

**A CATALOG IDENTIFYING GRAY  
WHALES IN THE PACIFIC COAST  
FEEDING AGGREGATION IN  
WASHINGTON AND BRITISH COLUMBIA,  
1996 - 2003**

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## **EXECUTIVE SUMMARY**

The eastern North Pacific gray whale (*Eschrichtius robustus*) migrates from wintering grounds along the west coast of Baja California, Mexico to feeding grounds in the Bering, Chukchi, and Beaufort Seas. A small portion of this stock remains scattered along the migration route on the west coast of North America. In 1996, the National Marine Mammal Laboratory (NMML), National Marine Fisheries Service began a study of gray whale feeding aggregations in Washington waters and off Vancouver Island, British Columbia to better understand their occurrence, distribution, and abundance. The effort and sighting results varied from year to year. The number of gray whales sighted varied from 0.045 to 0.124 whales per nautical mile and 0.57 to 1.30 whales per hour of effort.

Individual gray whales can be identified from their natural body markings. This catalog contains the photographs of 190 individual gray whales sighted from 1996 to 2003 in Washington waters and off Vancouver Island, B.C.

## Introduction

The eastern North Pacific gray whale (*Eschrichtius robustus*) migrates from wintering grounds in lagoons on the west coast of Baja California to feeding grounds in the northern and western Bering Sea, Chukchi Sea, and the western Beaufort Sea (Wolman, 1985). These whales leave the lagoons of Baja California in February and arrive in the Bering and Chukchi Seas in June where they remain to feed until October (Rice and Wolman, 1971).

Although the majority of the gray whales are feeding in the northern grounds, a small portion of the stock remains scattered along the migration route on the west coast of North America. Summer sightings of gray whales have been reported from Mexican waters (Patten and Samaras, 1977), northern California (Mallonee, 1991), off the Oregon coast (Sumich, 1984), on the west side of Vancouver Island (Darling, 1984), southeast Alaska (Calambokidis et al., 2000), and off Kodiak Island, Alaska (Moore et al., 2007).

The northbound migration of gray whales through Washington and British Columbian waters occurs from March to May with a peak from mid-March to mid-April (Pike, 1962). Gray whales have been sighted in Washington waters throughout the year and well outside the migratory period (Flaherty, 1983; Calambokidis et al., 1994). Photographic identification of these whales has shown that some whales spend extended periods feeding off the coasts of Washington and Vancouver Island and that some have returned to these areas numerous times over the past few years (Darling, 1984; Calambokidis et al., 1994; Calambokidis and Quan, 1997; Calambokidis and Schlender, 1998).

The population of the eastern North Pacific gray whales has been estimated at 18,000 animals (Rugh et al., 2005). The International Whaling Commission considers this to be one stock. In 1996, the National Marine Mammal Laboratory (NMML) of the National Marine Fisheries Service initiated a study of gray whale feeding aggregations in Washington waters to better understand their occurrence, distribution, and abundance.

## Methods

Gray whale surveys were conducted by NMML in three areas: Strait of Juan de Fuca, northern Washington coast, and southern Vancouver Island. The Strait of Juan de Fuca study area extended from Tatoosh Island at the northwest tip of Washington State to Sekiu (Figure 1). On the northern Washington coast, the study area extended from Tatoosh Island south to Carroll Island. Off southern Vancouver Island, the study area extended from Port San Juan on the Canadian side of the Strait of Juan de Fuca north to Barkley Sound. In 1999, NMML conducted a survey along the west and north coast of Vancouver Island from Port San Juan to Cape Scott, and eastward to Port Hardy. Surveys extended north to Cape Caution. From 2000 to 2002, surveys were extended on Vancouver Island up to Nootka. No survey of Vancouver Island was carried out in 2003.

Surveys were conducted using one of two NOAA vessels: a 24ft Almar (Aluminum Marine Company\*) powered by a 200 HP outboard and a 22ft Boston Whaler\* powered by a 225 HP outboard. Both vessels were equipped with radio, radar, GPS and depth sounder. A differential GPS and portable computer was set up inside the cabin of the Almar to record vessel position every 60 seconds. Position was recorded manually on the Boston Whaler.

Gray whale surveys were conducted at speeds between 10 and 15 kt approximately 1/4 to 1/2 nm from the shoreline. In most cases, two people were on board searching for whale blows. Once whales were sighted and counted, the survey would be interrupted while the whales were approached to be photographed. After an adequate number of photographs were taken, the survey would be resumed. The time taken to photograph the whales was not included in the survey time. Whenever possible, the depth of the water in which whales were present as well as whale behavior was noted. Photographs were taken from the Almar using a Nikon\* 8008 single-lens reflex camera equipped with a 300mm lens. The camera used aboard the Whaler was a Canon\* EOS equipped with a 70-210mm zoom lens. Fuji Neopan\* 1600 black and white print film was used in both cameras. The film was developed commercially, but the best photographs were cropped and printed at the National Marine Mammal Laboratory.

Gray whales were individually identified by the Cascadia Research Collective based on photographs of the natural markings on the right and left

\* Use of trade name does not imply endorsement by NMFS

sides of the whale, especially in the vicinity of the dorsal hump. Custom prints were made of the best photographs of individuals in each sighting. All photographs were compared by at least two matchers.

An independent aid to matching was used as a final check that was based on the relative spacing between the knuckles along the dorsal ridge behind the dorsal hump. All photographs for each year were compared internally and then compared to a catalog of gray whales identified in Washington State and British Columbia in past years maintained by Cascadia Research (Calambokidis et al. 1994).

## Results

A summary of the surveys conducted, effort expended, and whales sighted is given in Table 1. The effort and sighting results varied from year to year. The number of gray whales sighted per nautical mile varied from 0.045 to 0.124. The number of gray whales sighted per hour varied from 0.57 to 1.30.

The number of gray whales sighted, the number photographed, and the number of individual whales identified each year is given in Table 2. The number of whales identified is less than the number photographed because of repeat sightings and photographing of the same animal. A listing of each sighting of identified gray whales is given in Appendix 1.

The following catalog contains photographs of 190 gray whales collected from 1996 to 2003 and shows the left and right sides of the whale and the fluke if those photographs are available. The sighting date and location is also given. The latitude and longitude of the sighting of each identified gray whale is given in Appendix 1.

