Figure 26. Seagrass distribution changes between 1958 to 1994 in Redfish Bay.

Previous Page

Redfish Bay
Seagrass Changes 1958 - 1994

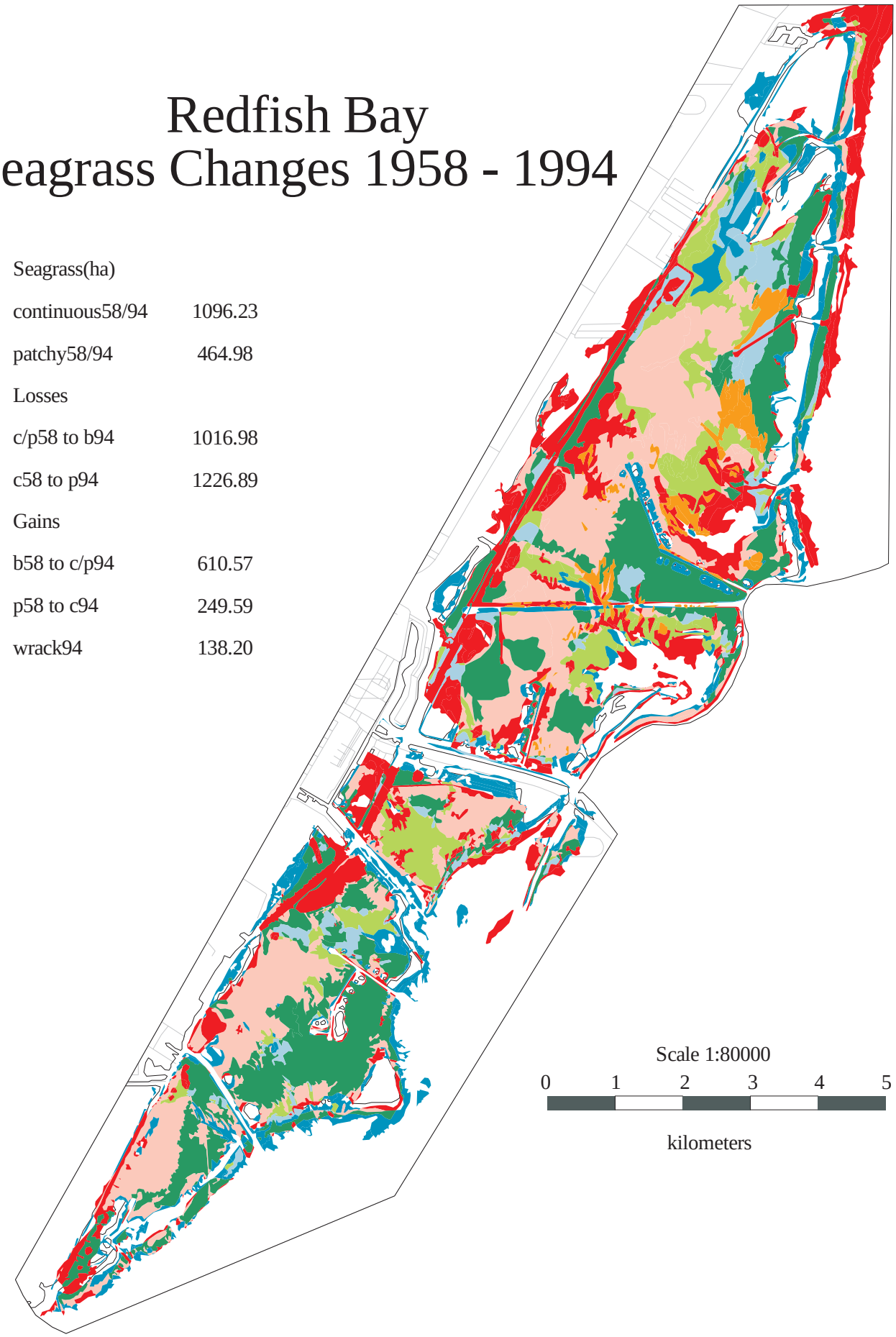


Figure 27. Seagrass distribution changes between 1958 to 1975 in Redfish Bay.

Redfish Bay
Seagrass Changes 1958 - 1975

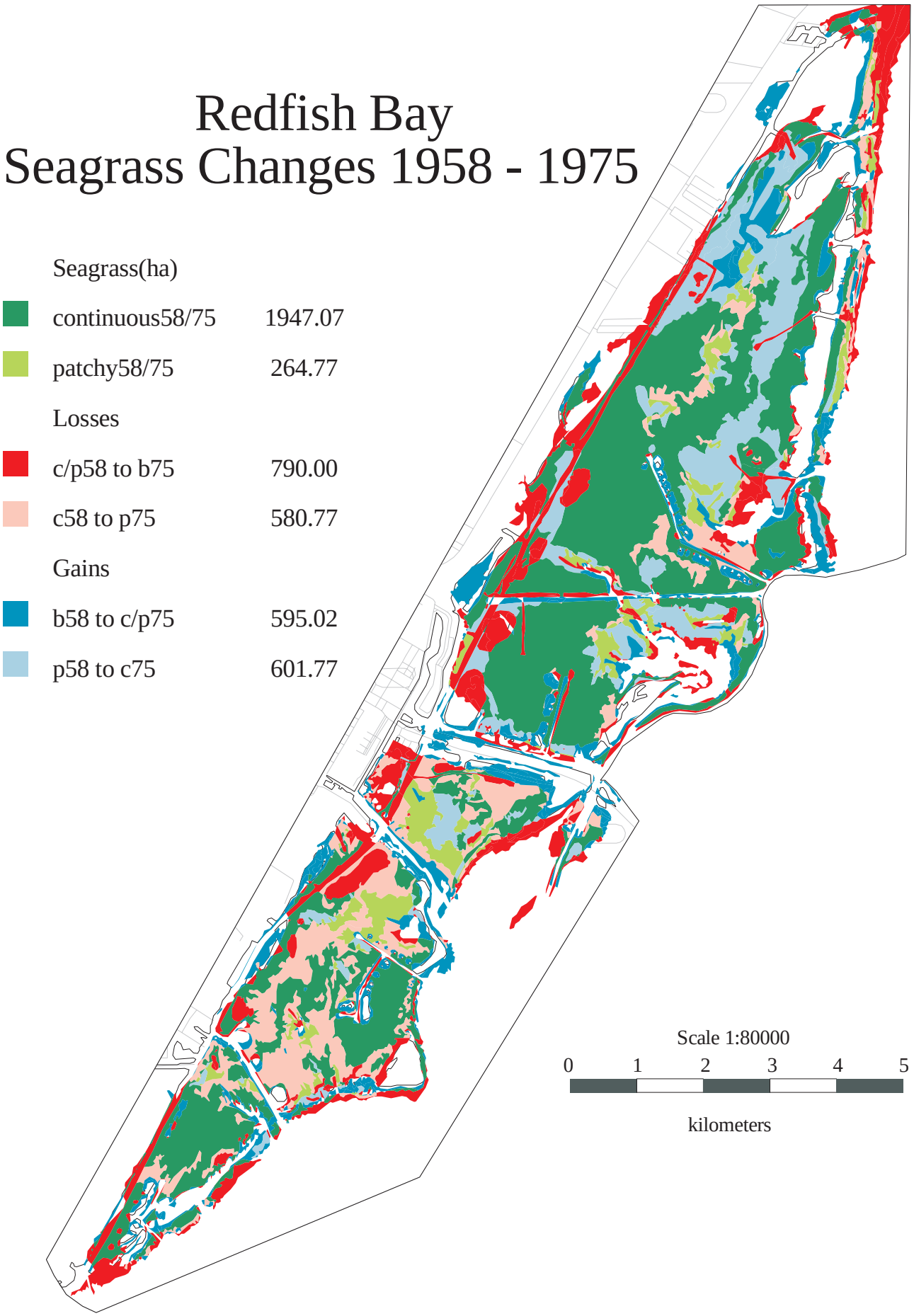
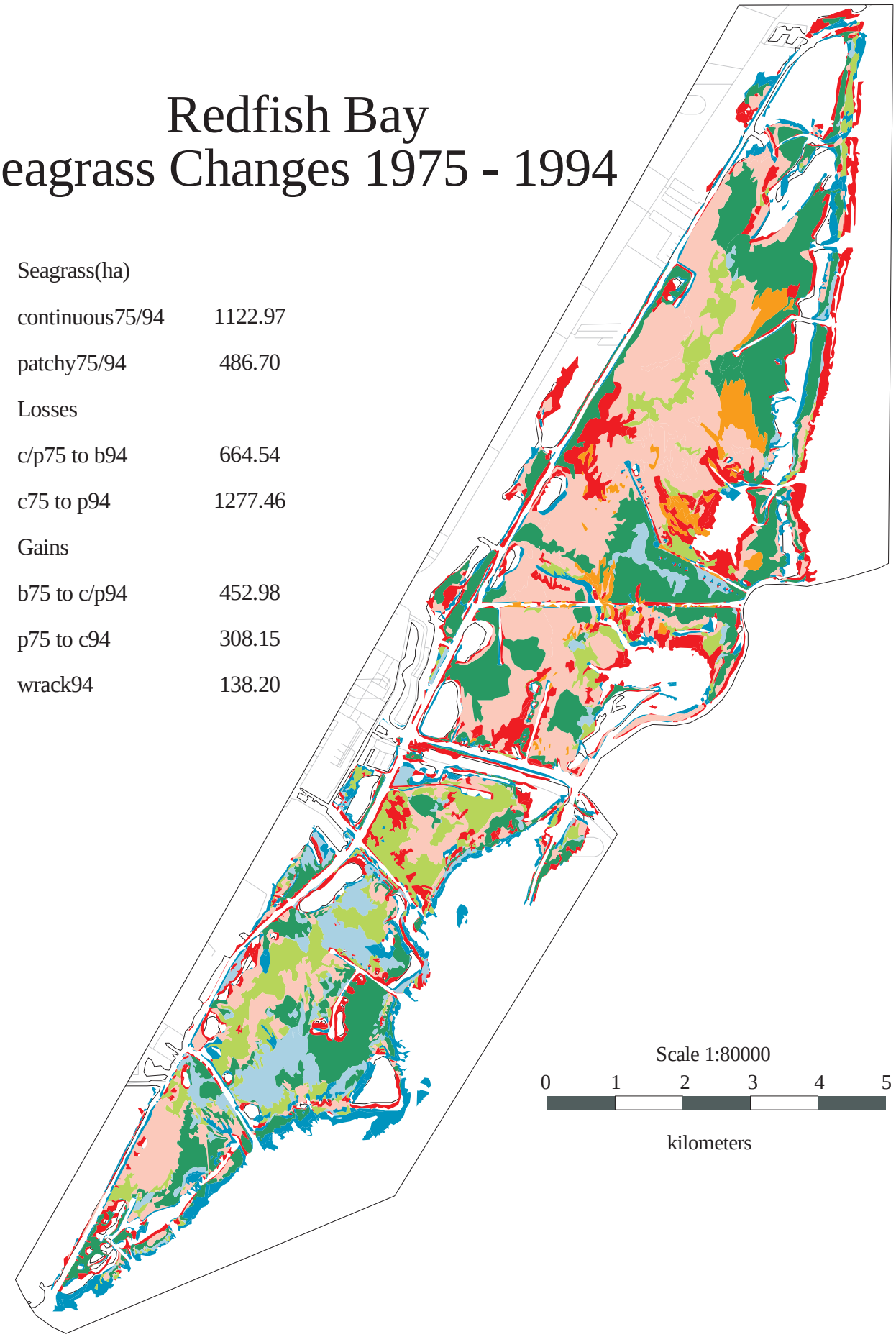


