

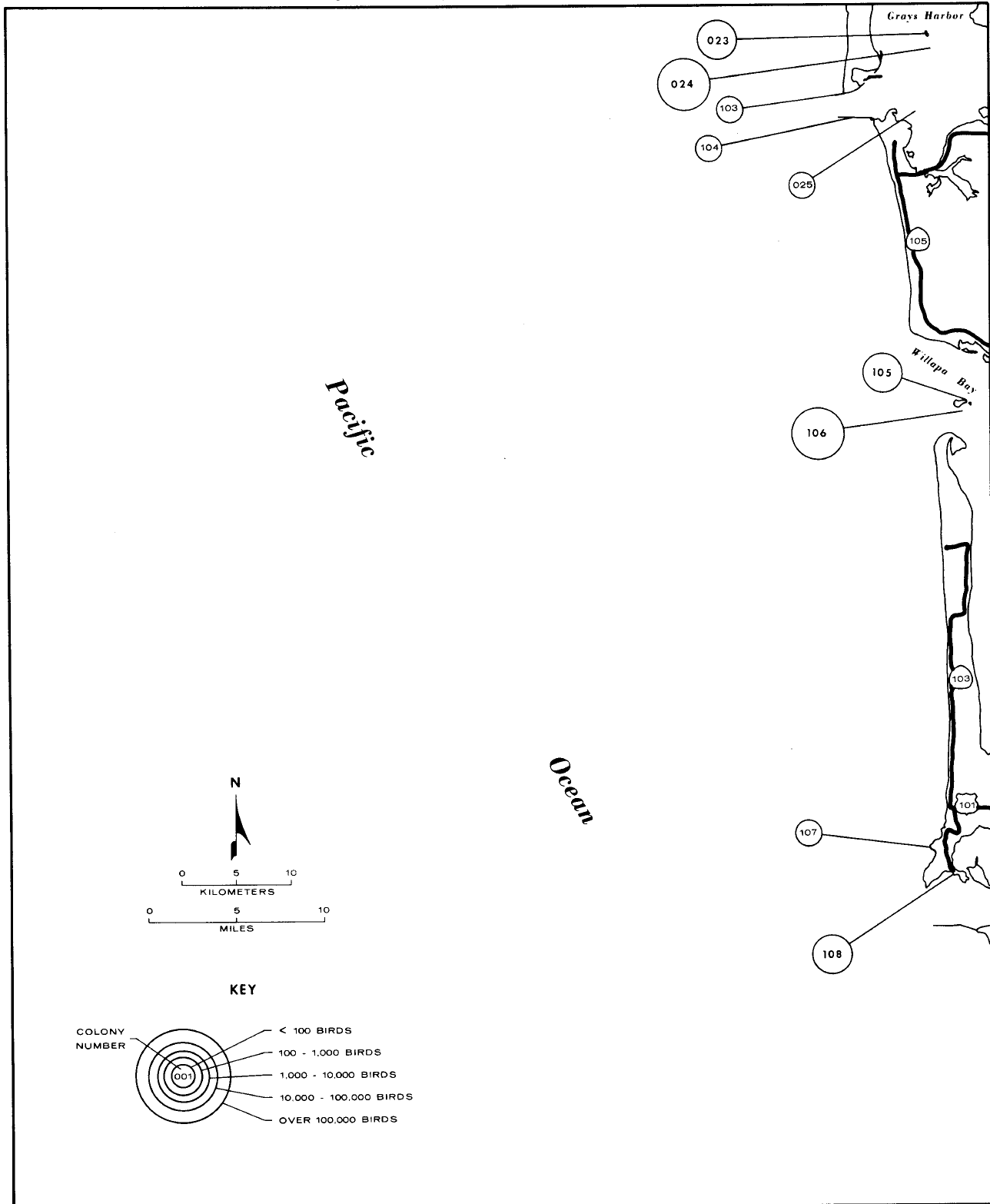
174
Copalis Beach
(South)

The map on the facing page is an index to the locations of colonies within map 174, Copalis Beach, South. Note that all colonies on the map are not numbered consecutively from north to south, since many previously unreported sites have been added since initial colony numbers were assigned by Varoujean (1979). On the pages following this map, all colonies are listed sequentially and a detailed map of each is provided.

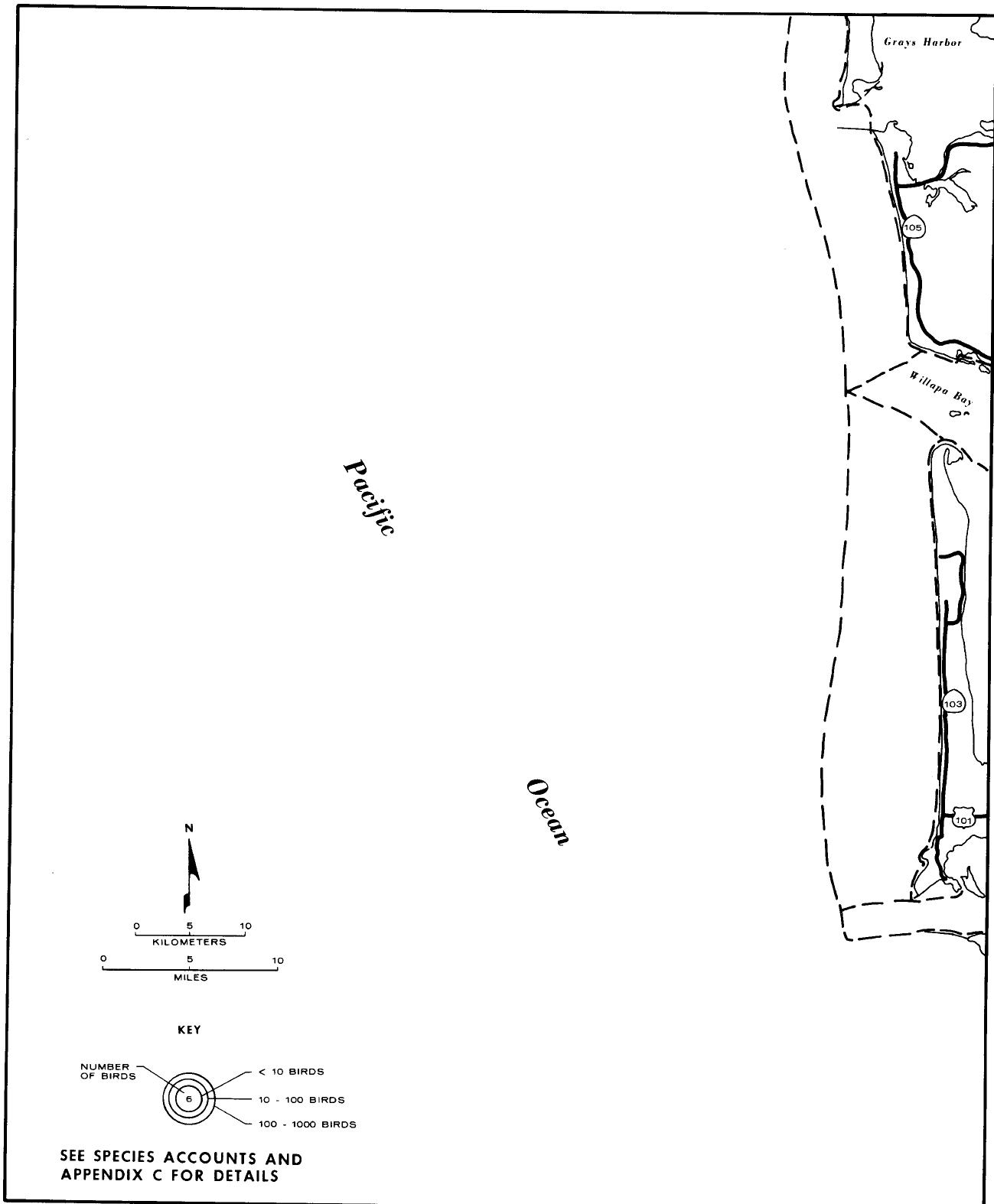
Numbers of breeding seabirds will vary from year to year. Below are the approximate numbers of breeding seabirds within this region.