## CITATIONS

- Calambokidis, J., Evenson, J., Steiger, G. and Jeffries, S. 1994. Gray whales of Washington State: Natural history and photographic catalog. Cascadia Research Collective, Olympia, WA. 60pp.
- Calambokidis, J. and Quan, J. 1997. Gray whales in Washington State: Report on research in 1996. Contract report No. 43ABNF-6-01487 to the National Marine Mammal Laboratory, Seattle, WA. 28pp.
- Calambokidis, J. and Schlender, L. 1998. Gray whale photographic identification in 1997. Contract report No. 40ABNF-7-01750 to the National Marine Mammal Laboratory, Seattle, WA. 21pp.
- Calambokidis, J., Darling, J., Deecke, V., Gearin, P., Goshō, M., Megill, W., Tombach, C., Goley, D., Toropova, C., and Gisborne, B. 2000. Range and movements of seasonal resident gray whales from California to southeast Alaska. Cascadia Research Collective, Olympia, WA. 29pp.
- Darling, J. 1984. Gray whales (*Eschrichtius robustus*) off Vancouver Island, British Columbia. pp. 267-287. In: Jones, M., Swartz, S. and Leatherwood, S. (eds.), *The Gray Whale, Eschrichtius robustus*. Academic Press, Inc., Orlando, Florida. 600 pp.
- Flaherty, C.V. 1983. Observations of gray whales in Washington waters. *Cetus*. 5(1):16-18.
- Mallonee, J.S. 1991. Behavior of gray whales (*Eschrichtius robustus*) summering off the northern California coast, from Patrick's Point to Crescent City. *Can. J. Zool.* 69(3):681-690.
- Moore, S.E., Wynne, K.M., Kinney, J.C., and Grebmeier, J.M. 2007. Gray whale occurrence and forage southeast of Kodiak Island, Alaska. *Mar. Mamm. Sci.* 23(2): 419-428.
- Patten, D.R. and Samaras, W.F. 1977. Unseasonable occurrences of gray whales. *Bull. So. Cal. Acad. Sci.* 76(3):205-208.

- Pike, G.C. 1962. Migration and feeding of the gray whale (*Eschrichtius robustus*). *J. Fish. Res. Bd. Canada* 19(5):815-838.
- Rice, D.W. and Wolman, A.W. 1971. The life history and ecology of the gray whale (*Eschrichtius robustus*). American Society of Mammalogists, Special Publication No. 3, Stillwater, OK.
- Rugh, D.J., Hobbs, R.C., Lerczak, J.A. and Breiwick, J.M. 2005. Estimates of abundance of the eastern North Pacific stock of gray whales (*Eschrichtius robustus*) 1997-2002. *Journal of Cetacean Research and Management*, 7:1-12.
- Sumich, J.L. 1984. Gray whales along the Oregon coast in summer, 1977-1980. *Murrelet*. 65(2):33-40.
- Wolman, A.W. 1985. Gray whale *Eschrichtius robustus* (Lilljeborg, 1861). pp. 67-90. In: Ridgway, S. and Harrison, R. (eds.), *Handbook of Marine Mammals, Vol. 3 The sirenians and baleen whales*. Academic Press, London. 362 pp.

Table 1. Survey effort for gray whales.

Year	No. of Surveys	Survey Distance (nautical miles)	Survey Duration (hours)	Whales sighted	Whales per nautical mile	Whales per hour
1996	65	815.8	91.05	101	0.124	1.11
1997	92	1821.5	194.63	162	0.089	0.83
1998	138	2593.7	228.50	186	0.072	0.81
1999	70	2001.0	149.93	195	0.097	1.30
2000	60	1463.7	128.90	131	0.089	1.02
2001	80	1773.0	136.30	169	0.095	1.24
2002	51	1320.2	102.64	59	0.045	0.57
2003	44	1046.0	86.47	79	0.076	0.91

Table 2. Identification of individual gray whales from photographs.

YEAR	NUMBER SIGHTED	NUMBER PHOTOGRAPHED	NUMBER OF INDIVIDUALS
1996	101	34	18
1997	162	122	28
1998	186	146	54
1999	195	192	78
2000	131	110	78
2001	169	114	68
2002	59	38	23
2003	79	66	25