Figure 28. Seagrass distribution changes between 1975 to 1994 in Redfish Bay.

Redfish Bay
Seagrass Changes 1975 - 1994



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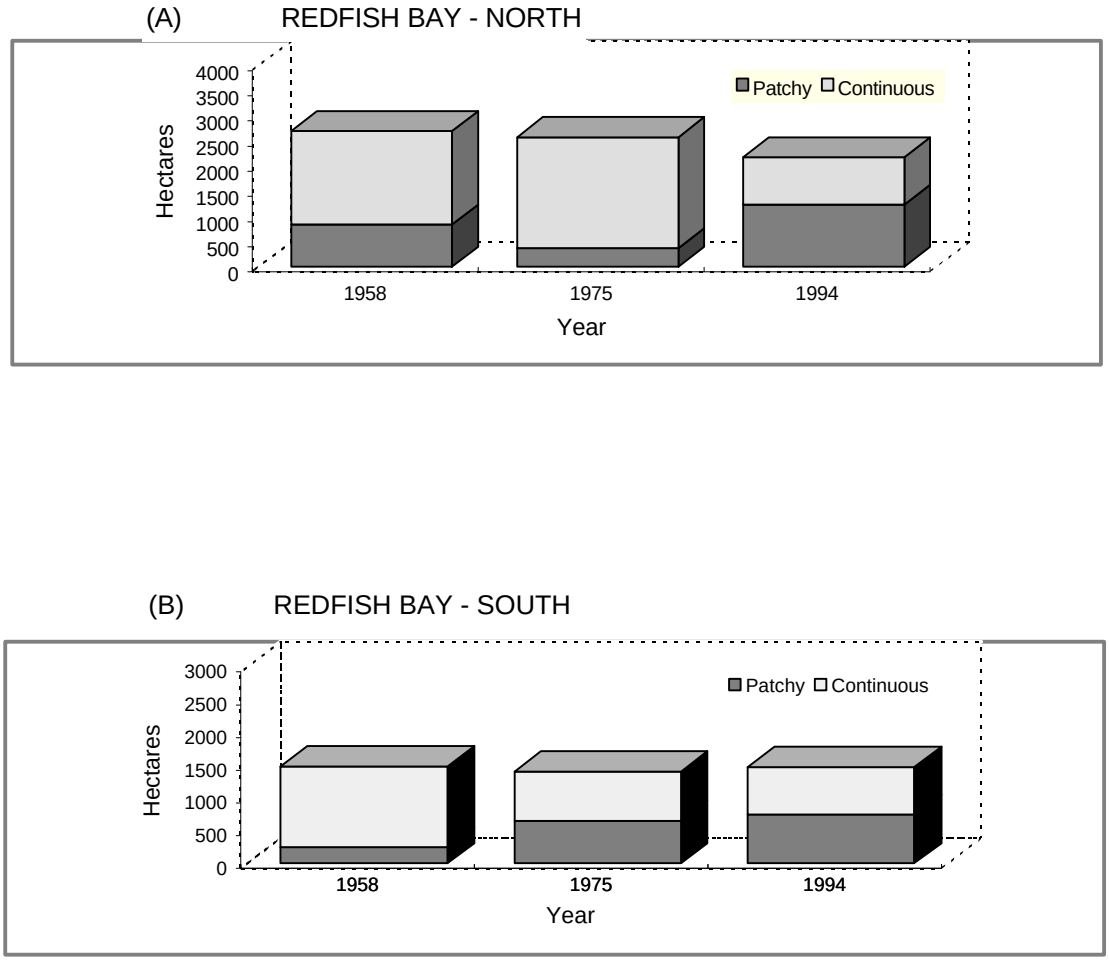
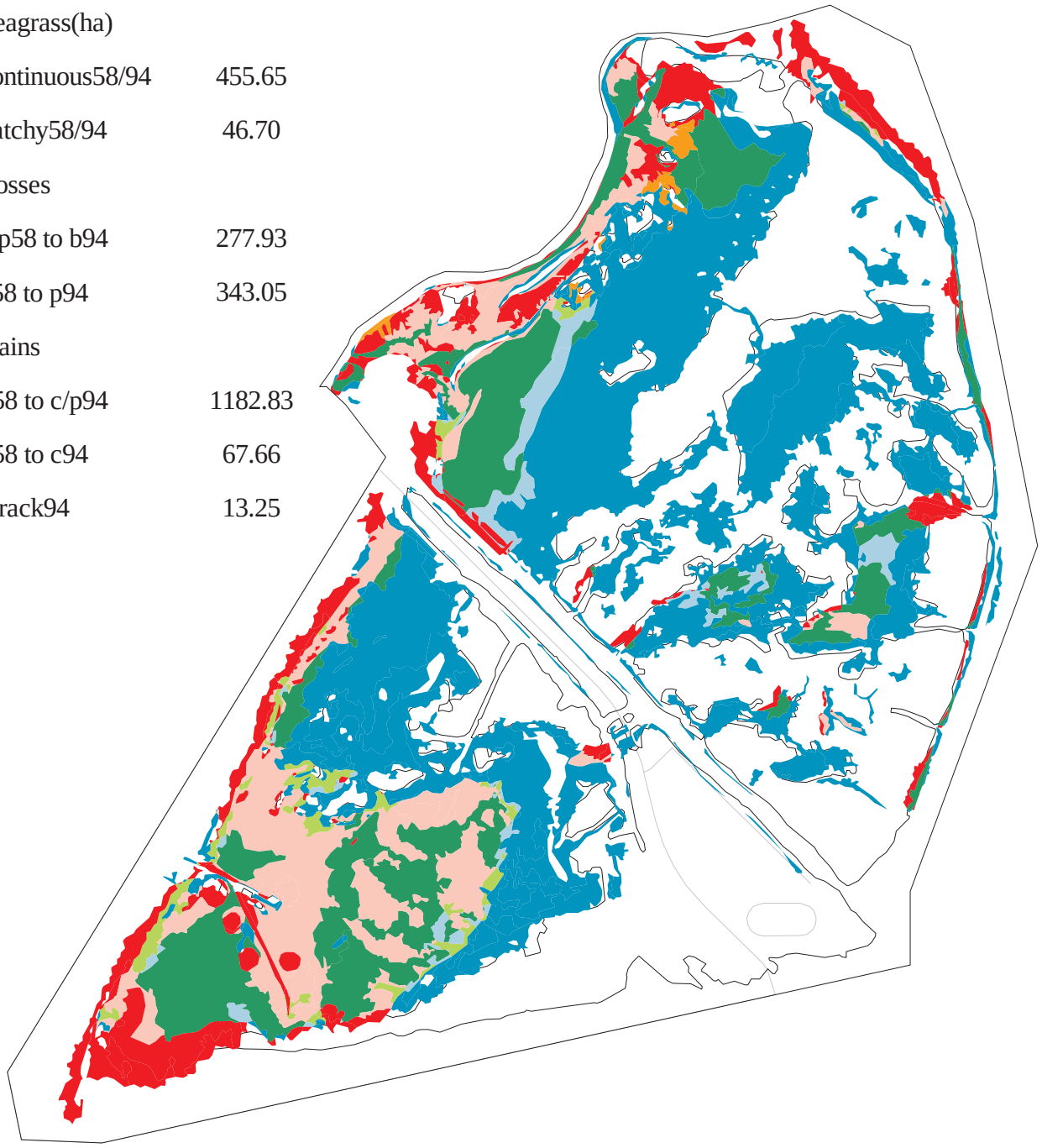


Figure 29. Changes in seagrass distribution for (A) North and (B) South Redfish Bay areas between 1958, 1975, and 1994 periods. Acreage of patchy and continuous seagrass beds is shown.

Figure 30. Seagrass distribution changes between 1958 to 1994 in Harbor Island area.

