



United States Department of the Interior

FISH AND WILDLIFE SERVICE



Field Office
1612 June Avenue
Panama City, Florida 32405-3721

CHANGE IN SUBMERSED VEGETATION
IN PERDIDO BAY, 1940-1987

Dr. Jacqueline Lane
Friends of Perdido Bay
10738 Lillian Highway
Pensacola, Florida 32506

Dear Dr. Lane:

Enclosed for you and the other reviewers listed below is a draft report prepared for the Perdido Bay Cooperative Management Project, "Changes in Submersed Vegetation in Perdido Bay, 1940-1987". This is to request your comments on the draft by January 22, 1991. The blue line maps included with the draft will be printed in black and white for the final report. Thank you for your assistance and cooperation. Please contact me at 904/769-0552 if you need additional information.

Sincerely,

Lloyd Stith
Fish and Wildlife Biologist

Enclosure

Reviewers:

Mr. Robert Lord, EPA, Atlanta, GA
Technical Advisory Committee
Dr. David Flemer, EPA, Gulf Breeze, FL
Dr. William Davis, EPA, Gulf Breeze, FL
Dr. George Crozier, MESC, Dauphin Island, AL
Dr. David Gibson, UWF, Pensacola, FL
Mr. Mark Van Hoose, AMRD, Dauphin Island, AL
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DRAFT

INTRODUCTION

**CHANGES IN SUBMERSED VEGETATION
IN PERDIDO BAY, 1940-1987**

Prepared by

Division of Ecological Services

Panama City Field Office

U.S. Fish and Wildlife Service

Southeast Region

Atlanta, Georgia

December 1990

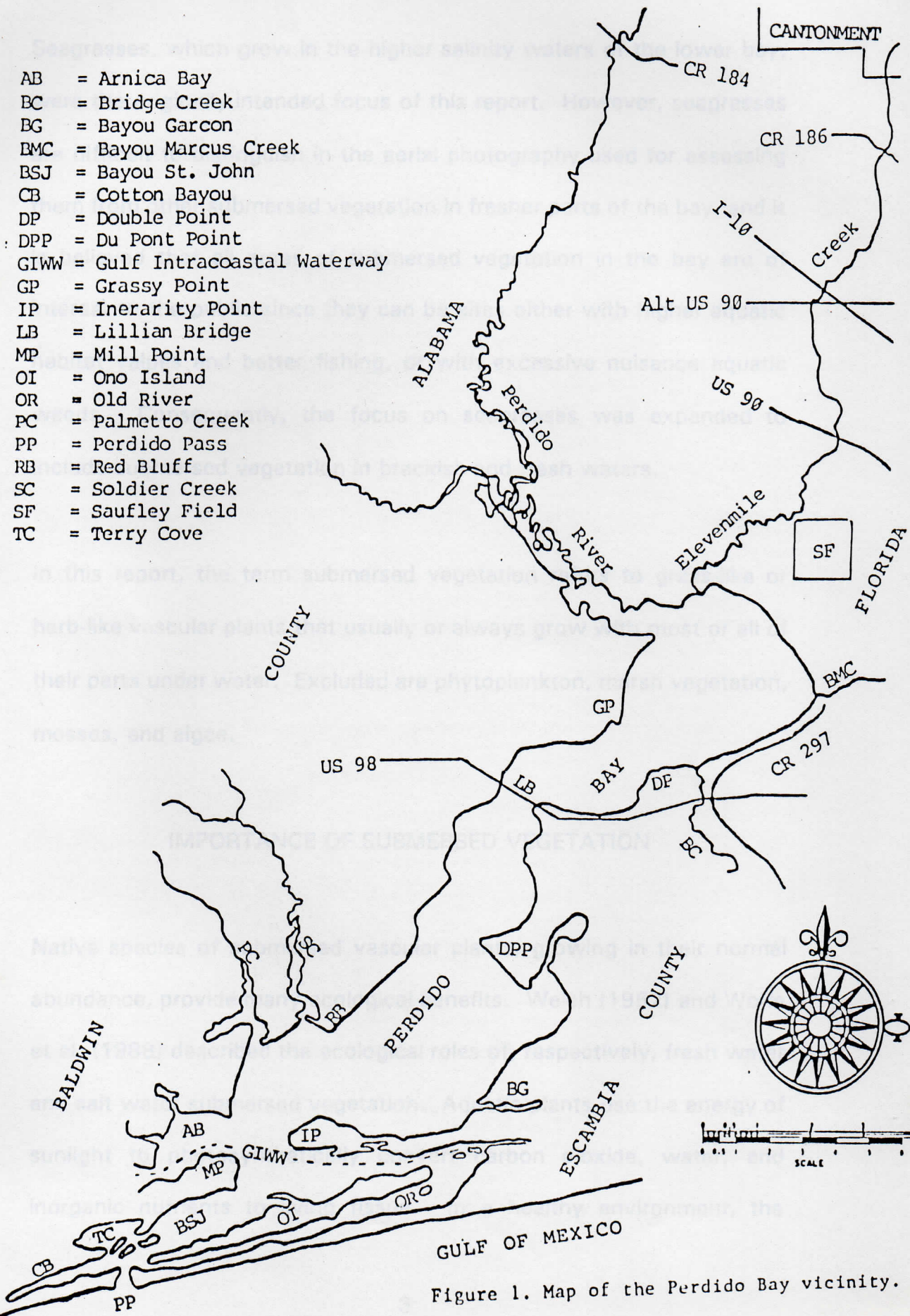


Figure 1. Map of the Perdido Bay vicinity.

Table 1: Changes of submerged vegetation in Perdido Bay; 1940-41, 1979, and 1987.

Acres of Submersed Vegetation, and Percent Changes * from Previous Dates.

Map Quadrangle	Year	Continuous	Patchy	Total
Seminole	1940-41	0	0	0
	1979	0	0	0
	1987	0	0	0
Lillian	1940-41	3	0	3
	1979	8 +167%	7 +700%	15
	1987	8 +167% 0%	4 +400% -43%	12 +300% -20%
West Pensacola	1940-41	0	0	0
	1979	0	0	0
	1987	0	0	0
Perdido Bay	1940-41	559	234	793
	1979	105 -81%	332 +42%	437 -45%
	1987	287 -49% +173%	247 +6% -26%	534 -33% +22%
Orange Beach (1940-41 photographic coverage)	1940-41	337	71	408
	1979	19 -94%	88 +24%	107 -74%
	1987	56 -83% +195%	17 -76% -81%	73 -82% -32%
Orange Beach (1979 & 1987 photographic coverage area)	1979	23	98	121
	1987	79 ---- +71%	20 ---- -76%	99 ---- -18%
All Quadrangles (1940-41 photographic coverage area)	1940-41	899	305	1201
	1979	132 -85%	427 +40%	559 -53%
	1987	351 -61% +166%	268 -12% -37%	619 -48% +11%
All Quadrangles (1979 & 1987 photographic coverage area)	1979	136	437	573
	1987	374 ---- +175%	271 ---- -38%	645 ---- +13%

* The first percentage on a line under each heading is the change from 1940-41. The second percentage is the change from 1979.