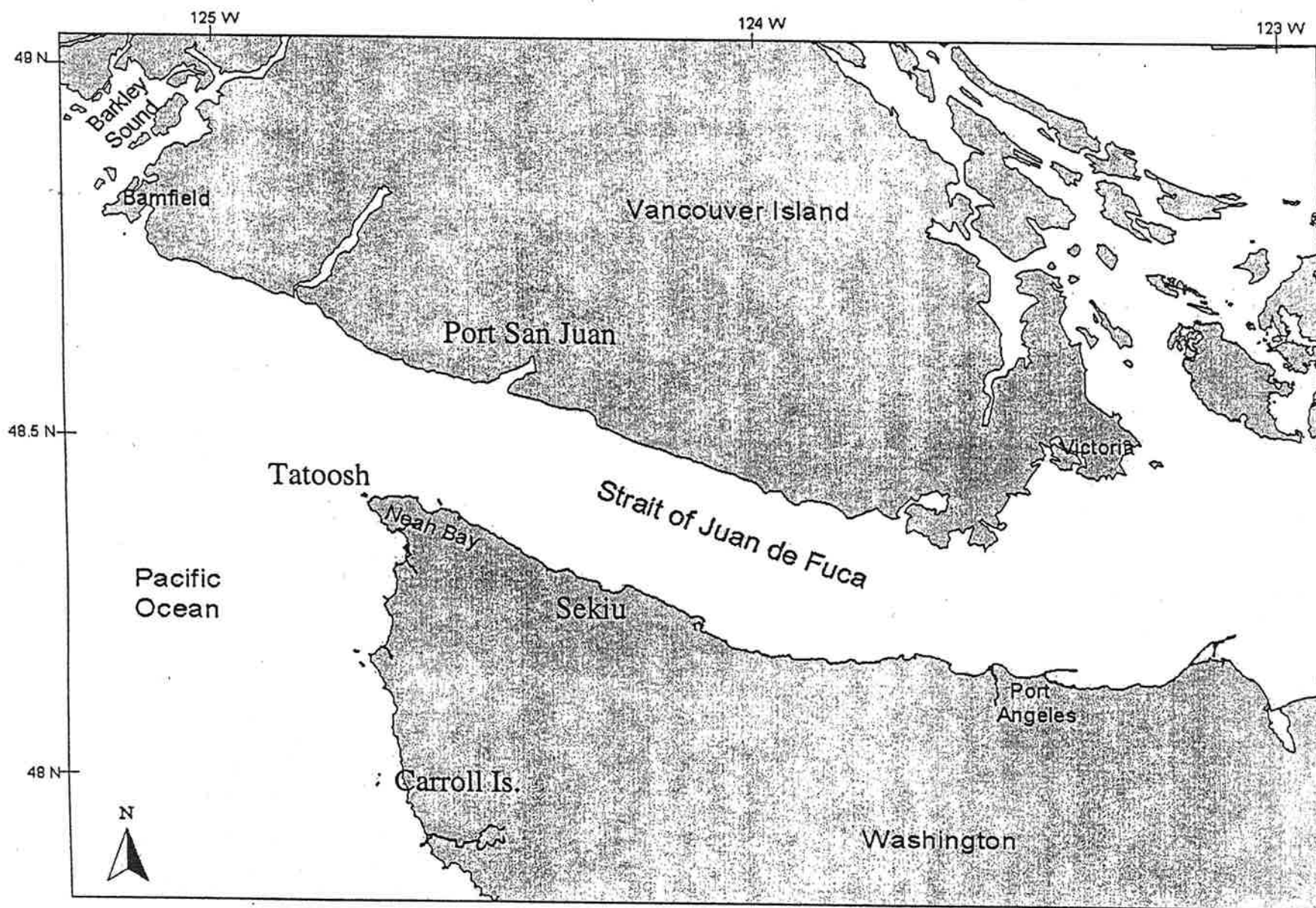


Figure 1. Gray whale survey area.

## Appendix 1. Gray whales identified by NMML from 1996 to 2003.

<b>ID</b>	<b>Date</b>	<b>Mon</b>	<b>Yr</b>	<b>Time</b>	<b>Lat</b>	<b>Long</b>	<b>Region</b>
37	27-Jul-96	7	1996	12 55	48 21.8	124 26.0	SVI
41	27-Jul-96	7	1996	12 55	48 21.8	124 26.0	SVI
68	13-Aug-96	8	1996	12 37	48 17.6	124 41.5	OC
68	23-Aug-96	8	1996	10 05	48 20.2	124 42.0	OC
68	27-Aug-96	8	1996	14 17	48 18.9	124 42.0	OC
68	12-Sep-96	9	1996	13 46	48 18.4	124 42.0	OC
68	26-Sep-96	9	1996		48 21.0	124.43.0	OC
80	16-Aug-96	8	1996	11 25	48 17.6	124 41.5	OC
80	23-Aug-96	8	1996	11 20	48 17.9	124 42.0	OC
80	27-Aug-96	8	1996	14 17	48 18.9	124 42.0	OC
80	27-Aug-96	8	1996	14 56	48 18.9	124 42.0	OC
80	18-Sep-96	9	1996		48 17.7	124 41.5	OC
80	18-Sep-96	9	1996		48 17.6	124 41.5	OC
80	26-Sep-96	9	1996	13 06	48 21.1	124 34.8	SJF
83	23-Jul-96	7	1996	13 08	48 26.2	124 42.8	OC
87	18-Sep-96	9	1996		48 17.7	124 41.5	OC
92	27-Jul-96	7	1996	18 09	48 39.0	124 50.2	SVI
145	26-Sep-96	9	1996		48 17.6	124 41.5	OC
166	24-Jul-96	7	1996	10 46	48 15.9	124 20.0	SJF
166	24-Jul-96	7	1996	11 45	48 15.0	124 17.5	SJF
174	28-Aug-96	8	1996	16 36	48 17.6	124 41.5	OC
175	13-Jun-96	6	1996	11 29	48 21.0	124 31.5	SJF
175	16-Aug-96	8	1996	10 15	48 17.6	124 41.5	OC
175	27-Aug-96	8	1996	16 08	48 17.7	124 41.5	OC
175	28-Aug-96	8	1996	13 55	48 17.6	124 41.5	OC
175	26-Sep-96	9	1996	13 06	48 21.1	124 34.8	SJF
178	13-Jun-96	6	1996	11 29	48 21.0	124 31.5	SJF
185	23-Aug-96	8	1996	10 40	48 18.9	124 42.0	OC
186	27-Jul-96	7	1996	16 32	48 40.5	124 51.2	SVI
187	13-Jun-96	6	1996	11 29	48 21.0	124 31.5	SJF
187	5-Aug-96	8	1996	09 54	48 21.2	124 32.8	SJF
187	27-Aug-96	8	1996	15 17	48 18.9	124 42.0	OC
212	12-Sep-96	9	1996	11 35	48 21.0	124 43.0	OC
212	18-Sep-96	9	1996		48 17.6	124 41.5	OC
15	6-Sep-97	9	1997	14 07	48 18.4	124 25.2	SJF
15	20-Sep-97	9	1997	13 00	48 19.6	124 27.9	SJF
15	28-Sep-97	9	1997	18 14	48 22.8	124 35.4	SJF
15	29-Sep-97	9	1997	09 03	48 22.3	124 34.6	SJF
15	29-Sep-97	9	1997	14 06	48 21.7	124 32.9	SJF
15	29-Sep-97	9	1997	14 38	48 21.9	124 32.8	SJF
15	29-Sep-97	9	1997	15 18	48 21.7	124 33.2	SJF
15	30-Sep-97	9	1997	10 22	48 19.7	124 28.2	SJF
43	2-Sep-97	9	1997	16 55	48 21.8	124 33.5	OC
67	6-Jul-97	7	1997	17 15	48 09.0	124 44.0	OC
67	16-Jul-97	7	1997	14 11	48 21.4	124 32.2	SJF
67	29-Jul-97	7	1997	11 47	48 10.8	124 44.6	OC
67	3-Aug-97	8	1997	13 15	48 09.9	124 45.3	OC
67	8-Oct-97	10	1997	10 30	48 21.5	124 33.4	SJF
68	18-Jul-97	7	1997	10 29	48 23.4	124 37.6	SJF
68	1-Aug-97	8	1997	13 18	48 23.2	124 36.8	SJF