Harbor Island
Seagrass Changes 1958 - 1994

Seagrass(ha)	
continuous58/94	455.65
patchy58/94	46.70
Losses	
c/p58 to b94	277.93
c58 to p94	343.05
Gains	
b58 to c/p94	1182.83
p58 to c94	67.66
wrack94	13.25



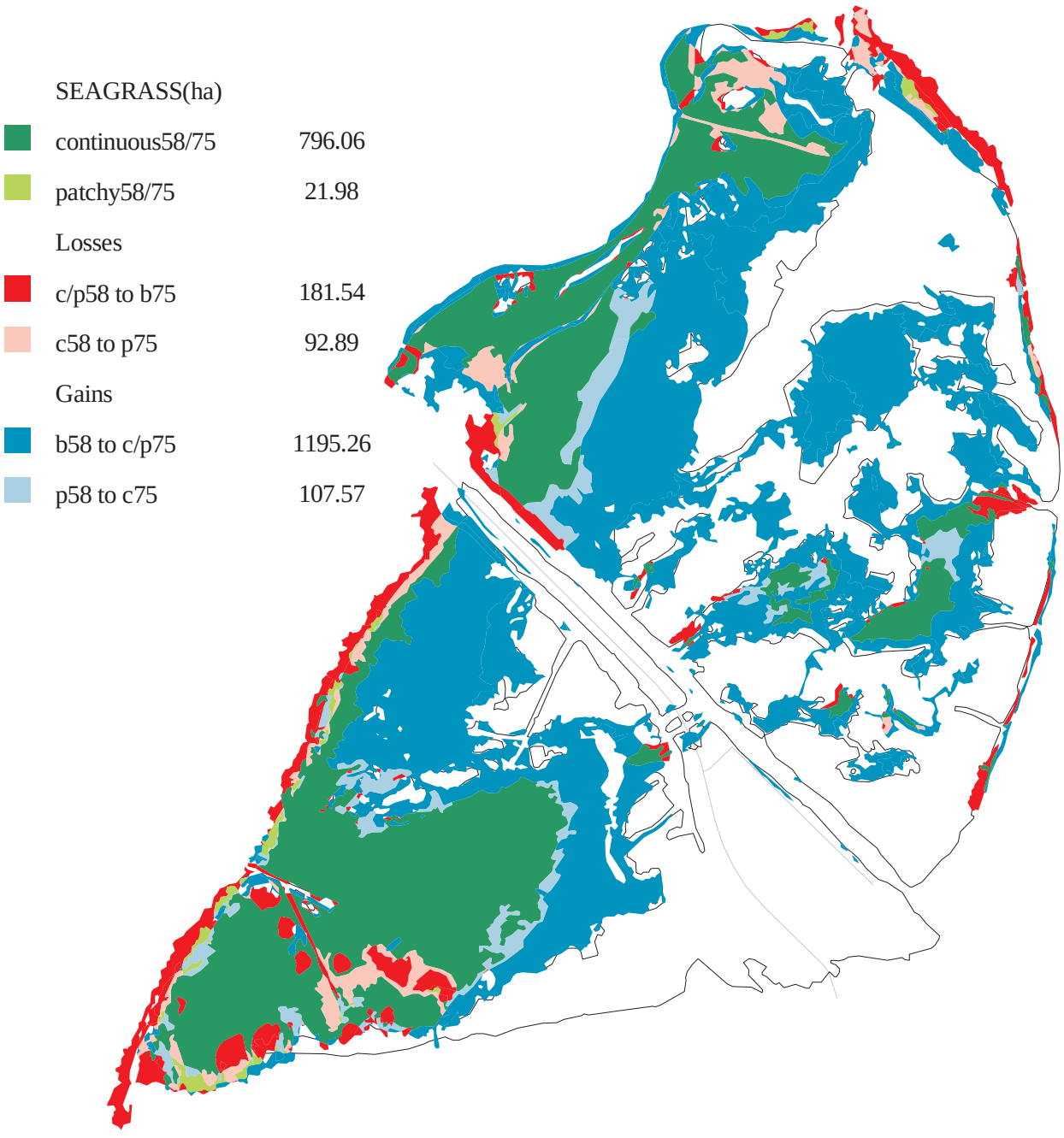
Scale 1:55000

0 1 2 3 4 5

kilometers

Figure 31. Seagrass distribution changes between 1958 to 1975 in Harbor Island area.

Harbor Island
Seagrass Changes 1958 - 1975



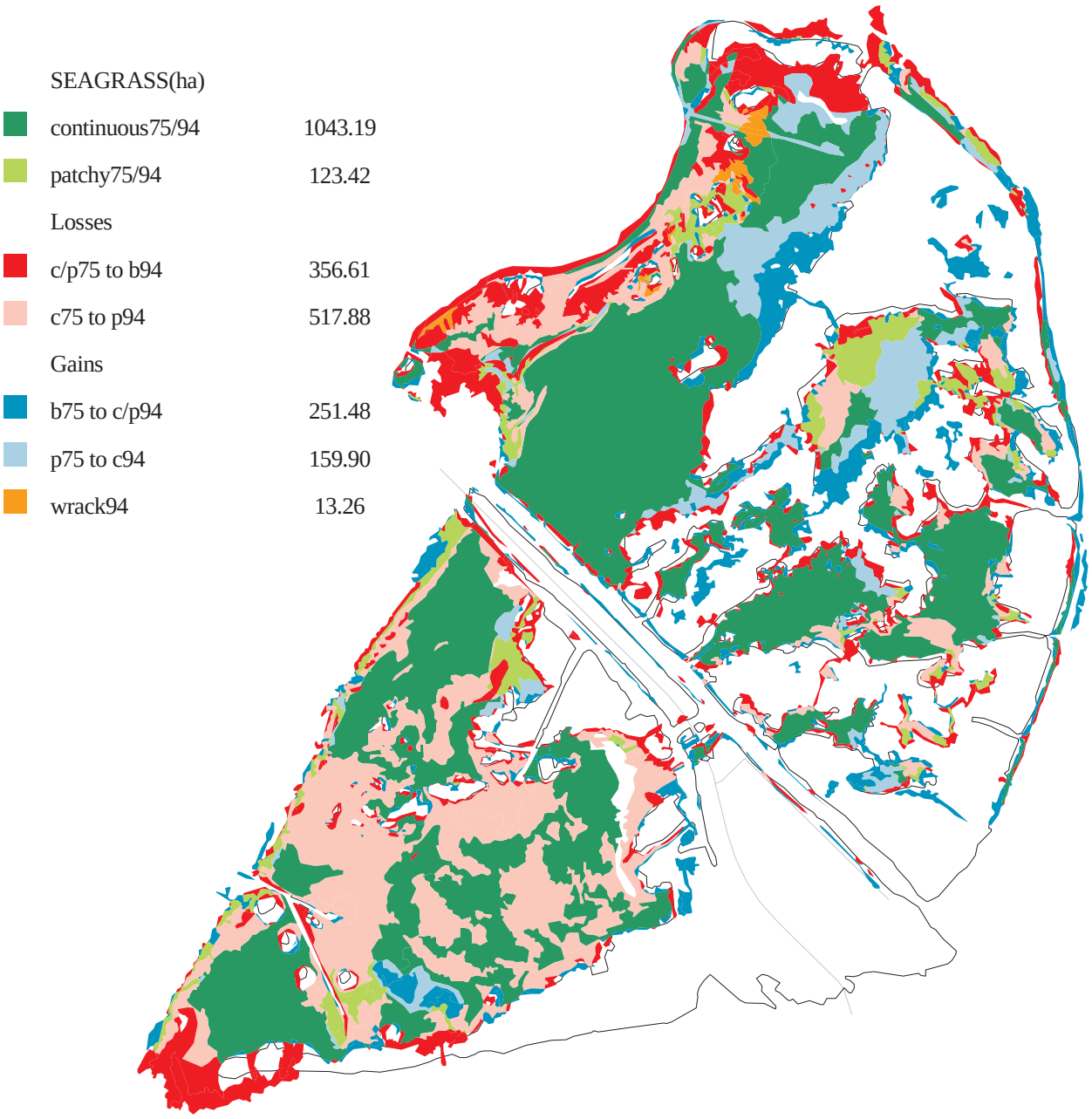
Scale 1:55000

0 1 2 3 4 5

kilometers

Figure 32. Seagrass distribution changes between 1975 to 1994 in Harbor Island area.

Harbor Island
Seagrass Changes 1975 - 1994



Scale 1:55000

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kilometers

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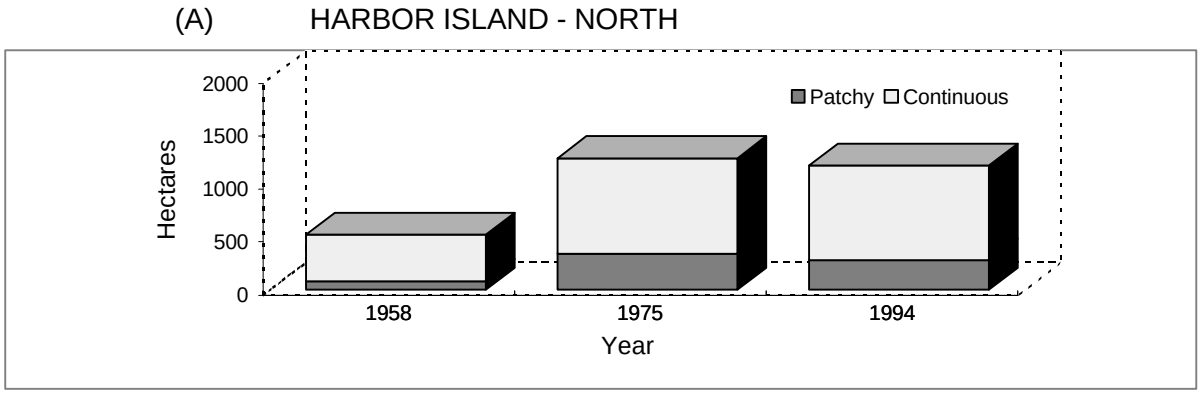