Double-crested Cormorant	900
Brandt's Cormorant	100
Pelagic Cormorant	240
American Black Oystercatcher	2
Glaucous-winged and Western gulls	6,300
Ring-billed Gull	110
Caspian Tern	7,900
Pigeon Guillemot	70
Marbled Murrelet	no estimate

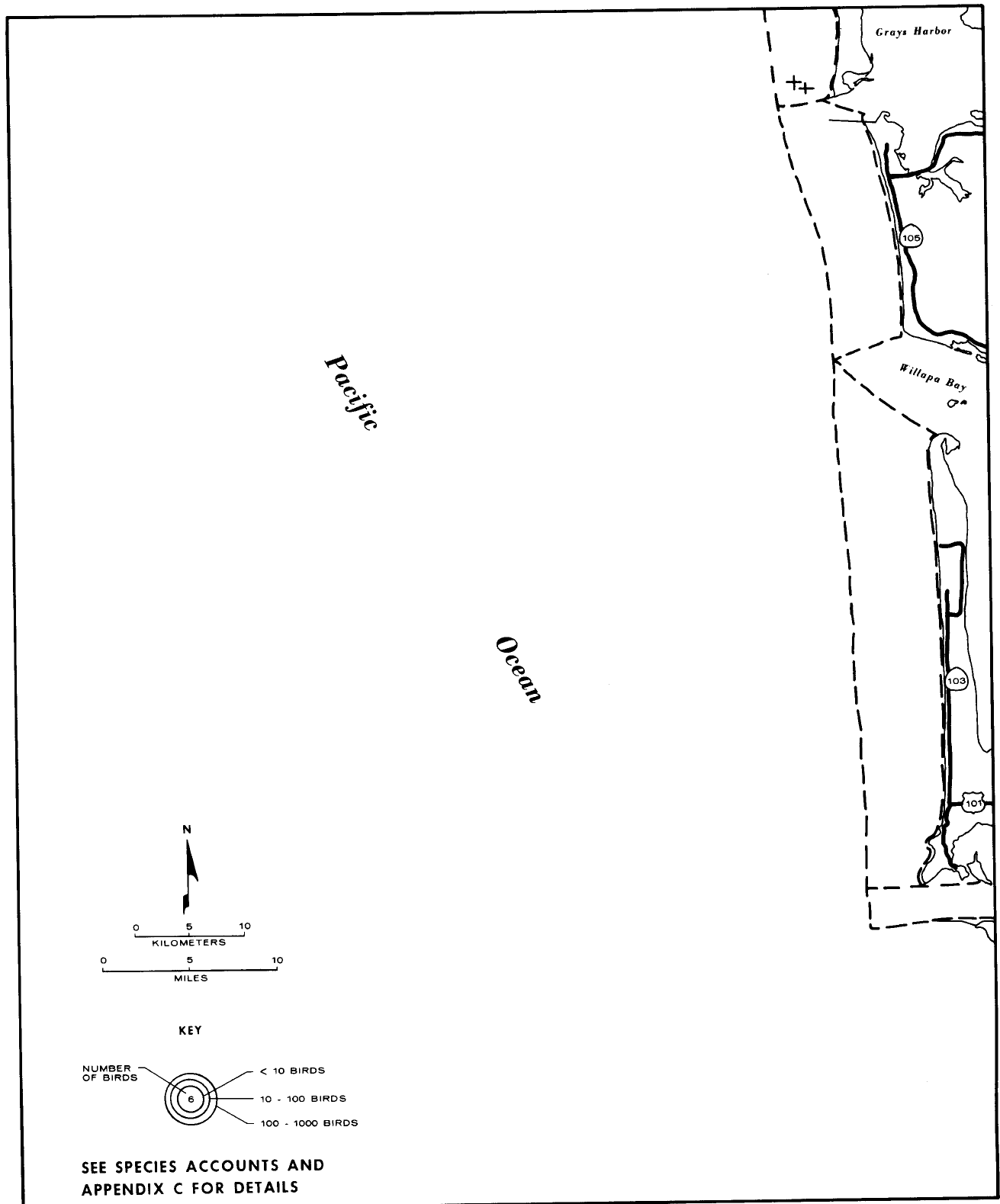
174 (SOUTH) COPALIS BEACH



Relative distribution for Pigeon Guillemots in map area 174 (South) Copalis Beach.



Relative distribution for Marbled Murrelets in map area 174 (South) Copalis Beach.



AREA 174, Copalis Beach, South (cont'd.)

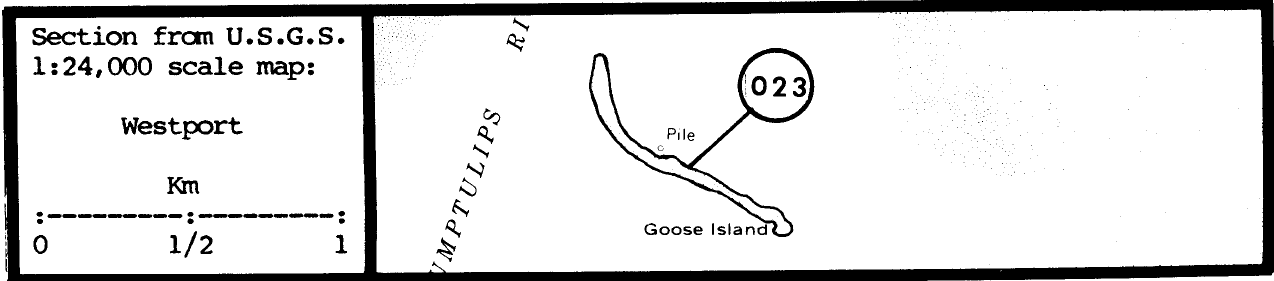
SITE NUMBER	COLONY NAME	LAT.-LONG.				
191	PORT WILLIAMS	48° 07' 00", 123° 03' 00" W				
PIGEON GUILLEMOT	34	SPEICH	05/23/79	B III	255	
PIGEON GUILLEMOT	33	SPEICH	05/26/78	B III	255	
SPECIES NAME	NUMBER BREEDING BIRDS	SOURCE	SURVEY DATE	SURVEY TYPE	REFERENCE DATA QUALITY	

Box gives the most recent or the best estimates available.

223 Goose Island 46°58'40"N, 124°04'10"W

Double-crested Cormorant	916	Washington Dep. Game	06/23/82	A III	203
Glaucous-winged Gull	8+	Alcorn	06/05/82	E -	8
Caspian Tern	N	Washington Dep. Game	06/23/82	A III	203
Total	916+				

Double-crested Cormorant	N	Alcorn	?/ ?/73	L III	6
Double-crested Cormorant	N	Washington Dep. Game	?/ ?/74	L III	276
Double-crested Cormorant	N	Washington Dep. Game	?/ ?/75	L III	277
Double-crested Cormorant	N	Washington Dep. Game	?/ ?/76	L III	203
Double-crested Cormorant	N	Washington Dep. Game	?/ ?/77	L III	203
Double-crested Cormorant	N	Washington Dep. Game	?/ ?/78	L III	203
Double-crested Cormorant	200	Washington Dep. Game	06/02/79	L I	203
Double-crested Cormorant	200	Smith	06/22/79	L I	254
Double-crested Cormorant	580	Washington Dep. Game	05/23/80	L I	203
Double-crested Cormorant	590	Smith	?/ ?/80	L I	254
Double-crested Cormorant	752	Washington Dep. Game	06/27/81	L I	203
Double-crested Cormorant	4	Alcorn	06/05/82	E -	8
Double-crested Cormorant	200	Alcorn	06/05/82	L III	5
Double-crested Cormorant	916	Washington Dep. Game	06/15/82	L I	203
Glaucous-winged Gull	X	Alcorn 1958	?/ ?/54	L III	3
Glaucous-winged Gull	X	Alcorn 1958	?/ ?/55	L III	3
Glaucous-winged Gull	X	Alcorn 1958	?/ ?/56	L III	3
Glaucous-winged Gull	X	Alcorn 1958	?/ ?/57	L III	3
Glaucous-winged Gull	X	Alcorn 1958	06/ ?/58	L III	3
Glaucous-winged Gull	X	Alcorn 1958	07/20/58	L III	3
Glaucous-winged Gull	2	Alcorn	07/20/58	S -	8
Glaucous-winged Gull	X	Washington Dep. Game	?/ ?/72	L III	203
Glaucous-winged Gull	2	Alcorn	05/14/74	E -	8