68	3-Aug-97	8	1997	10 14	48 23.6	124 39.2	SJF
81	23-Sep-97	9	1997	11 55	48 23.4	124 42.4	SJF
83	12-Jul-97	7	1997	17 55	48 10.0	124 45.2	OC
92	2-Sep-97	9	1997	15 30	48 10.2	124 45.5	OC
93	23-Sep-97	9	1997	17 45	48 42.2	125 00.5	SVI
107	11-Jul-97	7	1997	16 50	48 39.5	124 20.1	SVI
107	22-Aug-97	8	1997	13 00	48 19.0	124 40.7	SJF
127	3-Aug-97	8	1997	18 38	48 23.7	124 40.3	SJF
127	4-Aug-97	8	1997	14 04	48 23.5	124 41.0	SJF
127	4-Aug-97	8	1997	14 50	48 23.6	124 41.3	SJF
127	11-Aug-97	8	1997	11 45	48 23.5	124 42.4	SJF
141	28-Aug-97	8	1997	16 07	48 08.1	124 03.9	OC
166	12-Jul-97	7	1997	19 15	48 14.7	124 42.5	OC
166	28-Aug-97	8	1997	10 40	48 22.4	124 44.0	OC
166	2-Sep-97	9	1997	15 30	48 10.2	124 45.5	OC
166	6-Sep-97	9	1997	10 28	48 21.7	124 33.2	SJF
166	6-Sep-97	9	1997	14 07	48 18.4	124 25.2	SJF
174	22-Aug-97	8	1997	16 30	48 07.4	124 44.0	OC
174	28-Aug-97	8	1997	16 07	48 08.1	124 03.9	OC
174	2-Sep-97	9	1997	16 55	48 21.8	124 33.5	OC
175	1-Jul-97	7	1997	11 47	48 21.7	124 32.7	SJF
175	1-Jul-97	7	1997	14 00	48 20.3	124 29.5	SJF
175	3-Jul-97	7	1997	10 50	48 21.7	124 32.7	SJF
175	29-Jul-97	7	1997	18 40	48 23.5	124 42.5	SJF
175	1-Aug-97	8	1997	14 20	48 23.3	124 42.4	SJF
175	2-Aug-97	8	1997	15 39	48 23.4	124 43.5	OC
175	24-Aug-97	8	1997	15 15	48 20.2	124 29.6	SJF
175	27-Aug-97	8	1997	13 23	48 20.6	124 30.3	SJF
175	6-Sep-97	9	1997	10 28	48 21.7	124 33.2	SJF
175	6-Sep-97	9	1997	14 07	48 18.4	124 25.2	SJF
177	26-Jul-97	7	1997	17 18	48 23.6	124 34.7	SJF
177	28-Aug-97	8	1997	16 07	48 08.1	124 43.9	OC
177	2-Sep-97	9	1997	15 57	48 09.2	124 45.4	OC
177	5-Sep-97	9	1997	18 40	48 22.6	124 34.6	SJF
177	8-Sep-97	9	1997	11 53	48 23.6	124 40.9	SJF
177	20-Sep-97	9	1997	15 36	48 18.6	124 22.7	SJF
178	1-Jul-97	7	1997	11 47	48 20.0	124 29.2	SJF
178	1-Jul-97	7	1997	14 00	48 20.3	124 29.5	SJF
178	3-Jul-97	7	1997	10 50	48 21.7	124 32.7	SJF
178	22-Jul-97	7	1997	13 37	48 23.4	124 42.1	OC
178	28-Aug-97	8	1997	14 57	48 09.8	124 45.3	OC
178	7-Oct-97	10	1997	09 00	48 21.8	124 33.5	SJF
178	7-Oct-97	10	1997	08 35	48 21.6	124 32.7	SJF
180	12-Jun-97	6	1997		48 21.6	124 33.1	SJF
180	20-Jun-97	6	1997	11 30	48 23.3	124 35.6	SJF
180	1-Jul-97	7	1997	14 37	48 20.5	124 29.8	SJF
180	14-Jul-97	7	1997	17 31	48 22.0	124 32.7	SJF
180	16-Jul-97	7	1997	14 38	48 19.5	124 27.8	SJF
180	17-Jul-97	7	1997	11 11	48 20.4	124 29.7	SJF
180	17-Jul-97	7	1997	14 26	48 21.7	124 31.7	SJF
185	20-Jun-97	6	1997	10 52	48 21.7	124 32.3	SJF
185	1-Jul-97	7	1997	11 47	48 21.7	124 32.7	SJF
185	16-Aug-97	8	1997	11 03	48 22.5	124 44.0	OC
185	18-Aug-97	8	1997	10 34	48 22.3	124 34.1	SJF
185	8-Sep-97	9	1997	15 18	48 21.7	124 32.8	SJF
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185	28-Sep-97	9	1997	16 19	48 21.6	124 33.0	SJF
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185	29-Sep-97	9	1997	14 38	48 21.9	124 32.8	SJF
185	29-Sep-97	9	1997	15 18	48 21.7	124 33.2	SJF
187	12-Jul-97	7	1997	16 25	48 09.1	124 44.7	OC
187	1-Aug-97	8	1997	14 20	48 23.3	124 42.4	SJF
187	28-Aug-97	8	1997	14 57	48 09.8	124 45.3	OC
187	20-Sep-97	9	1997	16 46	48 17.7	124 21.8	SJF
187	20-Sep-97	9	1997	15 36	48 18.6	124 22.7	SJF
192	2-Sep-97	9	1997	15 57	48 09.2	124 45.4	OC
205	1-Aug-97	8	1997	14 44	48 23.2	124 43.5	OC
205	2-Aug-97	8	1997	15 39	48 23.4	124 43.5	OC
205	3-Aug-97	8	1997	09 47	48 22.0	124 37.4	SJF
205	4-Aug-97	8	1997	14 50	48 23.5	124 41.2	SJF
205	17-Aug-97	8	1997	10 37	48 23.5	124 42.9	SJF
205	2-Sep-97	9	1997	13 35	48 23.6	124 42.6	SJF
205	5-Sep-97	9	1997	17 50	48 23.6	124 42.8	SJF
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209	3-Jul-97	7	1997	17 41	48 23.6	124 41.0	SJF
209	6-Jul-97	7	1997	13 17	48 23.7	124 40.0	SJF
209	10-Jul-97	7	1997	15 50	48 23.2	124 42.4	SJF
209	18-Jul-97	7	1997	10 29	48 23.4	124 37.6	SJF
209	18-Jul-97	7	1997	18 22	48 23.6	124 39.4	SJF
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209	2-Aug-97	8	1997	15 39	48 23.4	124 43.5	OC
209	4-Aug-97	8	1997	13 48	48 23.5	124 41.3	SJF
209	16-Aug-97	8	1997	11 03	48 22.5	124 44.0	OC
209	17-Aug-97	8	1997	11 09	48 22.7	124 44.3	OC
209	22-Aug-97	8	1997	15 20	48 09.2	124 45.2	OC
209	28-Aug-97	8	1997	16 07	48 08.1	124 03.9	OC
209	2-Sep-97	9	1997	13 20	48 23.5	124 39.7	SJF
212	12-Jun-97	6	1997		48 21.6	124 33.1	SJF
212	13-Jun-97	6	1997		48 23.3	124 42.4	SJF
212	1-Jul-97	7	1997	15 41	48 18.4	124 25.4	SJF
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217	20-Sep-97	9	1997	12 31	48 21.7	124 32.5	SJF
217	28-Sep-97	9	1997	16 19	48 21.6	124 33.0	SJF
217	6-Oct-97	10	1997	10 08	48 19.5	124 28.1	SJF
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218	27-Aug-97	8	1997	14 12	48 19.8	124 28.7	SJF
219	31-May-97	5	1997	09 00	48 23.6	124 38.1	SJF
219	31-May-97	5	1997	14 30	48 23.6	124 40.7	SJF
219	1-Jun-97	6	1997	15 30	48 23.5	124 35.9	SJF
219	2-Jun-97	6	1997	10 20	48 23.3	124 37.7	SJF
220	17-Jul-97	7	1997	10 19	48 21.2	124 31.8	SJF
220	26-Jul-97	7	1997	17 18	48 23.6	124 34.7	SJF
220	3-Aug-97	8	1997	10 02	48 23.6	124 40.1	SJF
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220	18-Aug-97	8	1997	10 34	48 22.3	124 34.1	SJF
220	18-Aug-97	8	1997	13 32	48 21.8	124 32.7	SJF
220	27-Aug-97	8	1997	10 00	48 23.0	124 37.6	SJF
220	27-Aug-97	8	1997	11 53	48 22.3	124 34.3	SJF
220	8-Sep-97	9	1997	11 53	48 23.6	124 40.9	SJF