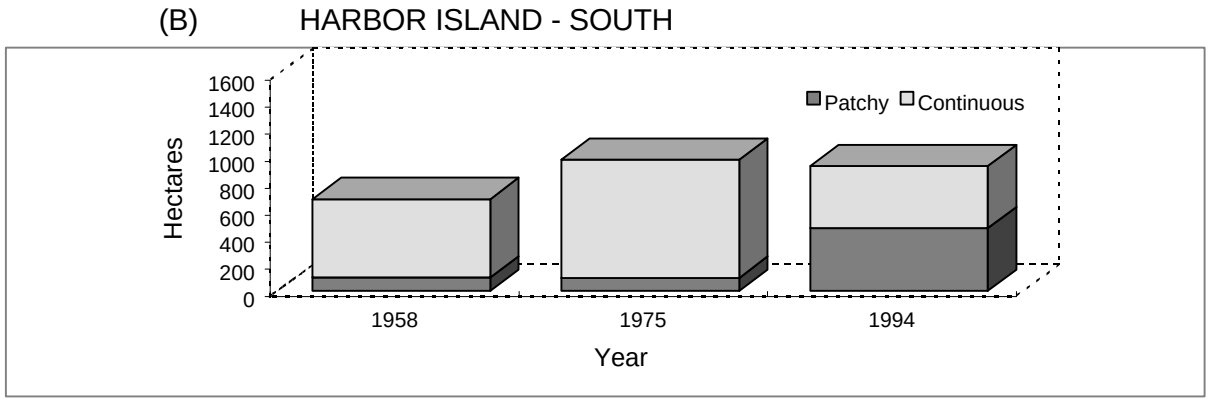


Figure 33. Changes in seagrass distribution for (A) North and (B) South Harbor Island areas between 1958, 1975, and 1994 periods. Acreage of patchy and continuous seagrass beds is shown.

Figure 34. Relationship between seagrass species distributions and seagrass bed changes over 1958 – 1994 period in Redfish Bay/Harbor Island complex.

Seagrass Change 1958 - 1994 & Species Distribution for Redfish Bay/Harbor Island

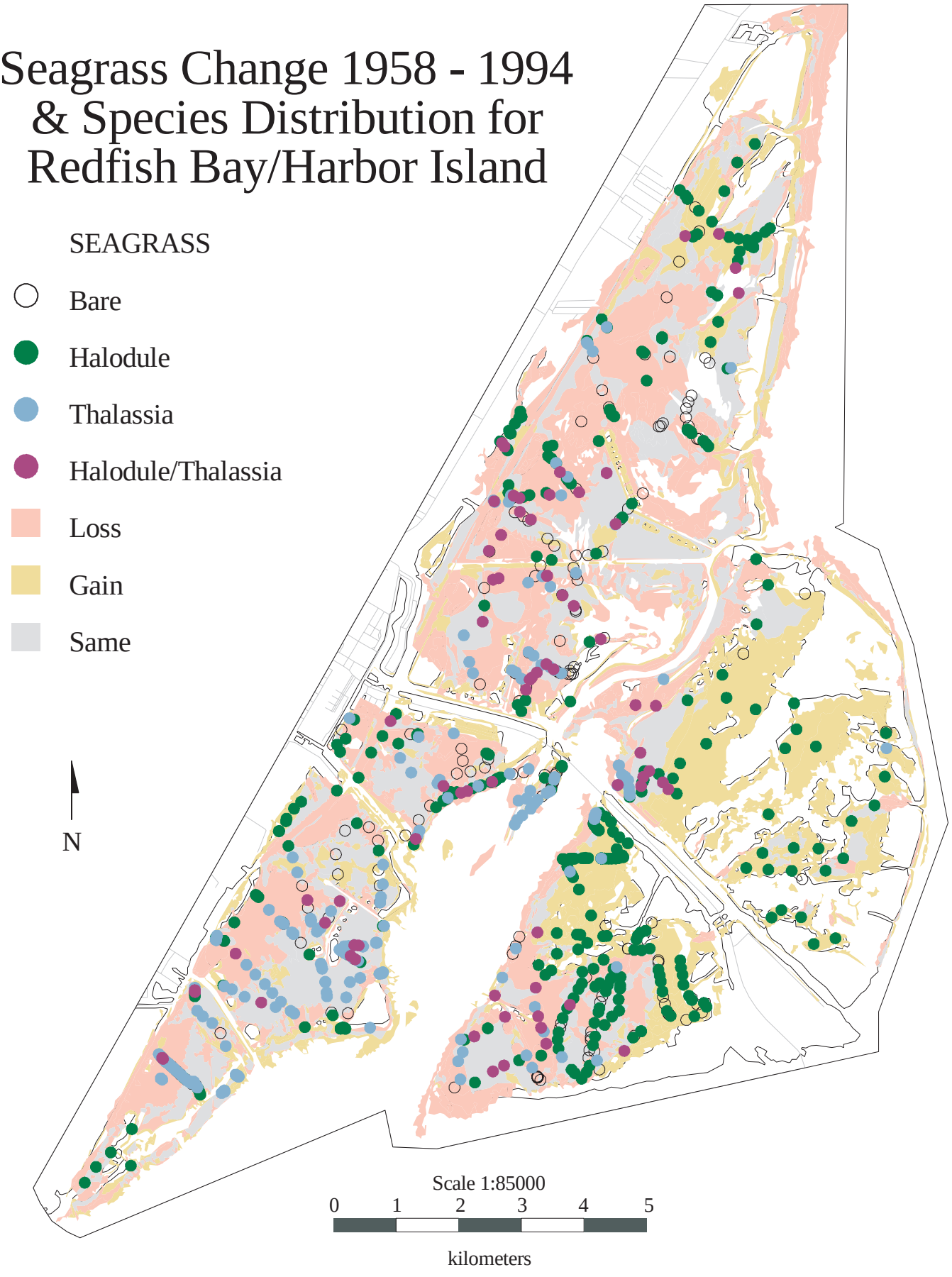


Figure 35. Seagrass distribution changes between 1974 to 1994 for Mustang Island and Upper Laguna Madre area.

Mustang Island/Upper Laguna Madre Seagrass Coverages 1974-1994

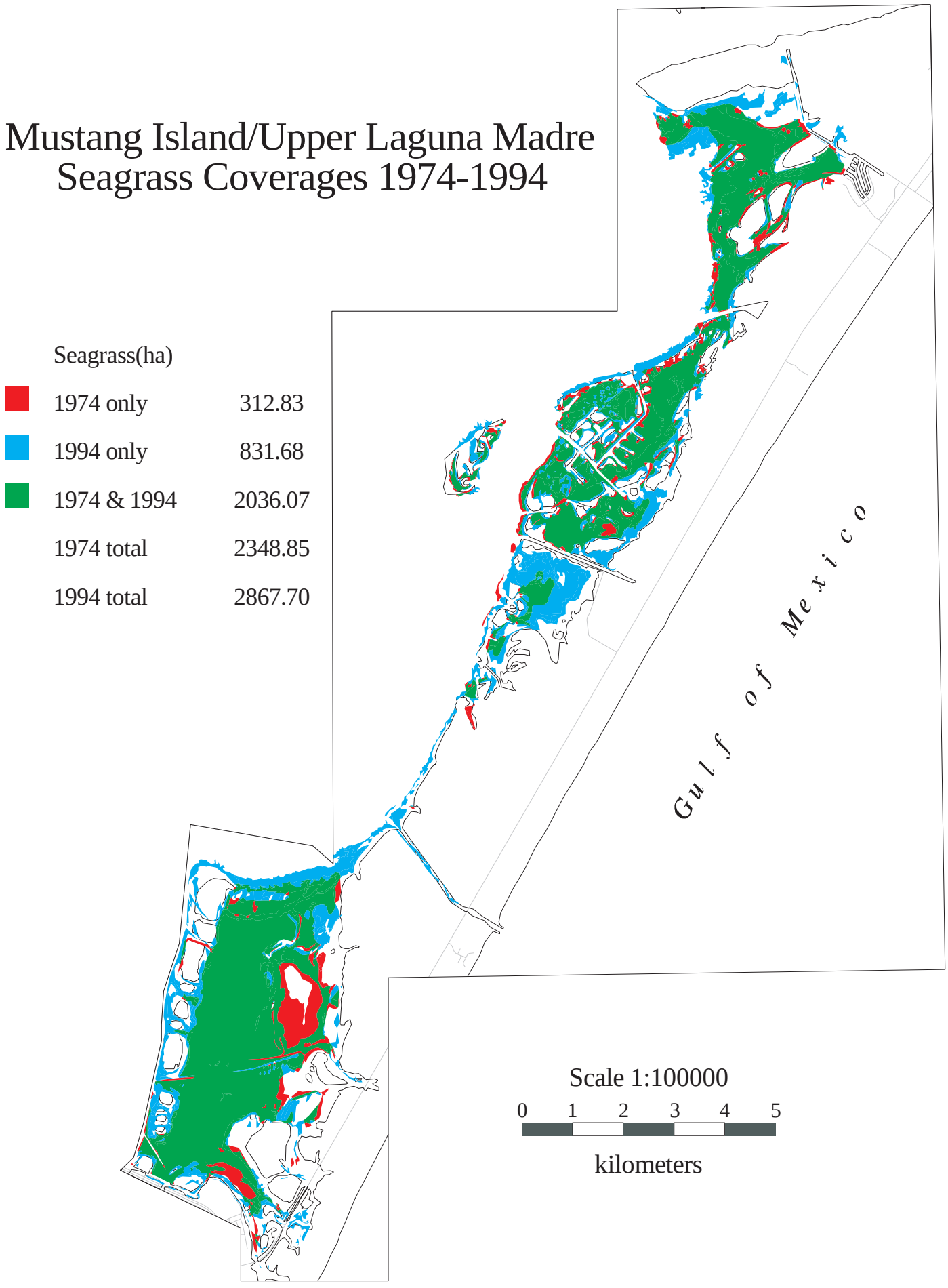
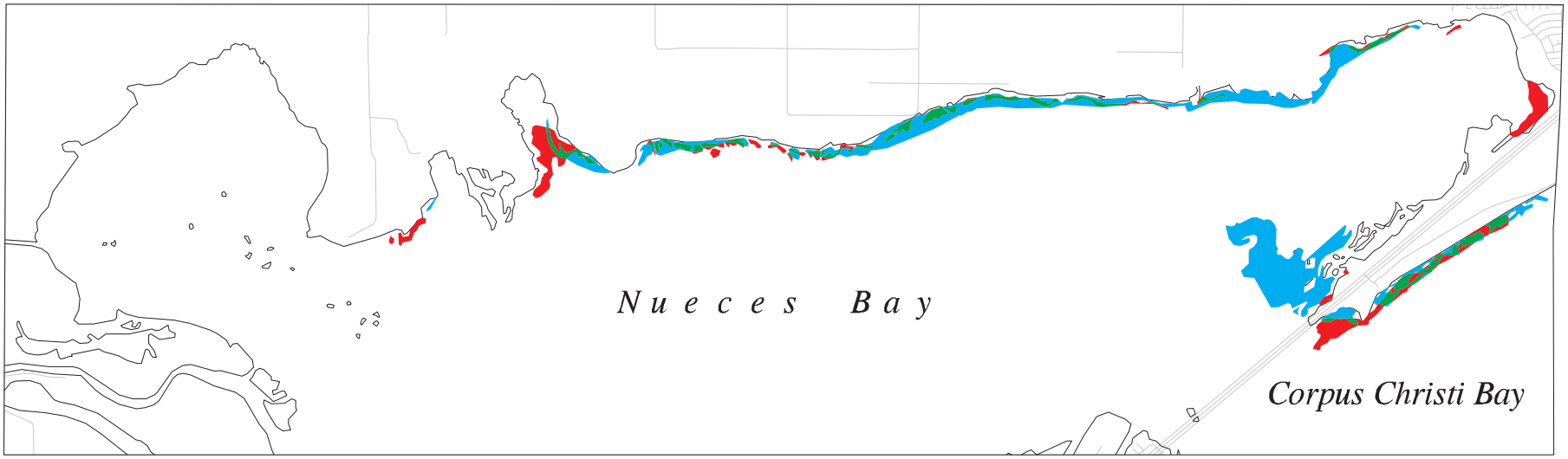


