to be fairly uniformly distributed. Almost everywhere in the system (where data exist) there is a probable declining trend. Data on oil and grease are even more limited, with most areas of the bay unsampled. Of those regions sampled, the largest systematic concentrations are found in the Inner Harbor, and the GIWW at Carlos Bay.

Data on total organic carbon is limited in many areas of the bay system. Generally the values are about a factor of 2 higher in the upper bays, declining from 20-30 ppm in Copano to 5-15 ppm in Baffin and the Laguna, with a seasonal peak in early summer, see Fig. 6-66. Where concentrations are higher, the trend is declining. Therefore, declining trends are more prominent in Aransas-Copano, Nueces and the open waters of Corpus Christi Bay, but not in the lower bays, Table 6-51 and Figs. 6-103 through 6-107. The prominent exception to this is in the Inner Harbor, where average TOC is the highest in the study area, Fig. 6-39, and is increasing in time, Fig. 6-105.

Available data are even sparser for chlorophyll-a. Where data exists, the pattern seems to be one of higher concentrations in the shallower bays subject to runoff and inflow, Figs. 6-40 through 6-43. There appear to be higher variability and more of a seasonal variation in the outer bays than in the main body of Corpus Christi Bay, see Fig. 6-67. For the instances in which chlorophyll-a was sampled at two or more points in the vertical, the stratification is predominantly *negative*, i.e. decreasing in concentration up the water column, see Table 6-48. The paucity of data also obscures time trend analysis, but there is a tendency for declining chlorophyll-a concentrations in Copano Bay and some of the peripheral (nearshore) areas of the main body of Corpus Christi Bay.

Fecal coliforms, Figs. 6-44 through 6-46, are highest in the upper bays in proximity to sources of inflow and runoff, especially in urbanized areas. The highest average coliforms in the system occur in the nearshore segments from Corpus Christi Beach to Oso Bay, Fig. 6-45. Much higher values are represented in the fecal coliforms in this region than the older total coliform determinations from the same area. Coliform data tend to be particularly "spikey," with many small values with rare, large values interspersed. The period of record average, and other statistics, therefore are especially sensitive to the intensity of sampling. It is perhaps no surprise, then, that time trends do not carry a high degree of statistical confidence. We note the predominance of increasing trends in the outer bays, *viz*. Copano and St. Charles Bay, Fig. 6-110, Baffin and the Upper Laguna, Figs. 6-112 and 6-113.

Most areas of the Corpus Christi Bay system have an inadequate data base for metals, and even less data for organic compounds. For the metals, some of whose mean concentrations are plotted in Figs. 6-47 *et seq*., the "stencil mask" of missing data covers the majority of the bay, and seriously hampers our ability to judge the extent of metals occurrence in the system. Generally, the areas sampled are those in which metals are expected to be encountered, namely the principal ship channels, the Inner Harbor and La Quinta Channel, and regions subjected to runoff from urban or industrialized areas. Elevated concentrations have indeed been detected in these regions. But we are unable to judge to what extent such concentrations might be dispersed through the system. This paucity of information is compounded by the fact that the majority of the determinations of metals are reported as below detection limits. With these limitations noted, the statistical behavior of metals is as follows:

• Elevated concentrations of arsenic (7-10 ppb) occur in Redfish Bay and adjacent Corpus Christi Ship Channel, and in Baffin Bay. The highest concentration in the system is found in NB7 in Nueces Bay, the only segment sampled for this metal in Nueces Bay. There are no clear time trends in the system.

• Cadmium is generally less than 10 ppb through the system. The highest values in the study area by two orders of magnitude are in the La Quinta Channel and in NB7 in Nueces Bay, the segment mainly sampled for this metal in Nueces Bay, see Fig. 6-47. There are no clear time trends in the system.

• Chromium is noisy. Occasional freak values of 50-90 ppb have been measured throughout the system, but it is difficult to ascribe any significance to these. The highest systematic values occur in the Inner Harbor, La Quinta Channel, and in Nueces Bay. The trend is probable and increasing in La Quinta Channel, and probable and declining in the Inner Harbor.