220	29-Sep-97	9	1997	13 13	48 21.4	124 32.7	SJF
220	29-Sep-97	9	1997	15 18	48 21.7	124 33.2	SJF
220	30-Sep-97	9	1997	15 01	48 21.7	124 32.5	SJF
15	1-Jul-98	7	1998		48 41.4	124 55.6	SVI
15	16-Jul-98	7	1998		48 21	124 42	NWA
30	25-Sep-98	9	1998		48 19.3	124 27.1	WSJF
37	15-Sep-98	9	1998		48 23.1	124 44.1	NWA
41	1-Jul-98	7	1998		48 41.4	124 55.6	SVI
41	1-Sep-98	9	1998		48 43	125 05	SVI
42	14-Oct-98	10	1998		48 21.5	124 32.5	WSJF
42	15-Oct-98	10	1998		48 21.7	124 33	WSJF
43	24-Jul-98	7	1998		48 10.5	124 46	NWA
79	26-Aug-98	8	1998		48 42	124 57	SVI
80	1-Jul-98	7	1998		48 41.4	124 55.6	SVI
80	25-Aug-98	8	1998		48 37.3	124 47	SVI
80	28-Aug-98	8	1998		48°36	124°45	SVI
80	4-Sep-98	9	1998		48 37.3	124 47	SVI
80	22-Sep-98	9	1998		48 33.4	124 34.8	SVI
81	15-Sep-98	9	1998		48 23.1	124 44.1	NWA
83	16-Aug-98	8	1998		48 11.0	124 44.4	NWA
84	1-Jul-98	7	1998		48 41.4	124 55.6	SVI
84	1-Jul-98	7	1998		48 41.4	124 55.6	SVI
85	1-Jul-98	7	1998		48 37.1	124 46.5	SVI
85	29-Jul-98	7	1998		48 21	124 42	NWA
85	30-Jul-98	7	1998		48 21	124 42	NWA
91	9-Jul-98	7	1998		48 20.6	124 42.5	NWA
91	31-Aug-98	8	1998		48 19	124 26.5	NWA
92	1-Jul-98	7	1998		48 37.1	124 46.5	SVI
92	3-Jul-98	7	1998		48 39	124 49	SVI
92	30-Jul-98	7	1998		48 08	124 44	NWA
92	22-Sep-98	9	1998		48 34.2	124 39.1	SVI
93	21-Jul-98	7	1998		48 41.5	124 57.7	SVI
93	24-Aug-98	8	1998		48 05	124 43	NWA
101	1-Jul-98	7	1998		48 41.4	124 55.6	SVI
101	3-Jul-98	7	1998		48 39	124 49	SVI
101	25-Aug-98	8	1998		48 36.3	124 47	SVI
101	25-Sep-98	9	1998		48 19.3	124 27.1	WSJF
107	6-Jun-98	6	1998		48 20.1	124 41.5	NWA
123	3-Jul-98	7	1998		48 38	124 47.5	SVI
130	3-Jul-98	7	1998		48 38	124 47.5	SVI
135	1-Jul-98	7	1998		48 41.4	124 55.6	SVI
138	22-Sep-98	9	1998		48 41.8	124 58.3	SVI
140	17-Aug-98	8	1998		48 23.7	124 40.0	WSJF
141	1-Jul-98	7	1998		48 41.4	124 55.6	SVI
150	1-Jul-98	7	1998		48 37.1	124 46.5	SVI
150	22-Sep-98	9	1998		48 34.2	124 39.1	SVI
166	30-Jul-98	7	1998		48 10	124 44.5	NWA
166	1-Sep-98	9	1998		48 10	124 45	NWA
175	22-Jul-98	7	1998		48 22	124 43.5	NWA
175	5-Sep-98	9	1998		48 17.3	124 41.6	NWA
175	16-Oct-98	10	1998		48 17.3	124 41.4	NWA
186	1-Jul-98	7	1998		48 42	124 58	SVI
186	1-Jul-98	7	1998		48 41.4	124 55.6	SVI
187	24-Jul-98	7	1998		48 17.2	124 41.5	NWA