Figure 36. Seagrass distribution changes between 1961 to 1989 for Nueces Bay area.

Nueces & North Corpus Christi Bays
Seagrass Changes 1961 - 1989



Scale 1:80000

0 1 2 3 4 5

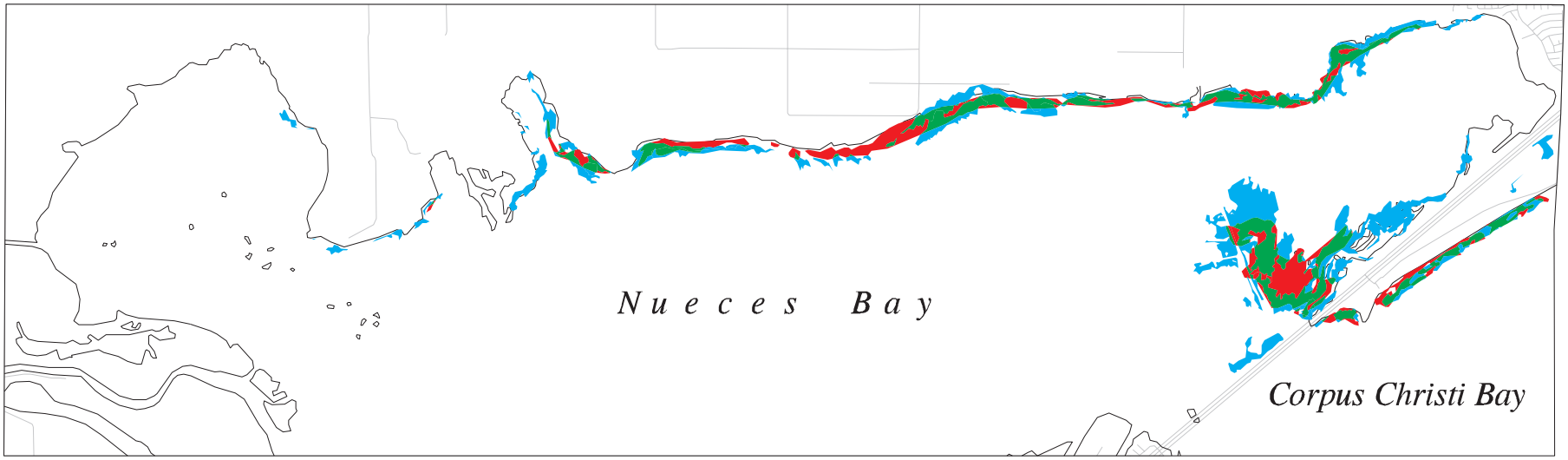
kilometers

NUECES SEAGRASS(ha)	
1961 only	44.63
1989 only	165.40
1961 & 1989	34.23
1961 total	78.86
1989 total	199.63

N CORPUS SEAGRASS(ha)	
1961 only	19.55
1989 only	11.77
1961 & 1989	15.76
1961 total	35.31
1989 total	27.53

Figure 37. Seagrass distribution changes between 1989 to 1994 for Nueces Bay area.

Nueces & North Corpus Christi Bays
Seagrass Changes 1989 - 1994



Scale 1:80000

0 1 2 3 4 5

kilometers

NUECES SEAGRASS(ha)	
1989 only	85.00
1994 only	178.97
1989 & 1994	114.63
1989 total	199.63
1994 total	293.60

N CORPUS SEAGRASS(ha)	
1989 only	10.43
1994 only	13.07
1989 & 1994	17.08
1989 total	27.51
1994 total	30.15

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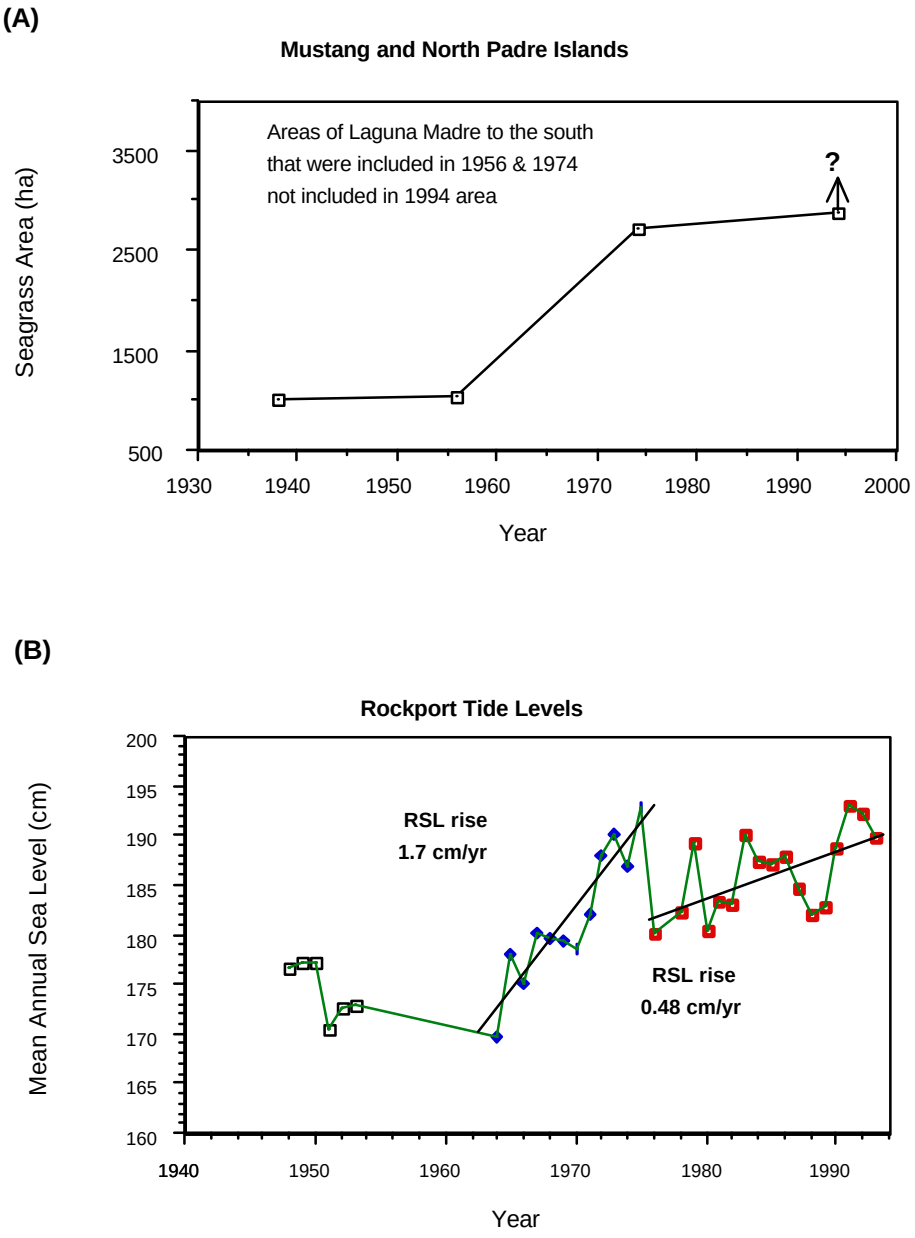


Figure 38. Comparison between (A) expansion of seagrass on Mustang Island and (B) rates of relative sea-level rise as recorded by the Rockport tide gauge. Tide gauge data from NOAA.