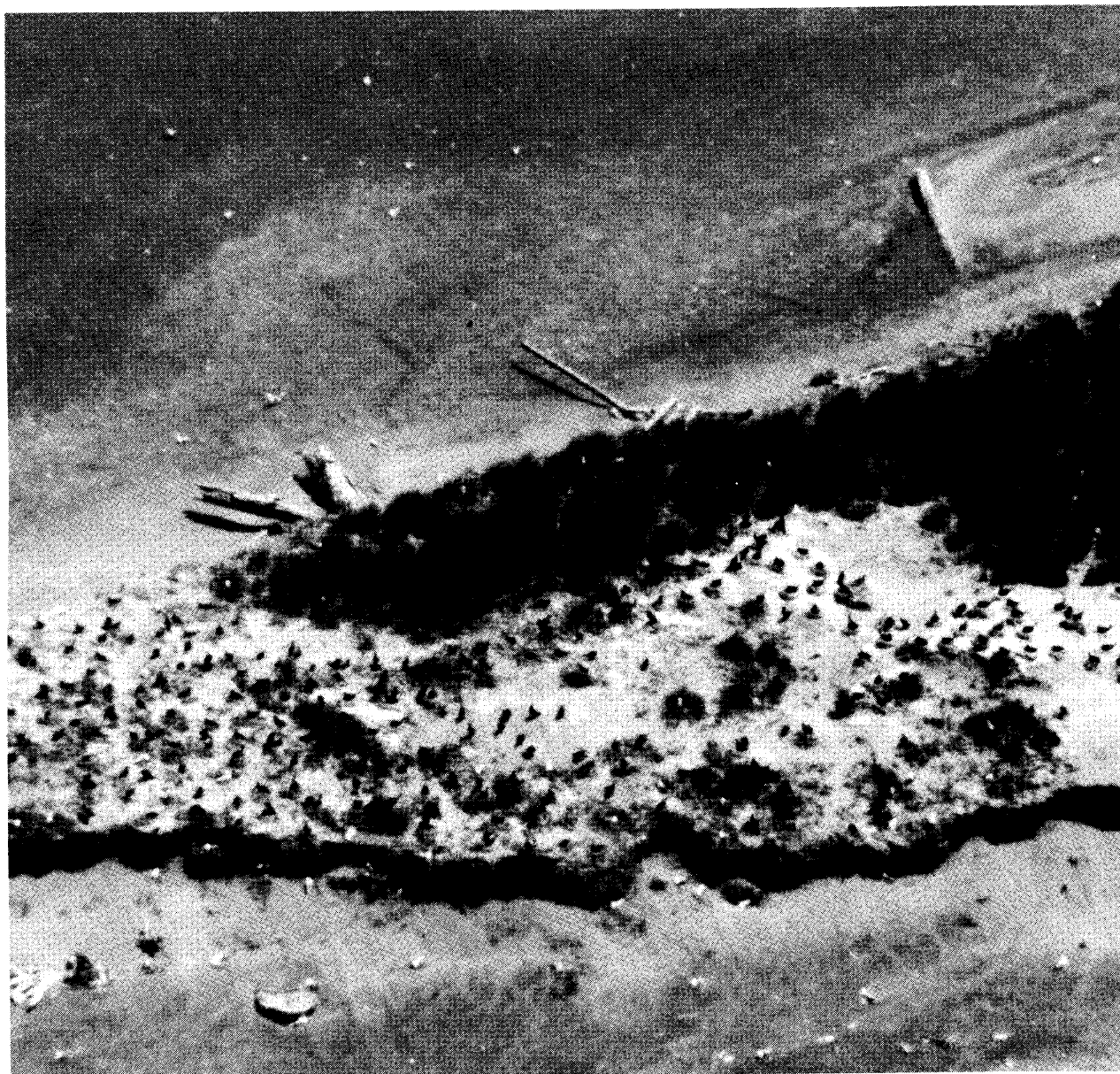
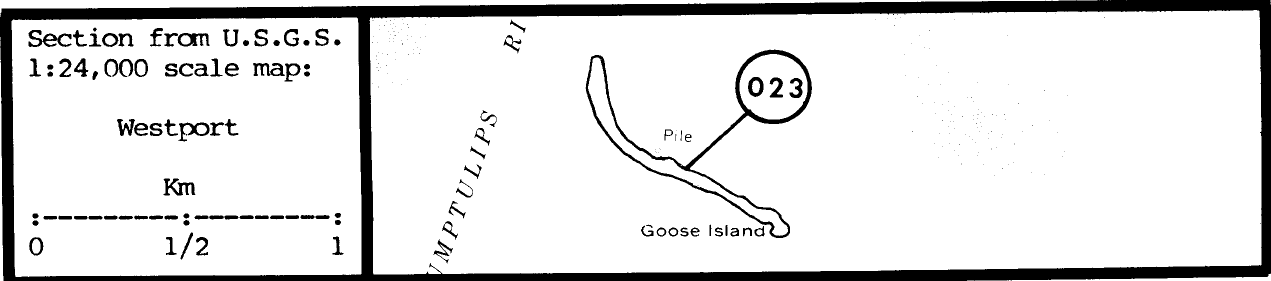
Glaucous-winged Gull	7000	Penland 1976	06/08/75	L III	211
Glaucous-winged Gull	2000	Hoffman	07/14/75	L III	138
Glaucous-winged Gull	1300	Smith & Mudd 1976	07/14/75	L III	252
Glaucous-winged Gull	7000	Washington Dep. Game	?/ ?/77	L III	203
Glaucous-winged Gull	4000	Harrington-Tweit	05/20/77	A III	124
Glaucous-winged Gull	X	Harrington-Tweit	05/26/77	L III	124
Glaucous-winged Gull	5000-6600	Peters et al. 1978	05/26/77	L III	216
Glaucous-winged Gull	X	Harrington-Tweit	06/14/77	L III	124
Glaucous-winged Gull	X	Harrington-Tweit	07/14/77	L III	124
Glaucous-winged Gull	N	Harrington-Tweit	08/17/77	L III	124
Glaucous-winged Gull	60-80	Washington Dep. Game	?/ ?/78	L III	203
Glaucous-winged Gull	X	Smith	06/22/79	L III	254
Glaucous-winged Gull	X	Smith	05/23/80	L III	254
Caspian Tern	18	Alcorn 1958	?/ ?/57	L I	3
Caspian Tern	140	Alcorn 1958	?/ ?/58	L I	3
Caspian Tern	100+	Alcorn 1958	Jun/ ?/58	L III	3
Caspian Tern	150	Alcorn 1958	07/20/58	L III	3
Caspian Tern	2	Anonymous	07/20/58	E -	16
Caspian Tern	4	Anonymous	06/13/59	E -	16
Caspian Tern	8	Chabot & Alcorn	05/19/61	E -	57
Caspian Tern	2000	Washington Dep. Game	?/ ?/71	L III	203
Caspian Tern	2000	Reick	05/04/72	L III	233
Caspian Tern	2	Anonymous	06/03/72	S -	16
Caspian Tern	2000	Alcorn	?/ ?/73	L III	7
Caspian Tern	1600	Alcorn	?/ ?/73	L III	6
Caspian Tern	2	Anonymous	06/11/73	S -	16
Caspian Tern	600	Penland 1976	?/ ?/74	L III	211
Caspian Tern	300	Washington Dep. Game	?/ ?/74	L III	276
Caspian Tern	4	Alcorn	05/14/74	E -	8
Caspian Tern	2	Anonymous	06/08/74	S -	16
Caspian Tern	180	Washington Dep. Game	?/ ?/75	L III	277
Caspian Tern	338	Penland 1976	06/08/75	L III	213
Caspian Tern	N	Penland 1976	?/ ?/76	L III	211
Caspian Tern	N	Peters et al. 1978	?/ ?/76	L III	216
Caspian Tern	N	Washington Dep. Game	?/ ?/76	L III	203
Caspian Tern	N	Peters et al. 1978	?/ ?/77	L III	216
Caspian Tern	N	Washington Dep. Game	?/ ?/77	L III	203
Caspian Tern	N	Harrington-Tweit	05/20/77	A III	124
Caspian Tern	N	Harrington-Tweit	05/26/77	L III	124
Caspian Tern	N	Harrington-Tweit	06/14/77	L III	124
Caspian Tern	N	Harrington-Tweit	07/14/77	L III	124
Caspian Tern	N	Harrington-Tweit	08/17/77	L III	124
Caspian Tern	N	Washington Dep. Game	?/ ?/78	L III	203
Caspian Tern	N	Washington Dep. Game	?/ ?/79	L III	203

AREA 174, Copalis Beach, South (cont'd.)

Caspian Tern	N Washington Dep. Game	?/ ?/80	L III 203
Caspian Tern	N Washington Dep. Game	?/ ?/81	L III 203
Caspian Tern	N Washington Dep. Game	06/15/82	L III 203



Goose Island (174023) 1977 S.G. Herman



Goose Island (174023) 15 June 1982 E. Cummins Double-crested Cormorants

AREA 174, Copalis Beach, South (cont'd.)