• Copper, like chromium, is spikey. Systematic elevated concentrations occur in the Inner Harbor (10-20 ppb) region, La Quinta Channel region (10-40 ppb), Baffin Bay (10-60 ppb), and Nueces Bay (20 ppb), see Fig. 6-48 and 6-49. There are no clear time trends.

• Elevated mercury concentrations (> 0.2 ppb) occur in La Quinta Channel, the Inner Harbor, Nueces Bay (NB7, again) and Baffin Bay. An extreme value of 1.7 ppb occurs in the King Ranch reach of the Upper Laguna (I12), and an even more extreme value of 3.7 ppb at the mouth of Baffin Bay. There are no clear time trends.

• Nickel, like chromium, is spikey. The La Quinta Channel and Inner Harbor regions are systematically elevated in concentration (10-60 ppb), but the largest concentrations occurring in the system are in Redfish Bay adjacent to Harbor Island (RB8, 130 ppb), the entrance of Oso Bay (OS7, 200 ppb) and the Upper Laguna (I12, 100 ppb). There are no clear time trends.

• Lead is similar to mercury in its distribution, see Fig. 6-51 and 6-52, except that the highest values in the system are found in Nueces Bay and its mouth. The only probable trends in time are in the Inner Harbor, and are increasing, see Fig. 6-114.

• As with the other metals, for zinc the Inner Harbor, La Quinta Channel and Nueces Bay (NB7) show systematic elevated concentrations, Fig. 6-53 and 6-54. High concentrations of zinc have also been observed in the Aransas River Mouth, Baffin Bay, the Laguna Madre and Oso Bay, but the data base in these areas is generally not as extensive. Single measurements of concentrations over 100 ppb have been made occasionally scattered throughout the system, but it is difficult to judge how real these are. The only probable trends occur in the La Quinta Channel area and the Inner Harbor, the former increasing and the latter declining, see Fig. 6-115.

One impression that emerges from the survey of the individual metals is that, apart from the industrialized areas, there are isolated regions of the system that show unexpectedly high concentrations in most of the metals. One of these is the southeast corner of Nueces Bay (NB7). Unfortunately, this is the only segment in Nueces Bay that is regularly sampled. Occasional sampling in other areas of Nueces Bay confirm a proclivity for high metals which raises the question of whether this might be prevalent throughout the bay. Also, the mouth of the Aransas River (AR1), the mouth of Oso Bay, the Harbor Island area of Redfish Bay, and a point about midway in the King Ranch reach of the Laguna Madre show high concentrations of most of the metals. For most of these, the segments around the area are not sampled, so, as in Nueces Bay, it is not clear whether the elevated metals are isolated or representative of this entire region of the system. In the last case, however, the segment is I12 in and around the GIWW in the Upper Laguna. The segments both north and south of this region have also been sampled for metals, but do not exhibit the systematically high concentrations of I12. It should be noted that Table 6-26 attempts to display the average concentrations of metals away from regions that might be locally influenced so as to be unrepresentative of the component-bay. Therefore, Segment AR1 is excluded from Copano Bay, and Segment NB7 is excluded from Nueces Bay, yet these are the very segments exhibiting high concentrations. On the other hand, Table 6-26 clearly shows the higher metals prevalent in the Baffin system.

From a statistical point-of-view, very little can be said about organics in the study area. The best-monitored pesticide is DDT, and the greatest data base is that assembled by proxying the principal isomer. Even at this, most areas of the bay do not have data, and those segments which do are most often below detection limits (counted as a value of 0 in these averages). Only four non-zero average values occur in the entire study area, two in the GIWW at Ayres Bay, one in Nueces Bay, and one in Baffin Bay. For toxaphene, only one non-zero value occurs, that in Nueces Bay. The situation is similar for the other organics, with only one or a few non-zero values, and inadequate data to determine any trends or spatial variation.