Figure 39. Map showing location and time of dredging of navigation channels and dredge disposal sites for Redfish Bay/Harbor Island complex.

Redfish Bay/Harbor Island
Spoil Areas & Channels 1958 - 1994

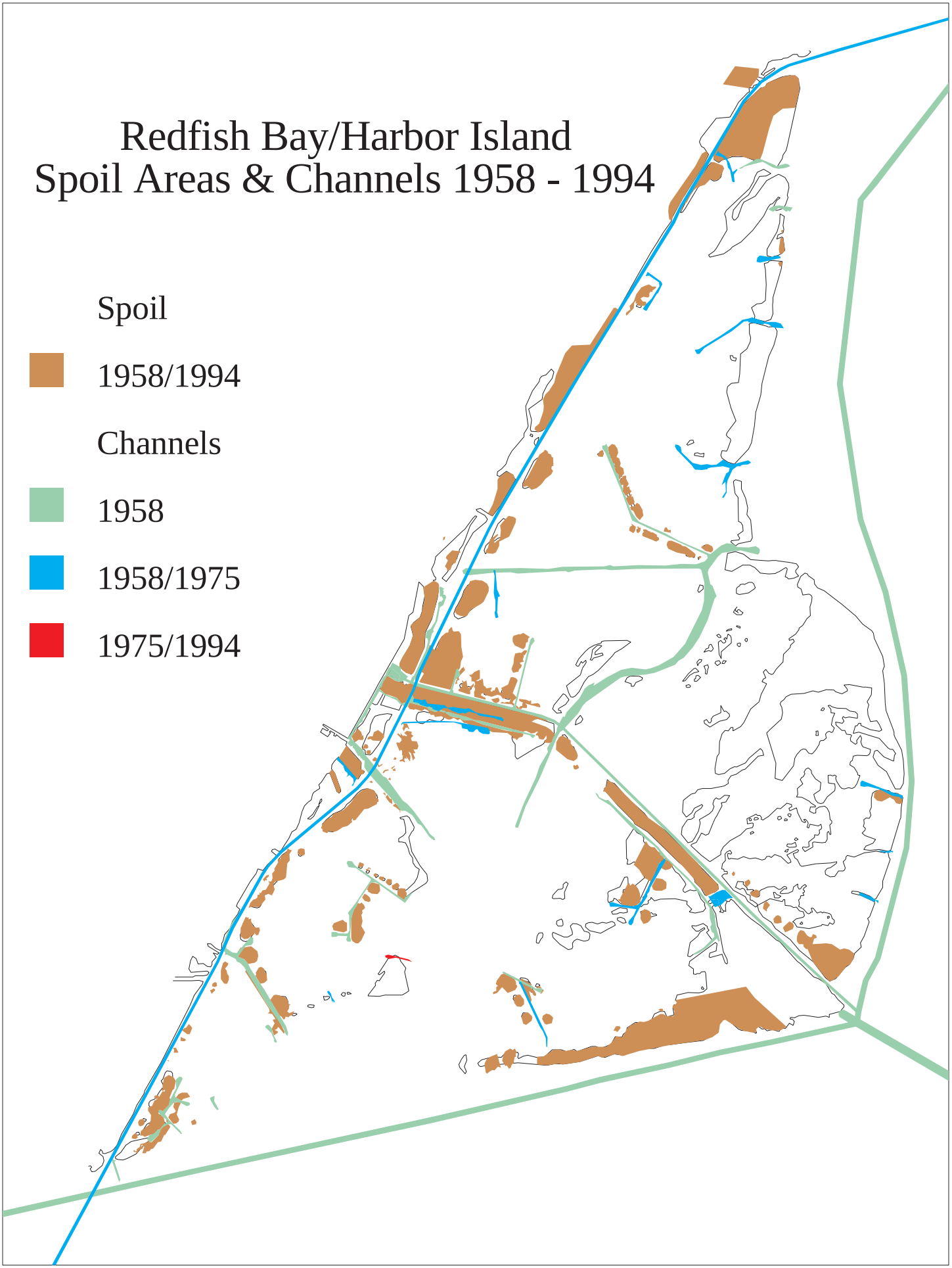
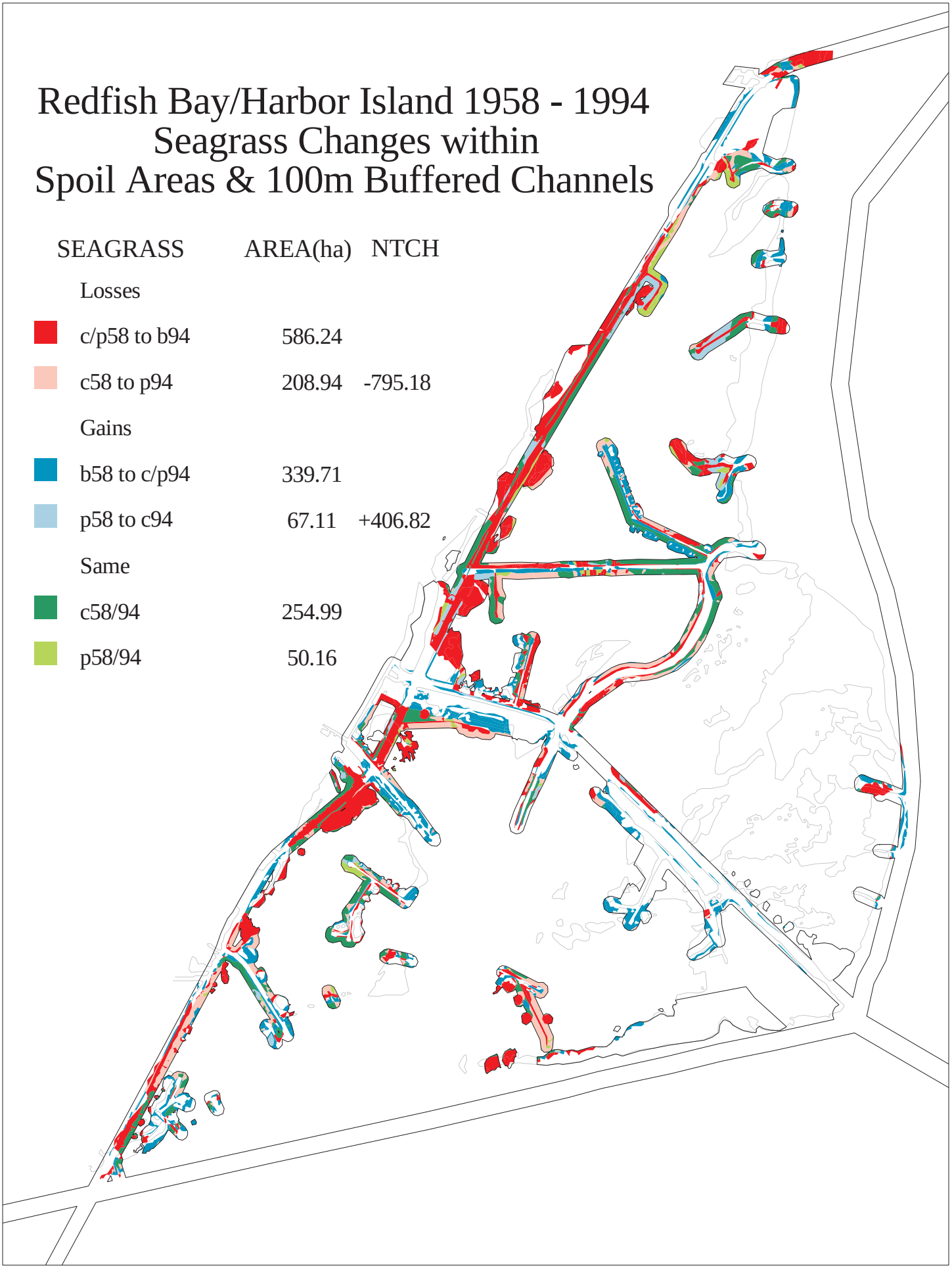


Figure 40. Seagrass distribution changes between 1958 to 1994 within dredge disposal areas and a 100 m buffer zone around navigation channels for the Redfish Bay/Harbor Island complex.

Redfish Bay/Harbor Island 1958 - 1994
Seagrass Changes within
Spoil Areas & 100m Buffered Channels

SEAGRASS	AREA(ha)	NTCH
Losses		
c/p58 to b94	586.24	
c58 to p94	208.94	-795.18
Gains		
b58 to c/p94	339.71	
p58 to c94	67.11	+406.82
Same		
c58/94	254.99	
p58/94	50.16	