024

Sand Island 46°57'45"N, 124°03'25"W

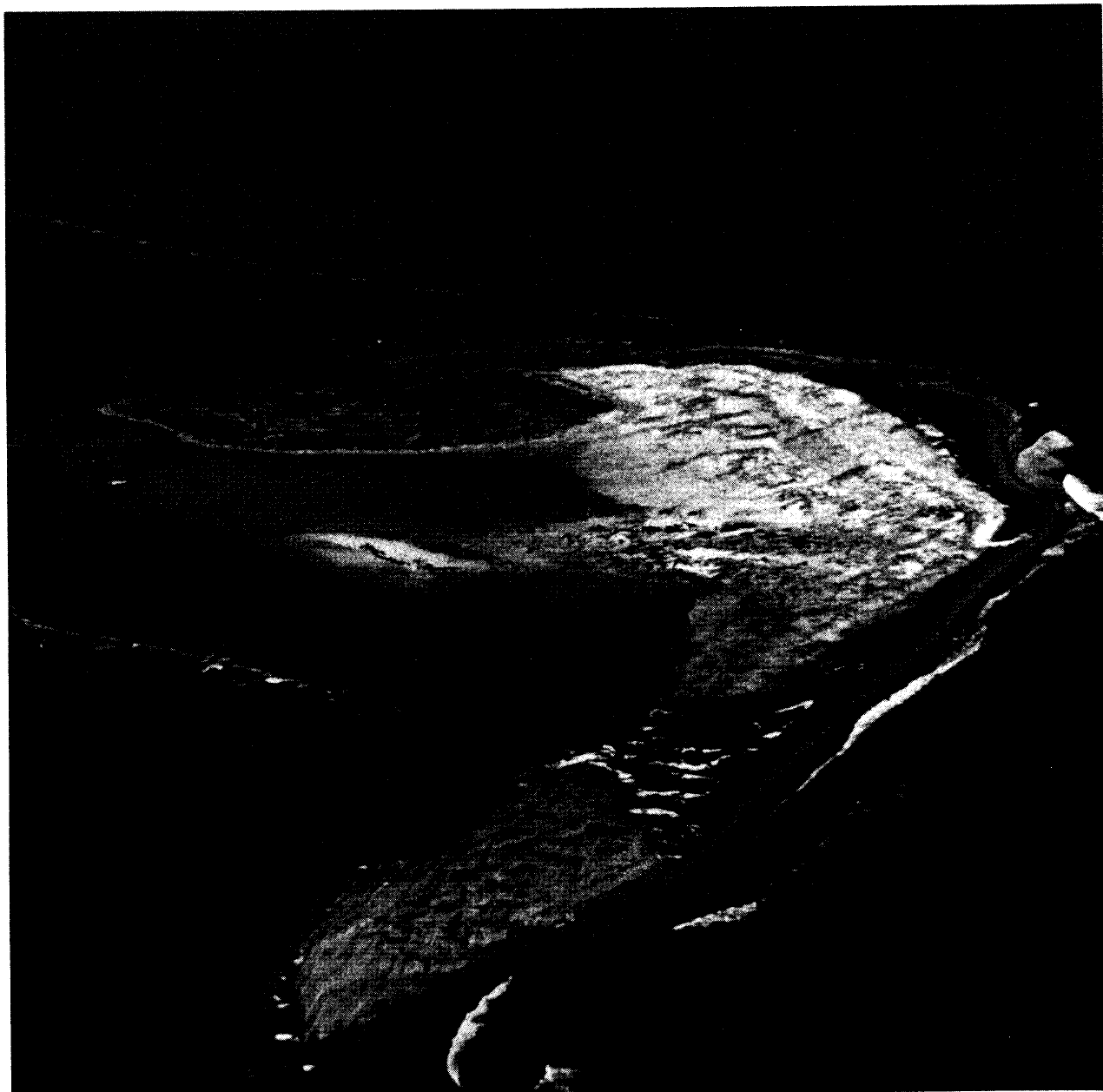
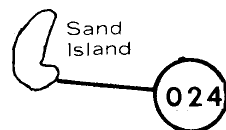
Caspian Tern	5216	Washington Dep. Game	06/05/82	L II 203
Ring-billed Gull	10	Smith	?/ ?/77	L I 253
Ring-billed Gull	24	Smith	?/ ?/78	L I 253
Ring-billed Gull	24	Smith	05/19/78	L I 254
Ring-billed Gull	30B	Washington Dep. Game	06/14/79	L I 203
Ring-billed Gull	34	Smith	05/23/80	L I 254
Ring-billed Gull	96	Washington Dep. Game	05/31/80	L I 203
Ring-billed Gull	106	Washington Dep. Game	05/30/81	L I 203
Glaucous-winged Gull	2000	Penland 1976	07/ ?/76	L III 211
Glaucous-winged Gull	2000	Washington Dep. Game	?/ ?/77	L III 203
Glaucous-winged Gull	750+	Harrington-Tweit	05/20/77	A III 124
Glaucous-winged Gull	X	Harrington-Tweit	05/22/77	L III 124
Glaucous-winged Gull	X	Harrington-Tweit	06/14/77	L III 124
Glaucous-winged Gull	X	Harrington-Tweit	07/14/77	L III 124
Glaucous-winged Gull	X	Harrington-Tweit	08/17/77	L III 124
Glaucous-winged Gull	X	Washington Dep. Game	06/14/79	L III 203
Caspian Tern	N	Washington Dep. Game	?/ ?/73	L III 203
Caspian Tern	N	Washington Dep. Game	?/ ?/74	L III 203
Caspian Tern	1400	Washington Dep. Game	?/ ?/76	L II 203
Caspian Tern	1200	Washington Dep. Game	07/ ?/76	L II 203
Caspian Tern	300+	Harrington-Tweit	05/20/77	A III 124
Caspian Tern	X	Harrington-Tweit	05/22/77	L III 124
Caspian Tern	3470	Harrington-Tweit	05/26/77	L II 124
Caspian Tern	X	Harrington-Tweit	06/14/77	L III 124
Caspian Tern	X	Harrington-Tweit	07/14/77	L III 124
Caspian Tern	X	Harrington-Tweit	07/17/77	L III 124
Caspian Tern	3560	Smith	05/19/78	L II 254
Caspian Tern	3780	Rodrick	06/02/79	L II 203
Caspian Tern	4000	Smith	05/23/80	L II 254
Caspian Tern	4380	Washington Dep. Game	05/31/80	L II 203
Caspian Tern	X	Washington Dep. Game	05/19/81	L III 203
Caspian Tern	4310	Washington Dep. Game	05/30/81	L II 203

Section from U.S.G.S.
1:24,000 scale map:

Westport

Km

0 1/2 1



Sand Island (174024) 1977 S.G. Herman

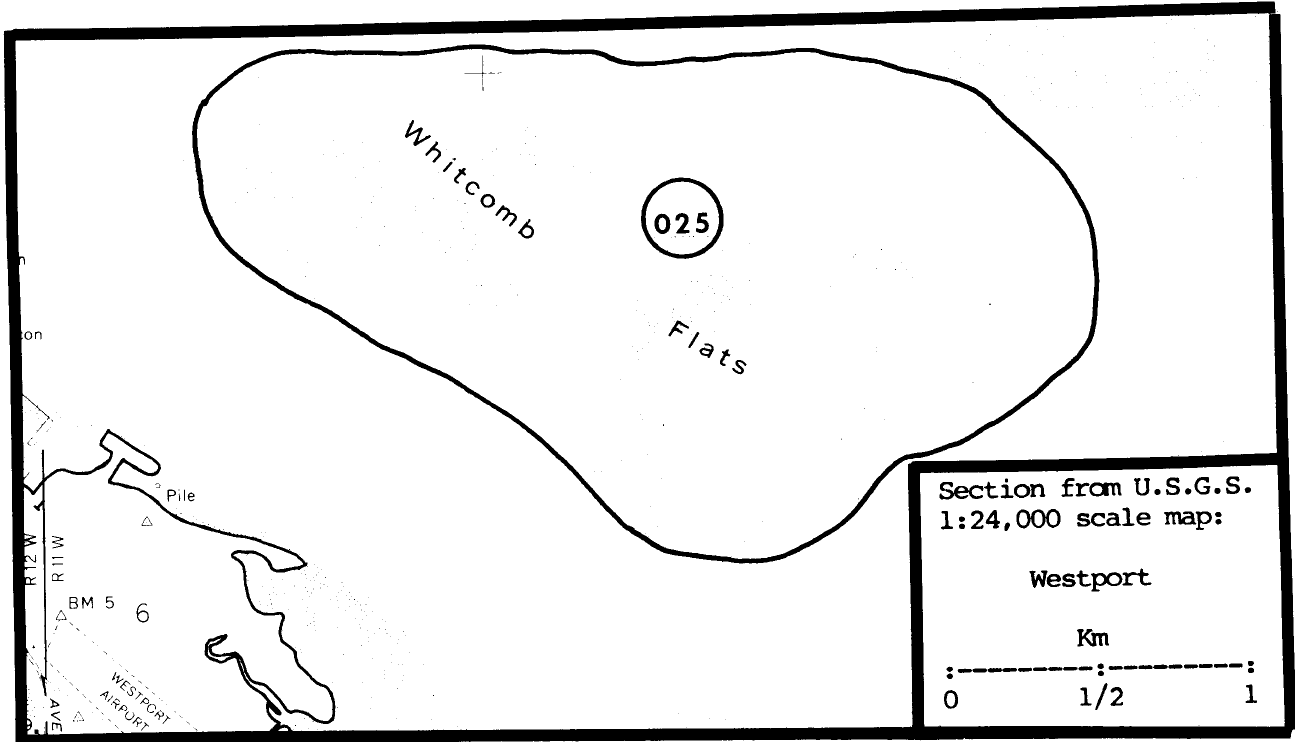
AREA 174, Copalis Beach, South (cont'd.)

025

Whitcomb Island 46°54'40"N, 124°04'40"W

Glaucous-winged Gull	28	Washington Dep. Game	05/19/81	L	I	203
Caspian Tern	N	Washington Dep. Game	05/19/81	L	I	203
Total	28					