187	30-Jul-98	7	1998	48 18.9	124 40.6	NWA
187	6-Aug-98	8	1998	48 21	124 42	NWA
187	16-Aug-98	8	1998	48 17.4	124 41.5	NWA
187	31-Aug-98	8	1998	48 19	124 26.5	NWA
187	5-Sep-98	9	1998	48 14.5	124 43	NWA
187	6-Sep-98	9	1998	48 17.4	124 41.4	NWA
187	19-Sep-98	9	1998	48 18.9	124 40.6	NWA
187	16-Oct-98	10	1998	48 14	124 42.6	NWA
187	21-Oct-98	10	1998	48 12.4	124 42.5	NWA
187	18-Nov-98	11	1998	48 10.3	124 45.4	NWA
192	1-Jul-98	7	1998	48 41.4	124 55.6	SVI
192	25-Aug-98	8	1998	48 37.3	124 47	SVI
192	5-Sep-98	9	1998	48 14.5	124 43	NWA
192	5-Sep-98	9	1998	48 13.6	124 42.7	NWA
192	6-Sep-98	9	1998	48 14	124 42.6	NWA
192	15-Sep-98	9	1998	48 14	124 42.6	NWA
192	15-Sep-98	9	1998	48 13.6	124 42.7	NWA
192	16-Sep-98	9	1998	48 13	124 42	NWA
192	21-Oct-98	10	1998	48 10	124 45	NWA
209	22-Jul-98	7	1998	48 21	124 42	NWA
212	1-Jul-98	7	1998	48 37.1	124 46.5	SVI
212	25-Aug-98	8	1998	48 37.3	124 47	SVI
212	28-Aug-98	8	1998	48°36	124°45	SVI
212	4-Sep-98	9	1998	48 37.3	124 47	SVI
212	22-Sep-98	9	1998	48 34.2	124 39.1	SVI
219	1-Jul-98	7	1998	48 41.4	124 55.6	SVI
219	3-Jul-98	7	1998	48 38	124 47.5	SVI
219	21-Jul-98	7	1998	48 37.1	124 46.5	SVI
219	25-Aug-98	8	1998	48 37.3	124 47	SVI
219	4-Sep-98	9	1998	48 37.3	124 47	SVI
227	1-Jul-98	7	1998	48 36.2	124 44.6	SVI
227	3-Jul-98	7	1998	48 40	124 51	SVI
228	1-Nov-98	11	1998	48 19.4	124 27.3	WSJF
228	4-Nov-98	11	1998	48 21.8	124 33.2	WSJF
231	1-Jul-98	7	1998	48 36.2	124 44.6	SVI
231	3-Jul-98	7	1998	48 37.3	124 47	SVI
231	21-Jul-98	7	1998	48 37.1	124 46.5	SVI
231	25-Aug-98	8	1998	48 37.1	124 46.5	SVI
231	4-Sep-98	9	1998	48 37.1	124 46.5	SVI
231	22-Sep-98	9	1998	48 38	124 47.5	SVI
232	17-Jul-98	7	1998	48 36	124 43	SVI
232	25-Aug-98	8	1998	48 36	124 43	SVI
233	1-Jul-98	7	1998	48 37.1	124 46.5	SVI
233	3-Jul-98	7	1998	48 37.3	124 47	SVI
234	1-Jul-98	7	1998	48 42	124 58	SVI
236	25-Aug-98	8	1998	48 36	124 43	SVI
236	28-Aug-98	8	1998	48°36	124°45	SVI
238	1-Jul-98	7	1998	48 41.4	124 55.6	SVI
239	14-Oct-98	10	1998	48 19.2	124 27.2	WSJF
239	15-Oct-98	10	1998	48 20.1	124 29	WSJF
239	15-Oct-98	10	1998	48 21.7	124 33	WSJF
239	22-Oct-98	10	1998	48 21.3	124 32.6	WSJF
242	17-Jul-98	7	1998	48 36	124 43	SVI
242	21-Sep-98	9	1998	48 07.5	124 44	NWA
242	18-Oct-98	10	1998	48 21.8	124 33.1	WSJF
242	21-Oct-98	10	1998	48 21.3	124 32.6	WSJF

242	31-Oct-98	10	1998		48 21.6	124 33.3	WSJF
242	5-Nov-98	11	1998		48 21.6	124 33.3	WSJF
243	17-Jul-98	7	1998		48 36	124 43	SVI
244	22-Sep-98	9	1998		48 33.4	124 34.8	SVI
246	3-Jul-98	7	1998		48 33	124 33	SVI
249	14-Oct-98	10	1998		48 20	124 29	WSJF
249	15-Oct-98	10	1998		48 21.8	124 33.1	WSJF
249	15-Oct-98	10	1998		48 21.7	124 33	WSJF
249	18-Oct-98	10	1998		48 21.8	124 33.1	WSJF
250	7-Nov-98	11	1998		48 21.5	124 32.5	WSJF
251	9-Jul-98	7	1998		48 11.3	124 43.6	NWA
252	5-Nov-98	11	1998		48 21.6	124 33.3	WSJF
253	31-Oct-98	10	1998		48 21.6	124 33.3	WSJF
254	1-Sep-98	9	1998		48 43	125 05	SVI
255	14-Oct-98	10	1998		48 19.2	124 27.2	WSJF
255	15-Oct-98	10	1998		48 21.7	124 33	WSJF
255	17-Oct-98	10	1998		48 19	124 26	WSJF
255	18-Oct-98	10	1998		48 21.5	124 32.5	WSJF
255	21-Oct-98	10	1998		48 21.3	124 32.6	WSJF
255	22-Oct-98	10	1998		48 20.5	124 30.0	WSJF
255	28-Oct-98	10	1998		48 20	124 29.1	WSJF
272	31-Aug-98	8	1998		48 16.90	124 46.35	NWA
304	15-Sep-98	9	1998		48 14	124 42.6	NWA
304	19-Sep-98	9	1998		48 10.1	124 45.2	NWA
304	21-Oct-98	10	1998		48 10	124 45	NWA

15	4-Aug-99	8	1999	18 44	48 44.020	125 07.380	SVI
15	14-Aug-99	8	1999	1441	48 40.77	124 54.66	SVI
21	21-May-99	5	1999		48 07.157	122 28.072	NPS
22	21-May-99	5	1999		48 07.157	122 28.072	NPS
30	7-Aug-99	8	1999	16 49	49 29.530	126 35.367	WVI
30	13-Aug-99	8	1999		49 30.160	126 34.962	WVI
30	11-Sep-99	9	1999		49 28	126 35	WVI
30	11-Sep-99	9	1999		49 28	126 35	WVI
30	12-Sep-99	9	1999		49 29	126 34	WVI
32	11-Aug-99	8	1999		51:09	127:45	NBC
32	11-Aug-99	8	1999		51 07.837	127 42.962	NBC
37	8-Aug-99	8	1999		49 36.437	126 52.073	WVI
37	8-Aug-99	8	1999		49 36	126 51	WVI
41	30-Jun-99	6	1999		48 39.989	124 51.228	SVI
41	10-Aug-99	8	1999		51 51	128 14	NBC
42	23-Jul-99	7	1999		48 40	124 50	SVI
42	4-Aug-99	8	1999		48 42	124 57.5	SVI
42	4-Aug-99	8	1999	16 44	48 42.188	124 59.705	SVI
42	26-Aug-99	8	1999		48 20	124 30	SJF
42	12-Sep-99	9	1999		49 28	126 35	WVI
42	29-Sep-99	9	1999	1046	48 21	124 32	SJF
42	4-Oct-99	10	1999		48 22	124 34	SJF
42	13-Oct-99	10	1999	1050	48 21	124 33	SJF
42	14-Oct-99	10	1999	0958	48 21	124 33	SJF
42	19-Oct-99	10	1999		48 21	124 31	SJF
43	23-Jul-99	7	1999		48 40	124 50	SVI
43	4-Aug-99	8	1999		48 42	124 57.5	SVI
43	4-Aug-99	8	1999	16 44	48 42.188	124 59.705	SVI
67	23-Nov-99	11	1999	1244	48 10	124 44	NWA