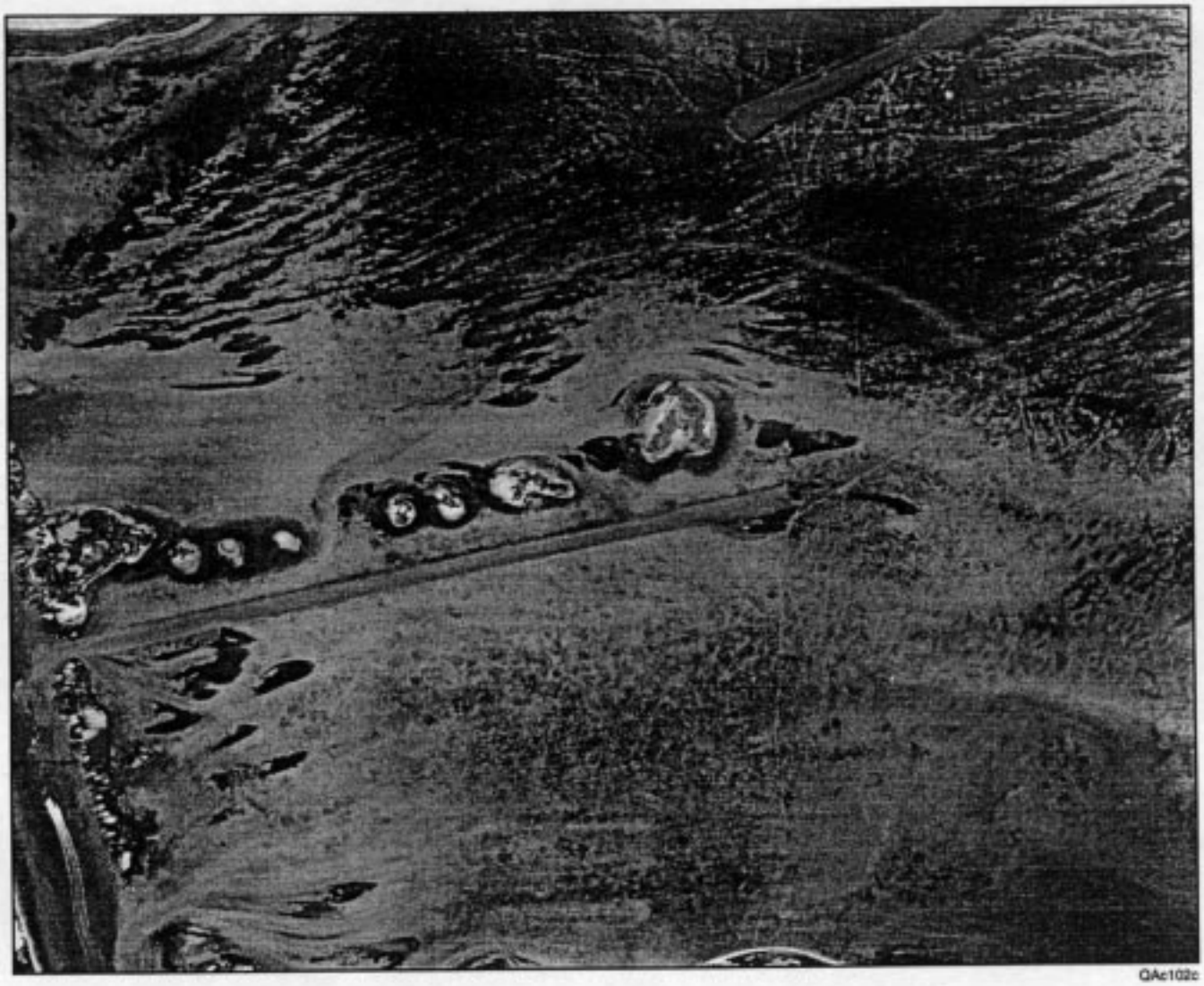


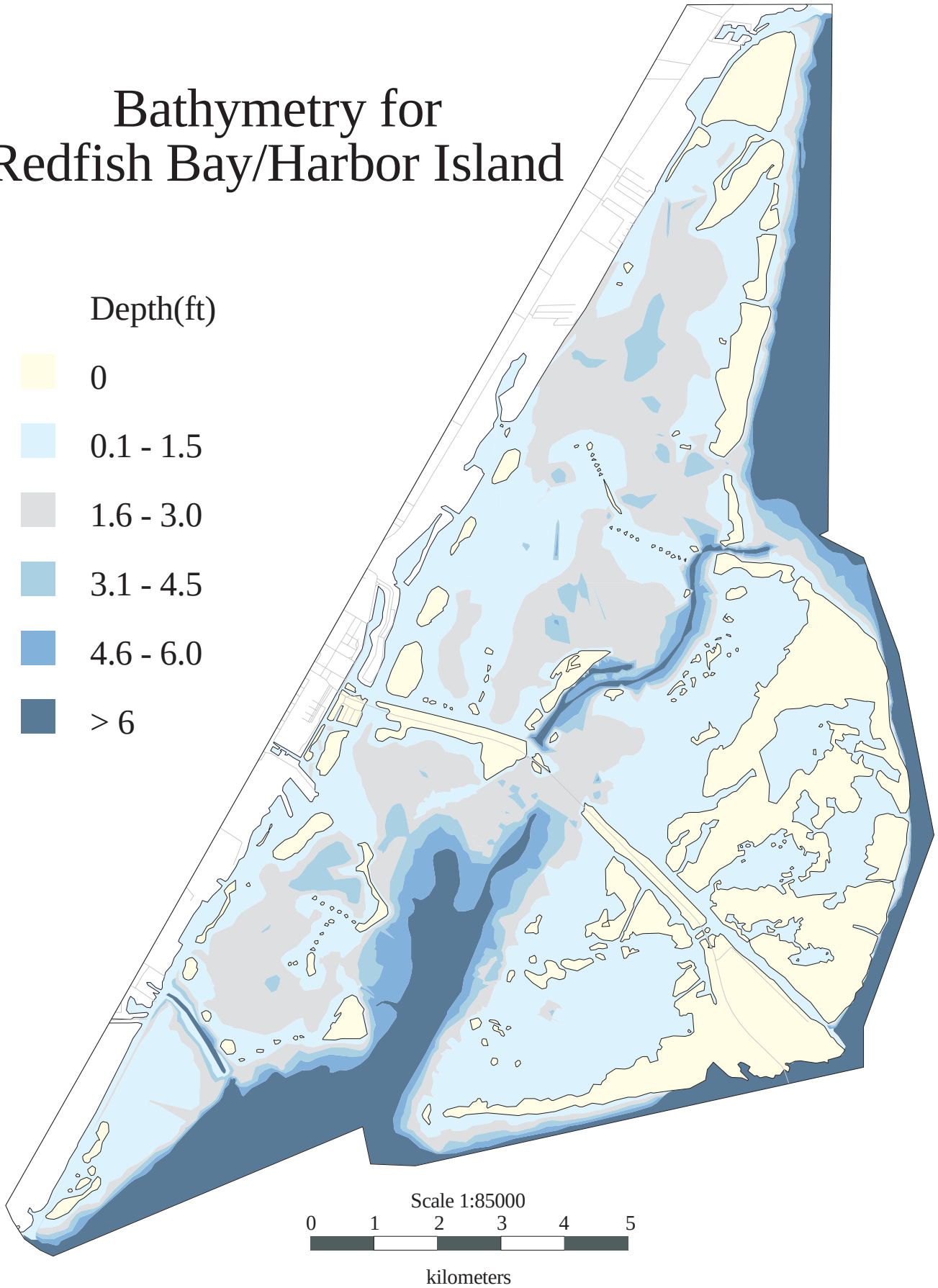
Figure 41. Aerial photograph from 1994 at 1:12,000 scale showing fragmented (patchy) seagrass beds in north Redfish Bay. Light streaks through grassbeds in upper right and right center denote tracks from motorboat propeller scarring.

QAc101c

Figure 42. Aerial photograph from 1975 at ca 1:15,000 scale showing continuous, dense seagrass beds from same area of Redfish Bay as in Figure 41.

Figure 43. Map showing depth (bathymetry) zones developed by contour modeling for Redfish Bay/Harbor Island complex.

Bathymetry for Redfish Bay/Harbor Island



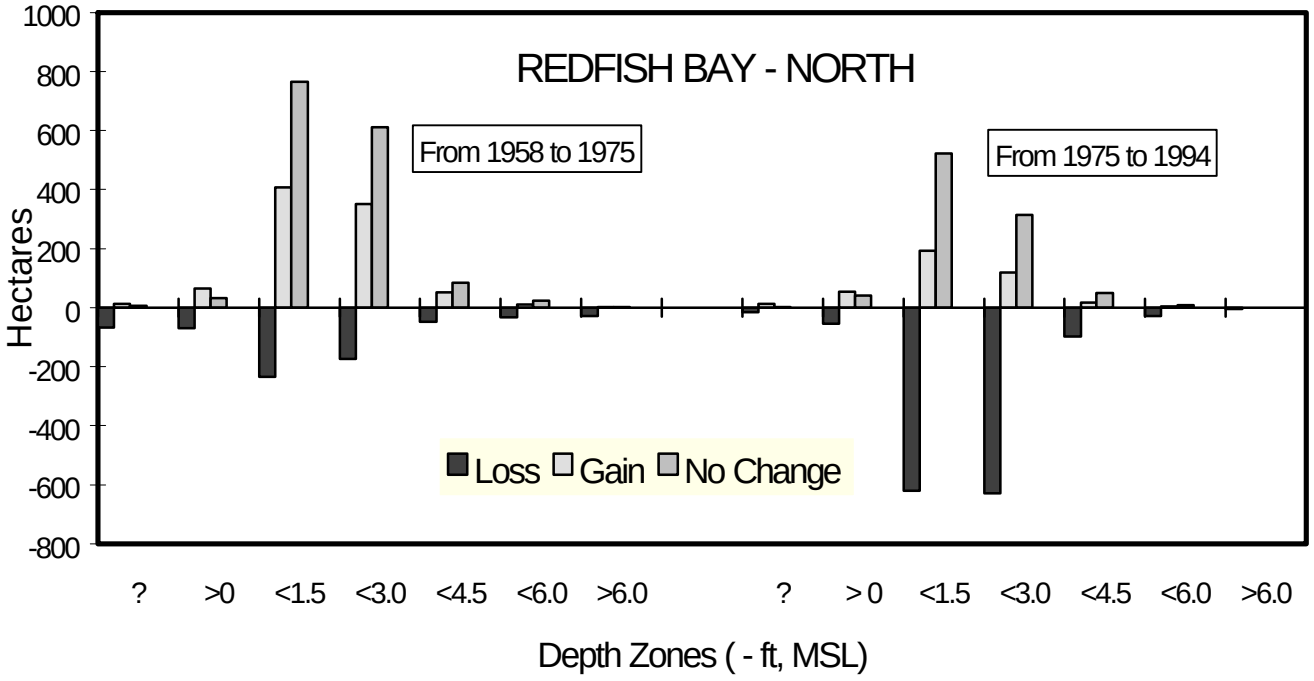


Figure 44. Graph of seagrass acreage changes occurring in different depth zones of north Redfish Bay area over two time increments (1958 - 1975 and 1975 - 1994).