Gull sp.	N	Peters et al. 1978	?/ ?/74	?	?	216
Ring-billed Gull	4	Penland 1976	06/02/76	L	I	211
Ring-billed Gull	6	Washington Dep. Game	?/ ?/77	L	I	203
Ring-billed Gull	6	Harrington-Tweit	05/26/77	L	I	124
Ring-billed Gull	14	Alcorn	06/07/77	L	I	4
Ring-billed Gull	2	Alcorn	06/07/77	E	-	8
Ring-billed Gull	18	Harrington-Tweit	07/14/77	L	I	124
Glaucous-winged Gull	80	Penland 1976	05/27/75	L	I	211
Glaucous-winged Gull	2	Alcorn	05/30/75	E	-	8
Glaucous-winged Gull	54	Smith & Mudd 1976	06/ ?/75	L	III	252
Glaucous-winged Gull	80	Penland 1976	06/02/76	L	I	211
Glaucous-winged Gull	2	Alcorn	06/03/76	E	-	8
Glaucous-winged Gull	116	Washington Dep. Game	?/ ?/77	L	I	203
Glaucous-winged Gull	30+	Harrington-Tweit	05/20/77	A	III	124
Glaucous-winged Gull	90+	Harrington-Tweit	05/26/77	L	III	124
Glaucous-winged Gull	6	Alcorn	06/07/77	S	-	8
Glaucous-winged Gull	X	Harrington-Tweit	08/17/77	L	III	124
Glaucous-winged Gull	X	Washington Dep. Game	?/ ?/78	L	III	203
Glaucous-winged Gull	360	Washington Dep. Game	05/ ?/79	L	III	203
Glaucous-winged Gull	400+	Smith	05/30/80	L	III	254
Caspian Tern	?	Washington Dep. Game	?/ ?/73	L	III	203
Caspian Tern	2000	Washington Dep. Game	?/ ?/74	L	III	203
Caspian Tern	2000-3000	Smith & Mudd 1976	08/ ?/74	L	III	252
Caspian Tern	6	Penland	05/12/75	E	-	214
Caspian Tern	1500	Penland	05/12/75	L	III	213
Caspian Tern	2	Alcorn	05/16/75	E	-	8
Caspian Tern	2150	Alcorn	05/16/75	L	III	4
Caspian Tern	2150	Smith & Mudd 1976	05/ ?/75	L	I	252
Caspian Tern	2150	Penland 1976	05/27/75	L	I	211
Caspian Tern	1	Anonymous	05/30/75	S	-	16
Caspian Tern	2200	Reick	08/25/75	L	III	233
Caspian Tern	6	Penland	05/14/76	E	-	214
Caspian Tern	2500	Penland	05/14/76	L	III	213
Caspian Tern	1	Anonymous	05/24/76	S	-	16
Caspian Tern	2480	Penland 1976	06/02/76	L	I	211
Caspian Tern	4	Anonymous	06/02/76	S	-	16
Caspian Tern	1	Anonymous	08/15/76	S	-	16
Caspian Tern	4	Alcorn	05/07/77	E	-	8
Caspian Tern	700	Alcorn	05/07/77	L	III	4
Caspian Tern	150	Harrington-Tweit	05/20/77	A	III	124
Caspian Tern	610	Harrington-Tweit	05/26/77	L	I	124
Caspian Tern	1	Anonymous	06/07/77	S	-	16
Caspian Tern	X	Alcorn	06/07/77	L	III	5
Caspian Tern	80	Harrington-Tweit	07/14/77	L	I	124
Caspian Tern	X	Harrington-Tweit	08/17/77	L	III	124



Caspian Tern	154	Washington Dep. Game	?/ ?/78	L I 203
Caspian Tern	2	Alcorn	05/06/78	E - 8
Caspian Tern	14-20	Washington Dep. Game	05/ ?/79	L II 203
Caspian Tern	14	Washington Dep. Game	05/23/80	L I 203
Caspian Tern	?	Washington Dep. Game	?/ ?/82	L III 203

AREA 174, Copalis Beach, South (cont'd.)

(103)

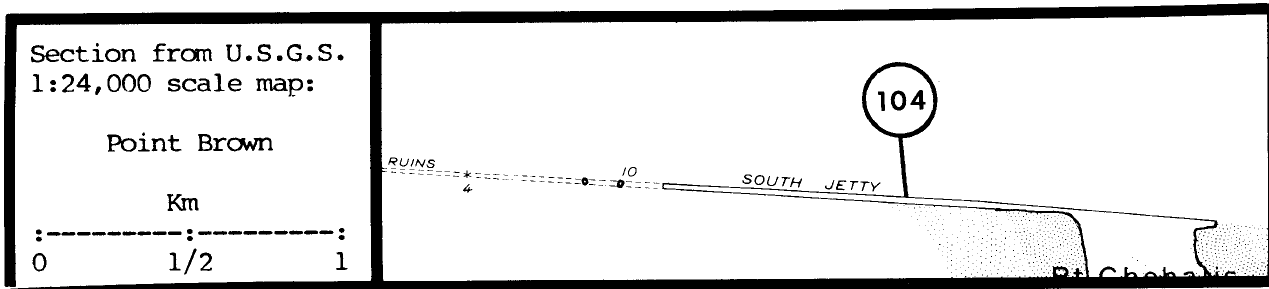
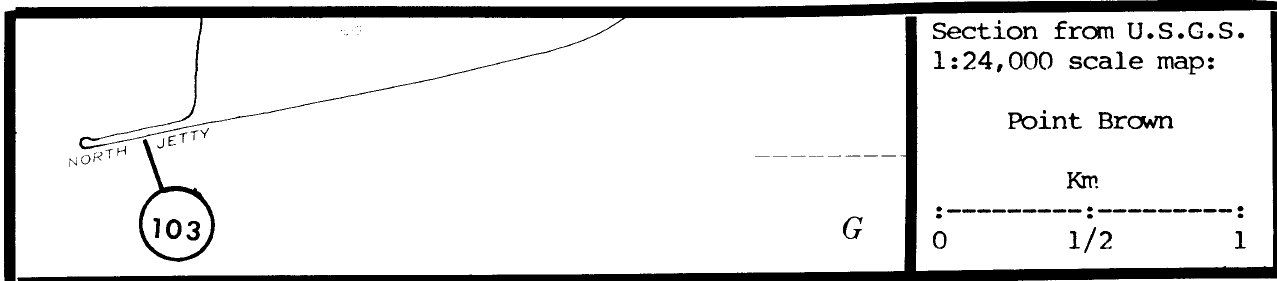
Point Brown, jetty 46°55'38"N, 124°10'37"W

Pigeon Guillemot	23	Wahl	08/14/82	B III 269
Glaucous-winged Gull	18	Morris	?/ ?/73	L III 200
Pigeon Guillemot	20	Harrington-Tweit	04/22/77	B III 124
Pigeon Guillemot	20	Paulson	?/ ?/79	L III 207
Pigeon Guillemot	11	Paulson	?/ ?/80	L III 207
Pigeon Guillemot	8	Paulson	?/ ?/81	L III 207
Pigeon Guillemot	13	Paulson	?/ ?/82	L III 207

(104)

Point Chehalis, jetty 46°54'21"N, 124°08'37"W

Pigeon Guillemot	4	Speich	07/27/82	L III 255
Pigeon Guillemot	2	Hudson	07/03/48	? III 148
Pigeon Guillemot	25	Harrington-Tweit	07/04/78	B III 124
Pigeon Guillemot	12	Wahl	05/12/79	B III 269
Pigeon Guillemot	7	Wahl	05/10/80	B III 269
Pigeon Guillemot	5	Smith	05/23/80	L III 254



"Gunpowder Island" (174106) 13 June 1982 S.J. Jeffries Caspian Terns

AREA 174, Copalis Beach, South (cont'd.)

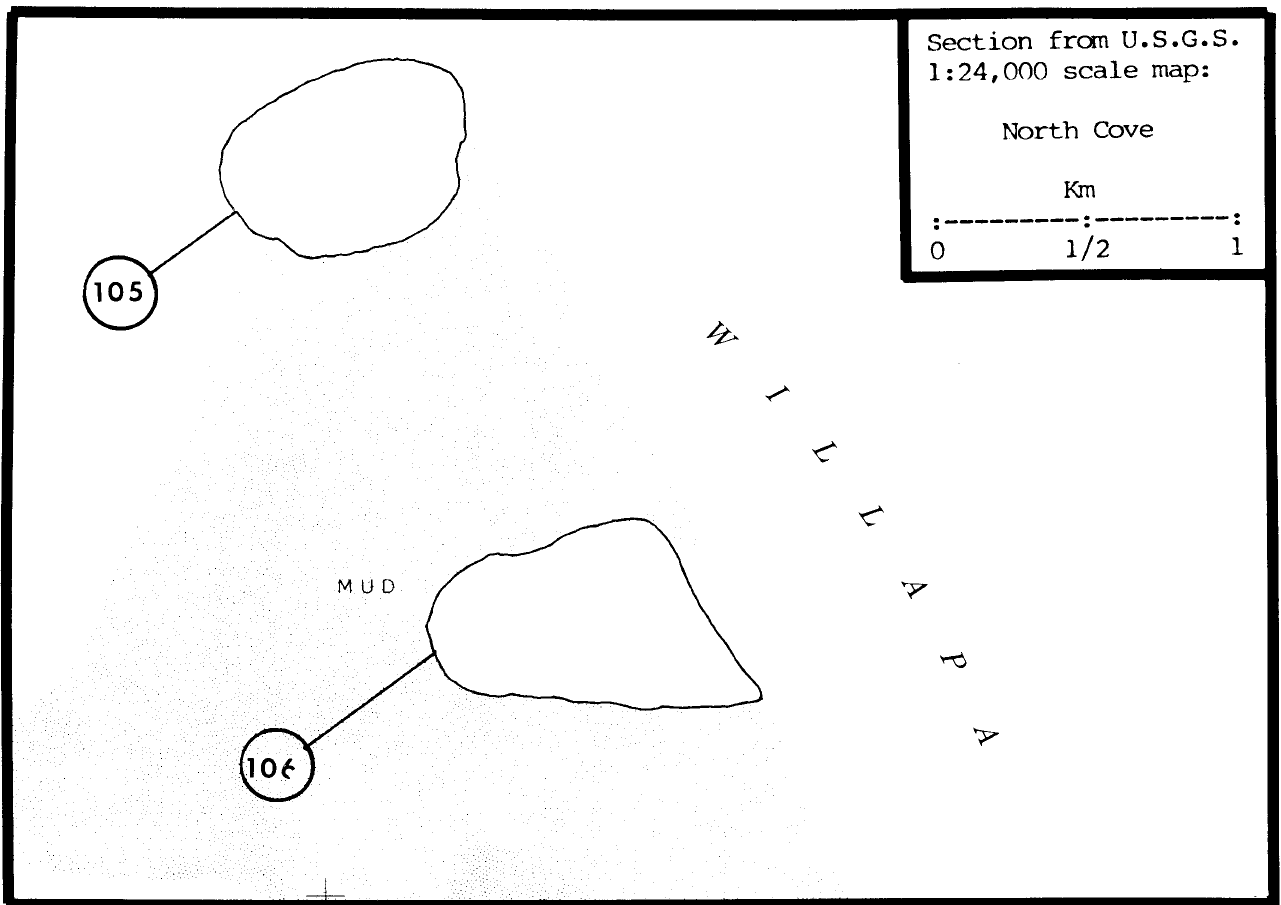
(105) "Whaleback Island" 46°41'25"N, 124°02'30"W