79	29-Jun-99	6	1999		48 22.071	124 43.655	NWA
80	23-Jul-99	7	1999		48 40	124 50	SVI
80	14-Sep-99	9	1999		48 10	124 45	NWA
80	13-Oct-99	10	1999	1224	48 20	124 42	NWA
81	8-Aug-99	8	1999		49 36.437	126 52.073	WVI
81	8-Aug-99	8	1999		49 36	126 51	WVI
81	11-Sep-99	9	1999		49 28	126 35	WVI
81	12-Sep-99	9	1999		49 36	126 51	WVI
81	29-Sep-99	9	1999	1430	48 11.96	124 44.22	NWA
83	12-Aug-99	8	1999		49 37	126 51	WVI
83	12-Aug-99	8	1999		49 37.757	126 51.225	WVI
84	7-Aug-99	8	1999	14 29	49 23.955	126 35.501	WVI
84	7-Aug-99	8	1999	15 43	49 22	126 33	WVI
84	13-Aug-99	8	1999		49 23	126 27	WVI
86	10-Aug-99	8	1999		50 48.514	128 16.223	NBC
86	11-Sep-99	9	1999		49 25	126 34	WVI
86	12-Sep-99	9	1999		49 28	126 35	WVI
87	7-Aug-99	8	1999		49 25	126 36	WVI
87	7-Aug-99	8	1999	14 52	49 25	126 36	WVI
87	7-Aug-99	8	1999	15 43	49 22	126 33	WVI
87	7-Aug-99	8	1999	15 11	49 25	126 36	WVI
92	30-Jun-99	6	1999		48 40.319	124 52.539	SVI
92	7-Aug-99	8	1999	16 45	49 26.319	126 35.340	WVI
92	13-Aug-99	8	1999		49 23.922	126 36.018	WVI
92	13-Aug-99	8	1999		49 23.922	126 36.018	WVI
92	11-Sep-99	9	1999		49 25	126 34	WVI
94	13-Aug-99	8	1999		49 23	126 27	WVI
98	10-Aug-99	8	1999		51 51	128 14	NBC
105	10-Aug-99	8	1999		50 48.514	128 16.223	NBC
123	23-Jul-99	7	1999		48 40	124 50	SVI
135	8-Aug-99	8	1999		49 36.437	126 52.073	WVI
135	8-Aug-99	8	1999		49 36	126 51	WVI
135	12-Aug-99	8	1999		49 37.757	126 51.225	WVI
135	11-Sep-99	9	1999		49 28	126 35	WVI
135	12-Sep-99	9	1999		49 29	126 34	WVI
136	8-Aug-99	8	1999	13 13	49 37	126 51	WVI
138	11-Aug-99	8	1999		51 07.837	127 42.962	NBC
138	11-Aug-99	8	1999		51:09	127:45	NBC
141	7-Aug-99	8	1999	15 05	49 25	126 36	WVI
141	13-Aug-99	8	1999		49 23	126 27	WVI
141	12-Sep-99	9	1999		49 28	126 35	WVI
141	29-Sep-99	9	1999	1430	48 11.96	124 44.22	NWA
143	30-Jun-99	6	1999		48 42.138	125 00.635	SVI
143	8-Aug-99	8	1999		49 36	126 51	WVI
143	8-Aug-99	8	1999	13 52	49 38	126 53	WVI
143	12-Aug-99	8	1999		49 37.757	126 51.225	WVI
143	12-Sep-99	9	1999		49 36	126 51	WVI
144	13-Aug-99	8	1999		49 25.938	126 35.549	WVI
153	10-Aug-99	8	1999		51 51	128 14	NBC
166	4-Aug-99	8	1999	18 05	48 42.658	125 02.042	SVI
166	4-Aug-99	8	1999	15 09	48 41.321	124 56.391	SVI
175	7-Aug-99	8	1999	10 51	49 15	126 13	WVI
175	13-Aug-99	8	1999		49 15	126 11	WVI
175	11-Sep-99	9	1999		49 28	126 35	WVI
177	23-Jul-99	7	1999		48 42.490	125 00.69	SVI



177	4-Aug-99	8	1999		48 41	124 55	SVI
177	4-Aug-99	8	1999	16 19	48 41.931	124 57.920	SVI
177	4-Aug-99	8	1999	15 09	48 41.321	124 56.391	SVI
177	4-Aug-99	8	1999	16 44	48 42.188	124 59.705	SVI
177	14-Aug-99	8	1999		48 42.227	124 59.656	SVI
177	28-Sep-99	9	1999	1426	48 10.77	124 44.96	NWA
177	18-Oct-99	10	1999		48 07	124 43	NWA
178	7-Aug-99	8	1999	15 11	49 25	126 36	WVI
185	30-Jun-99	6	1999		48 42.924	125 03.348	SVI
185	7-Aug-99	8	1999	10 30	49 15	126 10	WVI
185	26-Aug-99	8	1999		48 20	124 30	SJF
185	4-Oct-99	10	1999		48 22	124 34	SJF
185	14-Oct-99	10	1999	0958	48 21	124 33	SJF
185	19-Oct-99	10	1999		48 21	124 31	SJF
186	13-Aug-99	8	1999		49 30.160	126 34.962	WVI
187	23-Jul-99	7	1999		48 40	124 50	SVI
187	4-Aug-99	8	1999	16 19	48 41.931	124 57.920	SVI
187	4-Aug-99	8	1999	15 09	48 41.321	124 56.391	SVI
187	12-Sep-99	9	1999		49 28	126 35	WVI
192	30-Jun-99	6	1999		48 42.924	125 03.348	SVI
192	23-Jul-99	7	1999		48 42.490	125 00.69	SVI
192	4-Aug-99	8	1999	18 15	48 42.852	125 03.041	SVI
205	28-Aug-99	8	1999		48 19	124 41	NWA
205	29-Aug-99	8	1999	1045	48 20.44	124 42.43	NWA
205	28-Sep-99	9	1999	1222	48 10.75	124 45.06	NWA
205	28-Sep-99	9	1999	1426	48 10.77	124 44.96	NWA
205	18-Oct-99	10	1999		48 07	124 43	NWA
205	2-Nov-99	11	1999		48 07	124 43	NWA
212	23-Jul-99	7	1999		48 43	125 06	SVI
212	10-Sep-99	9	1999		48 43	125 06	SVI
219	23-Jul-99	7	1999		48 40	124 50	SVI
219	14-Aug-99	8	1999		48 42.227	124 59.656	SVI
229	8-Aug-99	8	1999	13 52	49 38	126 53	WVI
229	8-Aug-99	8	1999		49 36	126 51	WVI
229	12-Aug-99	8	1999		49 37.757	126 51.225	WVI
231	30-Jun-99	6	1999		48 41.088	124 55.414	SVI
231	4-Aug-99	8	1999	13 08	48 35.050	124 42.017	SVI
231	14-Aug-99	8	1999		48 37.93	124 41.37	SVI
234	13-Aug-99	8	1999		49 25.938	126 35.549	WVI
234	11-Sep-99	9	1999		49 28	126 35	WVI
234	12-Sep-99	9	1999		49 36	126 51	WVI
236	10-Aug-99	8	1999		51 51	128 14	NBC
238	11-Aug-99	8	1999		51 07.837	127 42.962	NBC
238	11-Aug-99	8	1999		51:09	127:45	NBC
242	23-Jul-99	7	1999		48 40	124 50	SVI
242	4-Aug-99	8	1999	16 44	48 42.188	124 59.705	SVI
242	14-Aug-99	8	1999		48 42.227	124 59.656	SVI
242	29-Sep-99	9	1999	1046	48 21	124 32	SJF
242	4-Oct-99	10	1999		48 22	124 34	SJF
242	14-Oct-99	10	1999	0958	48 21	124 33	SJF
242	19-Oct-99	10	1999		48 21	124 31	SJF
242	3-Nov-99	11	1999		48 19	124 27	SJF
244	8-Aug-99	8	1999		49 36.437	126 52.073	WVI
244	8-Aug-99	8	1999		49 36	126 51	WVI
244	13-Aug-99	8	1999		49 26.550	126 34.700	WVI