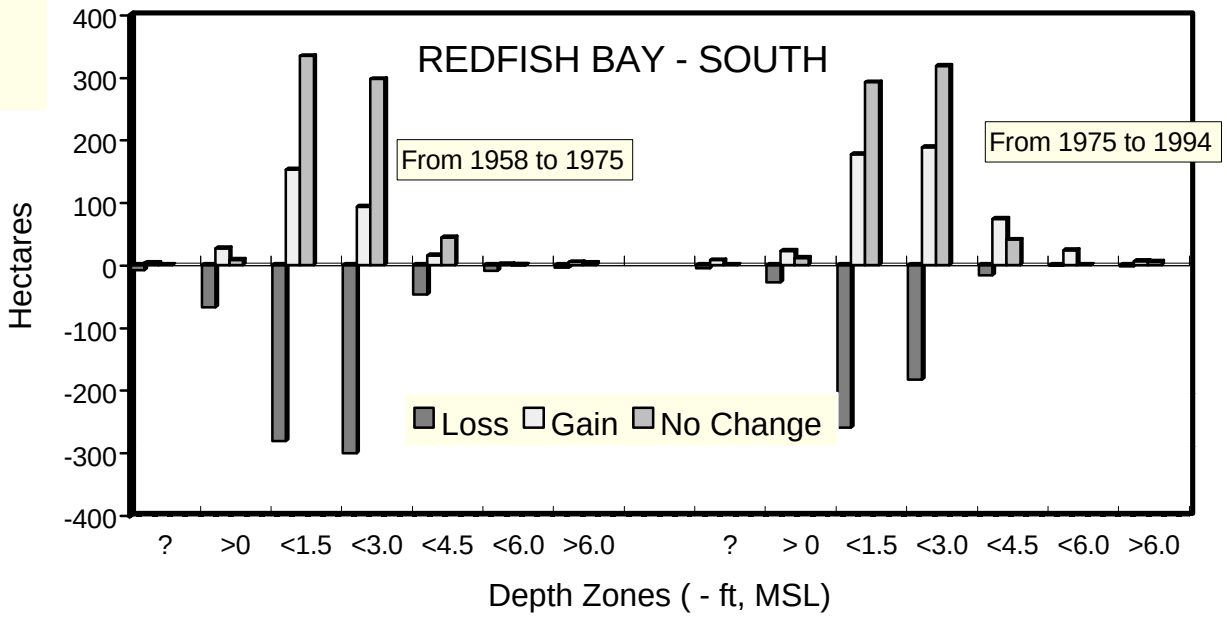


Figure 45. Graph of seagrass acreage changes occurring in different depth zones of south Redfish Bay area over two time increments (1958 - 1975 and 1975 - 1994).

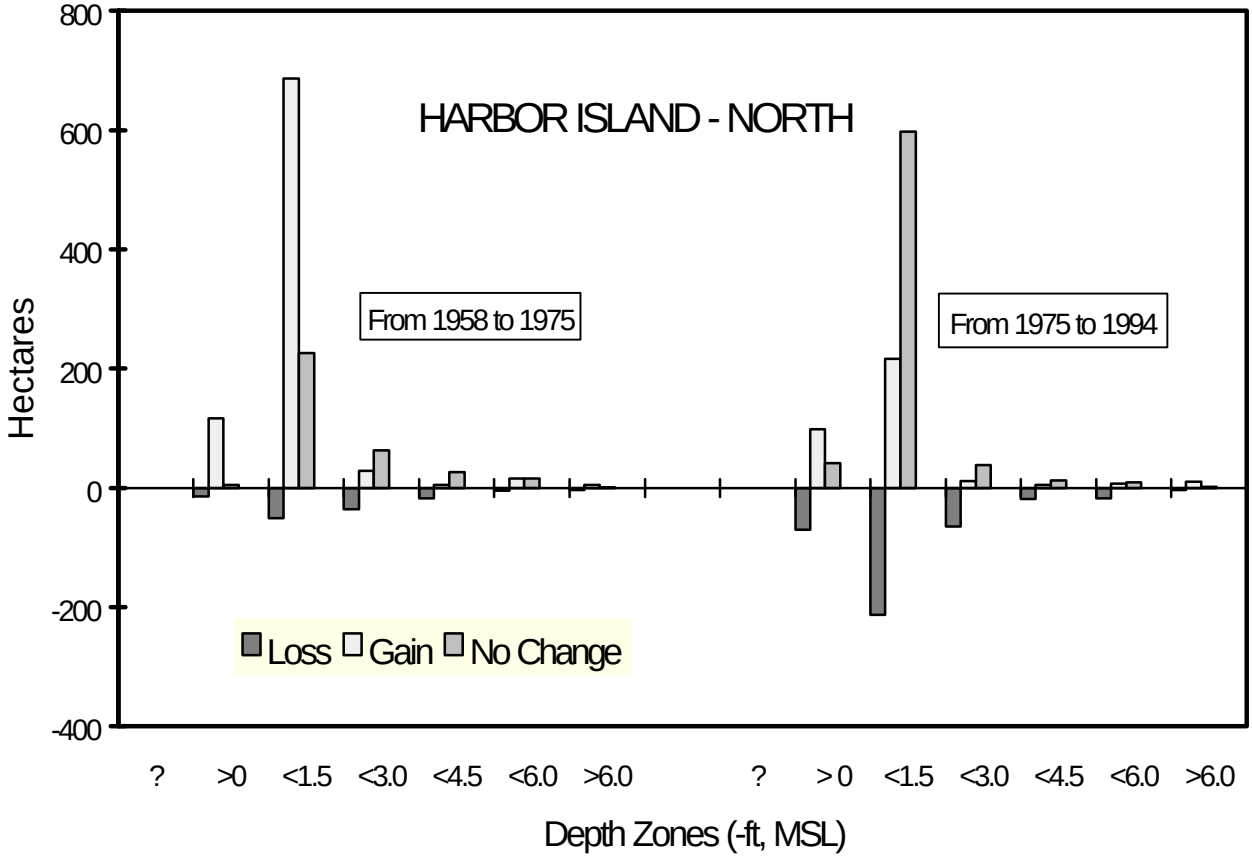


Figure 46. Graph of seagrass acreage changes occurring in different depth zones of north Harbor Island area over two time increments (1958 -1975 and 1975 - 1994).

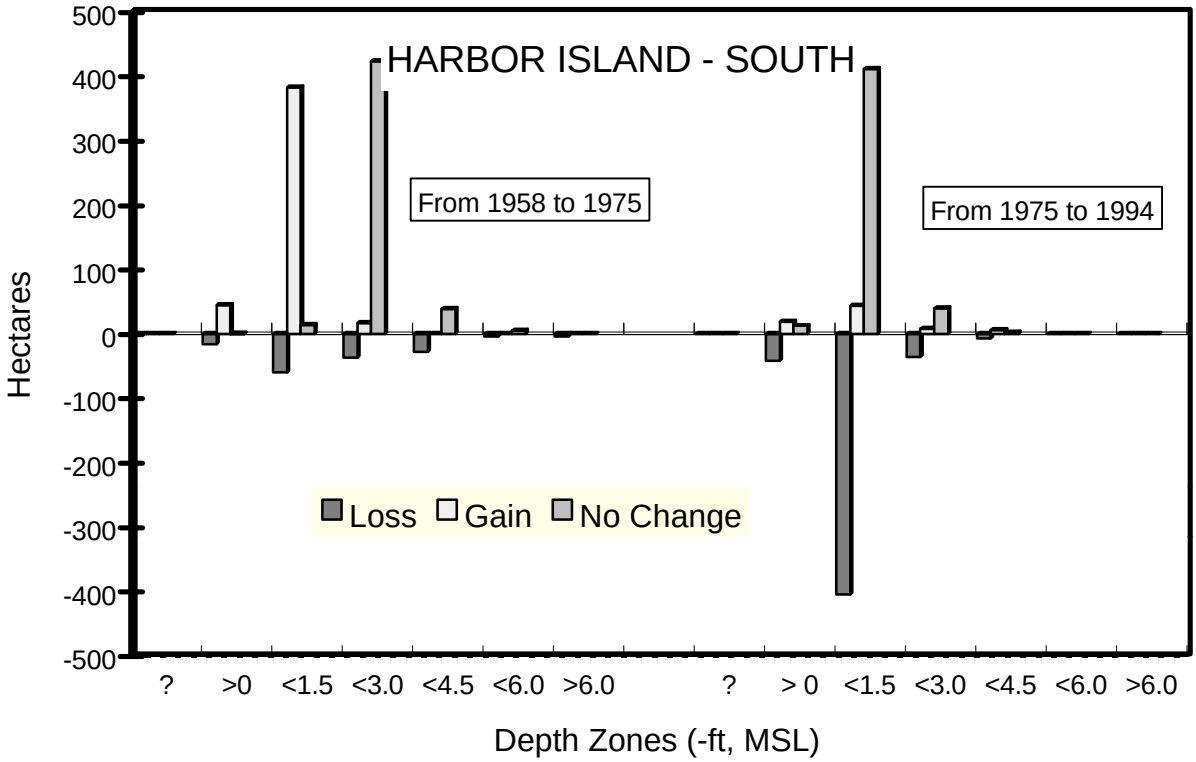


Figure 47. Graph of seagrass acreage changes occurring in different depth zones of south Harbor Island area over two time increments (1958 - 1975 and 1975-1994).

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