Glaucous-winged Gull	240	Speich; Harrington-Tweit	06/07/82	L I 255;124
Caspian Tern	X	Hosea	06/19/80	? III 144

(106) "Gunpowder Island" 46°40'55"N, 124°02'15"W

Ring-billed Gull	106	Speich; Harrington-Tweit	06/07/82	L I 255;124
Glaucous-winged Gull	6000	Speich; Harrington-Tweit	06/07/82	L III 255;124
Caspian Tern	2700-3000	Speich; Harrington-Tweit	06/07/82	L III 255;124
Total				8806-9106

Glaucous-winged Gull	4	Alcorn	06/04/77	E - 8
Glaucous-winged Gull	2000-3000	Harrington-Tweit	07/21/77	L III 124
Glaucous-winged Gull	1000	Widrig	06/03/80	L III 282
Caspian Tern	100	Harrington-Tweit	07/21/77	L III 124
Caspian Tern	1000-1600	Widrig	?/ ?/80	L III 281
Caspian Tern	1000	Widrig	06/03/80	L III 282
Caspian Tern	2000	Washington Dep. Game	06/19/80	L III 203



AREA 174, Copalis Beach, South (cont'd.)

(107) North Head 46°18'00"N, 124°04'35"W

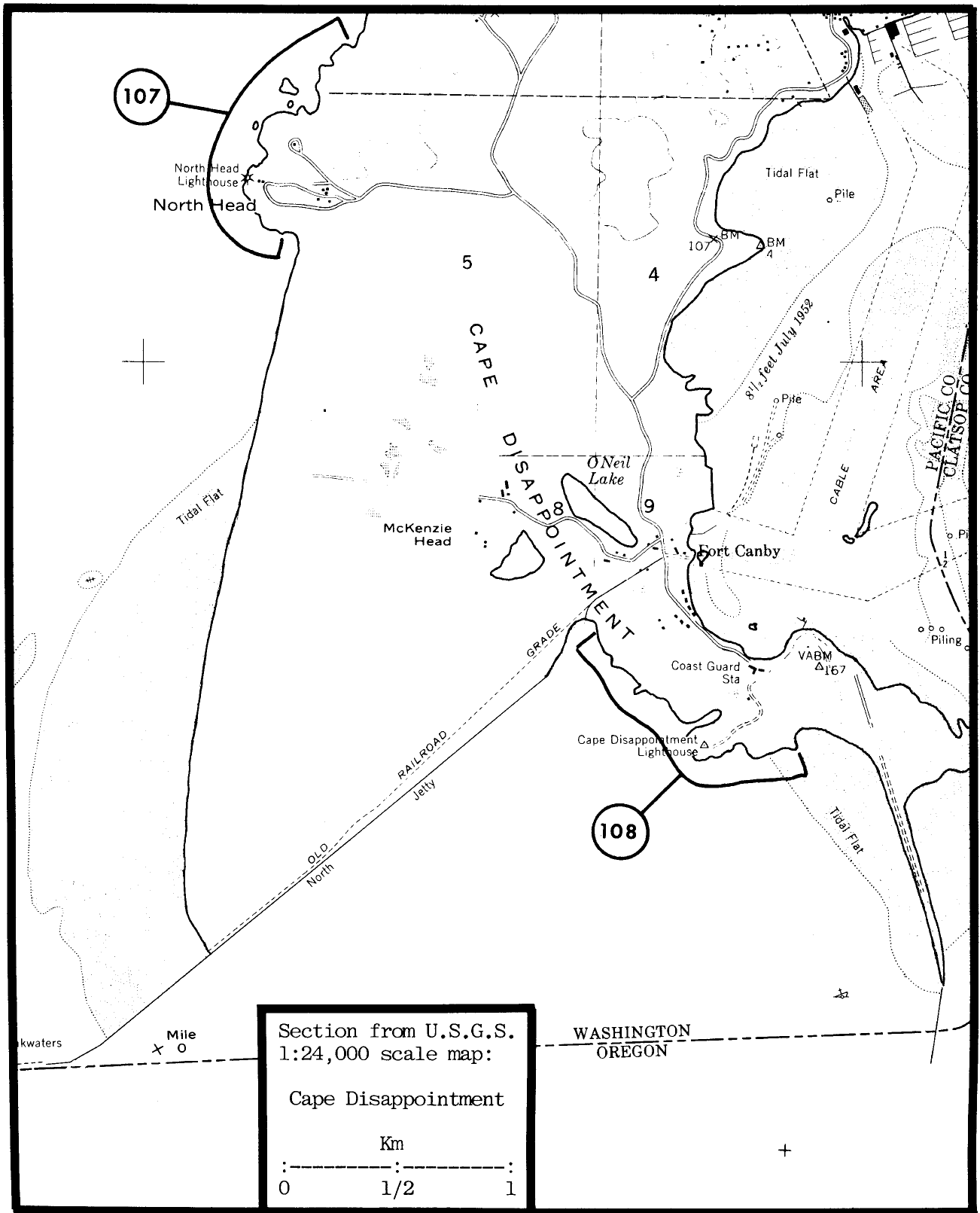
Black Oystercatcher	2	Widrig	?/ ?/82	L III 282
Pigeon Guillemot	30	Widrig	?/ ?/82	L III 282
Total	32			

Black Oystercatcher	2	Widrig	?/ ?/78	L III 282
Black Oystercatcher	2	Widrig	?/ ?/79	L III 282
Black Oystercatcher	2	Widrig	?/ ?/80	L III 282
Black Oystercatcher	2	Widrig	?/ ?/81	L III 282

(108) Cape Disappointment 46°16'30"N, 124°03'00"W

Brandt's Cormorant	96	Speich	06/10/82	L II 255
Pelagic Cormorant	240	Speich	06/10/82	L II 255
Glaucous-winged Gull	12	Speich	06/10/82	L I 255
Pigeon Guillemot	12	Speich	06/10/82	L III 255
Total	360			

Brandt's Cormorant	N	Suckley & Cooper 1860	07/ ?/1853	B III 260
Brandt's Cormorant	150+	Harrington-Tweit	04/12/75	L III 124
Brandt's Cormorant	X	Wahl	08/15-17/79	L III 269
Brandt's Cormorant	10-20	Harrington-Tweit	08/16-17/79	L III 124
Pelagic Cormorant	~200P	Suckley & Cooper 1860	07/ ?/1853	B III 260
Pelagic Cormorant	24	Jewett et al. 1953	05/10-18/18	L III 158
Pelagic Cormorant	8	Harrington-Tweit	04/12/75	L III 124
Pelagic Cormorant	?	Leschner	04/25/79	L III 178
Pelagic Cormorant	X	Wahl	08/15-17/79	L III 269
Pelagic Cormorant	50	Harrington-Tweit	08/16-17/79	L III 124
Black Oystercatcher	3	Widrig 1979	08/08/78	L III 280
Black Oystercatcher	2	Widrig 1979	05/22/79	L III 280



AREA 174, Copalis Beach, South (cont'd.)

109

Sand Island, West 46°16'30"N, 124°01'20"W

No Nesting Observed

0

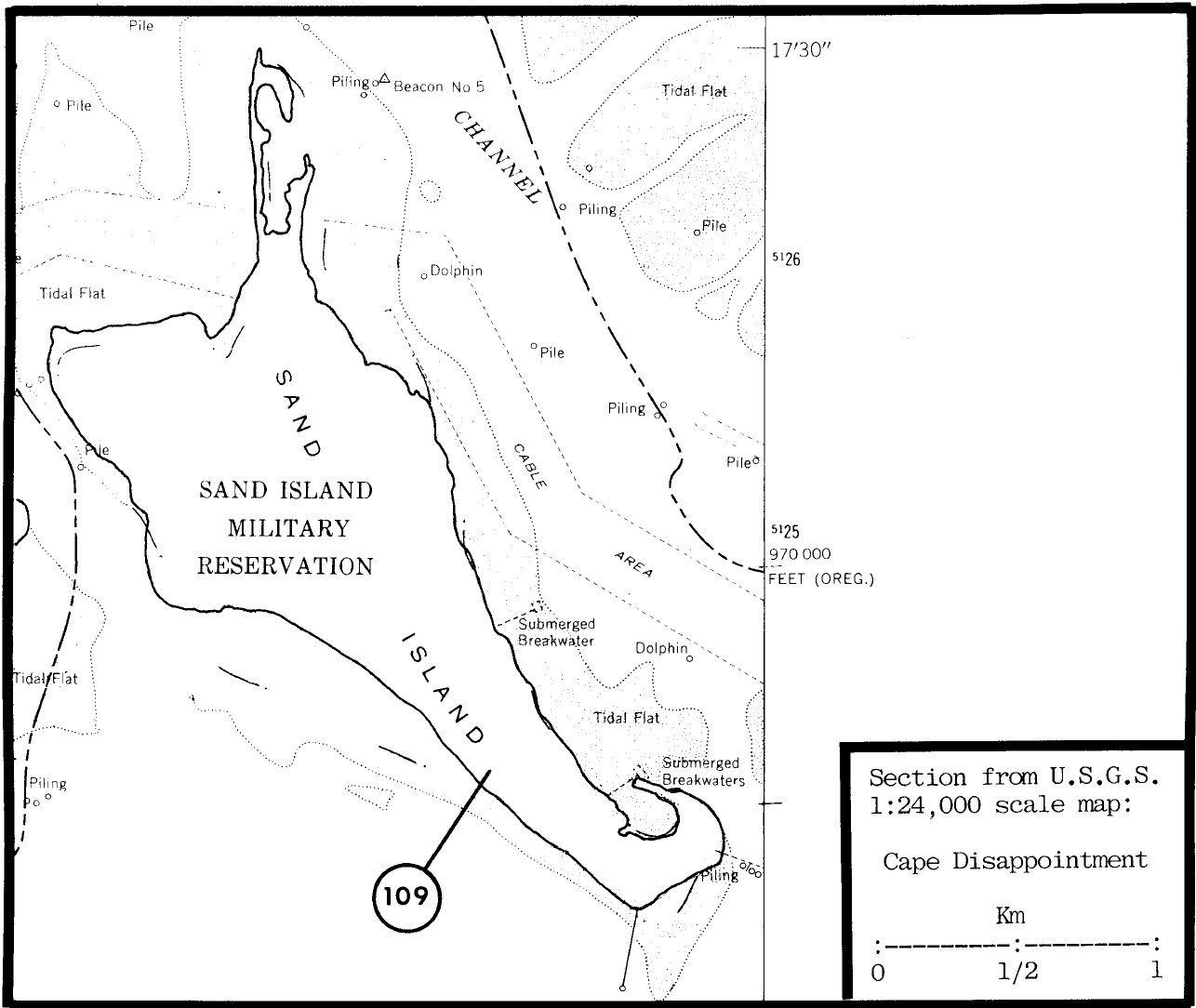
Speich

06/10/82

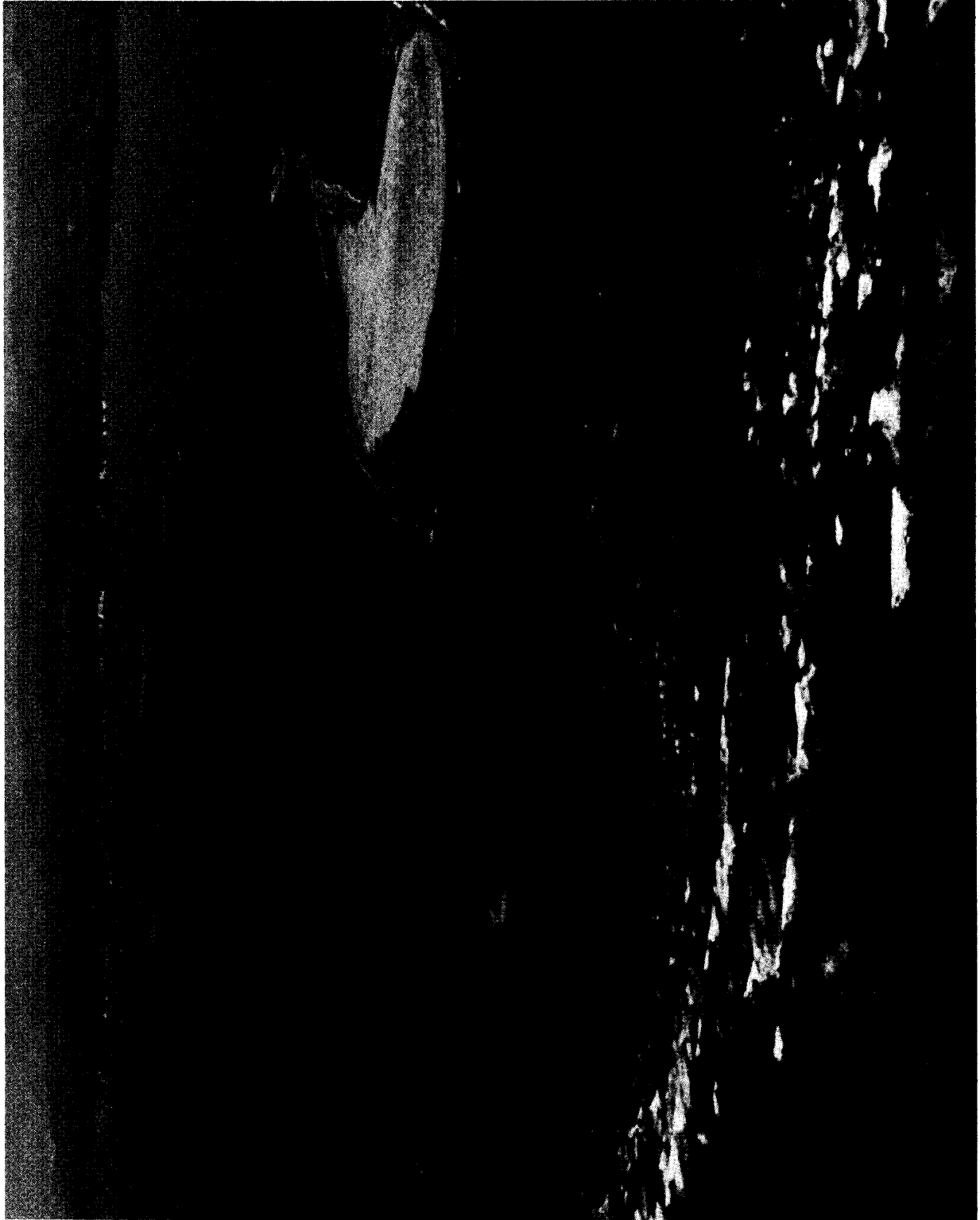
M III 255



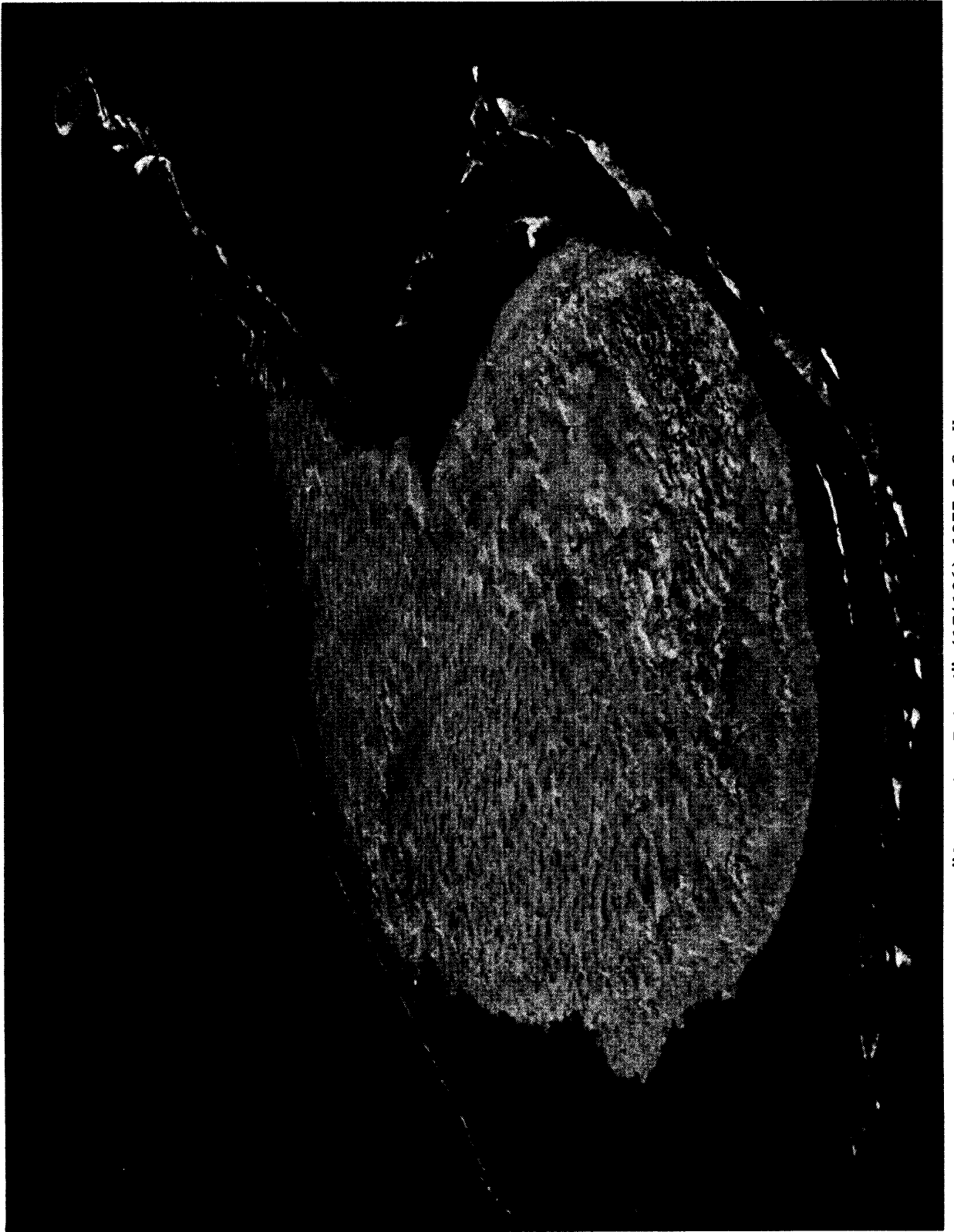
Whitcomb Island (174025) 1977 S.G. Herman



AREA 174, Copalis Beach, South (cont'd.)

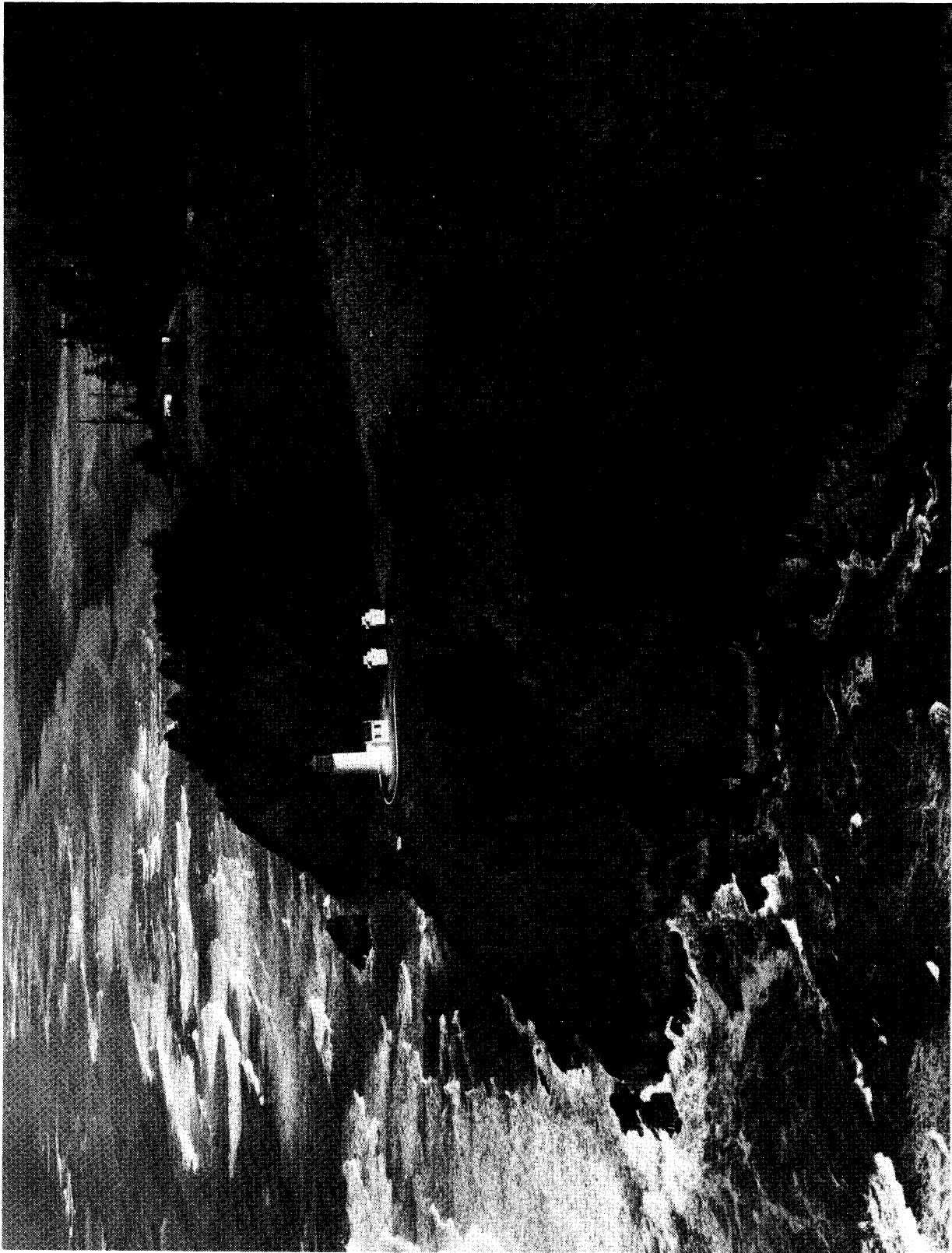


"Whaleback Island" (174105), left; "Gunpowder Island" (174016) 1977 S.G. Herman

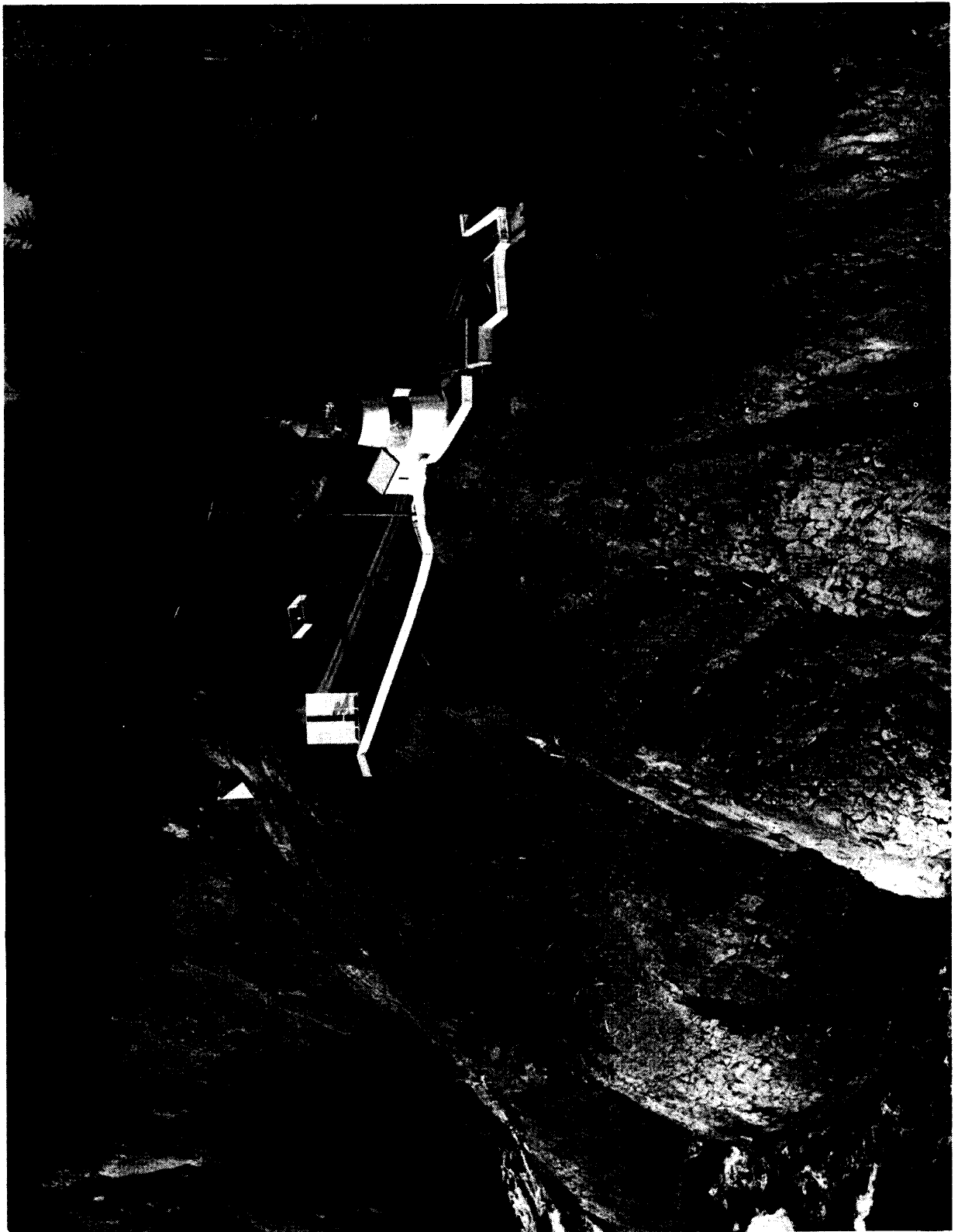


"Gunpowder Island" (174106) 1977 S.G. Herman

AREA 174, Conalis Beach, South (cont'd.)



North Head, Cape Disappointment (174107) U.S. Coast Guard



Cape Disappointment (174108) U.S. Coast Guard