254	7-Aug-99	8	1999	14 52	49 25	126 36	WVI
254	7-Aug-99	8	1999		49 25	126 36	WVI
254	13-Aug-99	8	1999		49 23.922	126 36.018	WVI
254	12-Sep-99	9	1999		49 28	126 35	WVI
273	16-Apr-99	4	1999		48 00.129	122 15.176	NPS
273	21-May-99	5	1999		48 00.855	122 15.980	NPS
281	8-Aug-99	8	1999		49 36.437	126 52.073	WVI
281	8-Aug-99	8	1999		49 36	126 51	WVI
281	12-Aug-99	8	1999		49 37.757	126 51.225	WVI
296	13-Aug-99	8	1999		49 23	126 27	WVI
296	12-Sep-99	9	1999		49 28	126 35	WVI
300	7-Aug-99	8	1999	14 29	49 23.955	126 35.501	WVI
300	11-Sep-99	9	1999		49 25	126 34	WVI
309	13-Aug-99	8	1999		49 23.922	126 36.018	WVI
315	11-Aug-99	8	1999		51 08.000	127 42.146	NBC
320	13-Aug-99	8	1999		49 15	126 11	WVI
328	13-Aug-99	8	1999		49 28.073	126 35.373	WVI
328	11-Sep-99	9	1999		49 25	126 34	WVI
328	12-Sep-99	9	1999		49 28	126 35	WVI
351	8-Aug-99	8	1999	13 39	49 37	126 51	WVI
351	8-Aug-99	8	1999		49 36	126 51	WVI
355	28-Jul-99	7	1999		48 23	124 37	SJF
372	23-Jul-99	7	1999		48 40	124 50	SVI
372	4-Aug-99	8	1999	15 09	48 41.321	124 56.391	SVI
372	4-Aug-99	8	1999	16 19	48 41.931	124 57.920	SVI
372	14-Aug-99	8	1999		48 42.227	124 59.656	SVI
382	8-Aug-99	8	1999		49 36.437	126 52.073	WVI
382	8-Aug-99	8	1999		49 36	126 51	WVI
382	12-Sep-99	9	1999		49 29	126 34	WVI
384	8-Aug-99	8	1999	13 52	49 38	126 53	WVI
384	8-Aug-99	8	1999		49 36	126 51	WVI
385	12-Aug-99	8	1999		49 37	126 51	WVI
385	12-Aug-99	8	1999		49 37.757	126 51.225	WVI
392	7-Aug-99	8	1999	15 11	49 25	126 36	WVI
392	7-Aug-99	8	1999		49 24.996	126 36.420	WVI
392	7-Aug-99	8	1999		49 25	126 36	WVI
392	13-Aug-99	8	1999		49 23.922	126 36.018	WVI
393	8-Aug-99	8	1999	13 48	49 38.353	126 53.222	WVI
393	12-Aug-99	8	1999		49 37.757	126 51.225	WVI
424	13-Aug-99	8	1999		49 23	126 27	WVI
425	21-May-99	5	1999		48 02.519	122 24.082	NPS
433	8-Aug-99	8	1999	13 33	49 37	126 51	WVI
451	8-Aug-99	8	1999		49 36.437	126 52.073	WVI
467	21-May-99	5	1999		48 00.855	122 15.980	NPS
477	8-Aug-99	8	1999	13 13	49 37	126 51	WVI
485	8-Aug-99	8	1999	13 13	49 37	126 51	WVI
485	8-Aug-99	8	1999		49 36	126 51	WVI
15	19-Aug-00	8	2000	16:22	49 36.337	126 51.530	WVI
15	20-Aug-00	8	2000	10:58	49 25.797	126 35.661	WVI
21	2-Jun-00	6	2000	13:12	48 00	122 16	NPS
22	2-Jun-00	6	2000	17:40	48 02.5	122 25	NPS
22	2-Jun-00	6	2000	14:57	48 02	122 22	NPS

30	18-Aug-00	8	2000	15:38	49 22.241	126 32.275	WVI
30	20-Aug-00	8	2000	10:58	49 25.797	126 35.661	WVI
37	20-Aug-00	8	2000	10:20	49 28.701	126 35.124	WVI
41	18-Aug-00	8	2000	17:06	49 25.8	126 35.7	WVI
41	20-Aug-00	8	2000	12:18	49 25.797	126 35.661	WVI
42	18-Aug-00	8	2000	15:13	49 22.241	126 32.275	WVI
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84	20-Sep-00	9	2000		48 50	125 20	WVI
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87	23-Sep-00	9	2000		48 42.5	125 02	SVI
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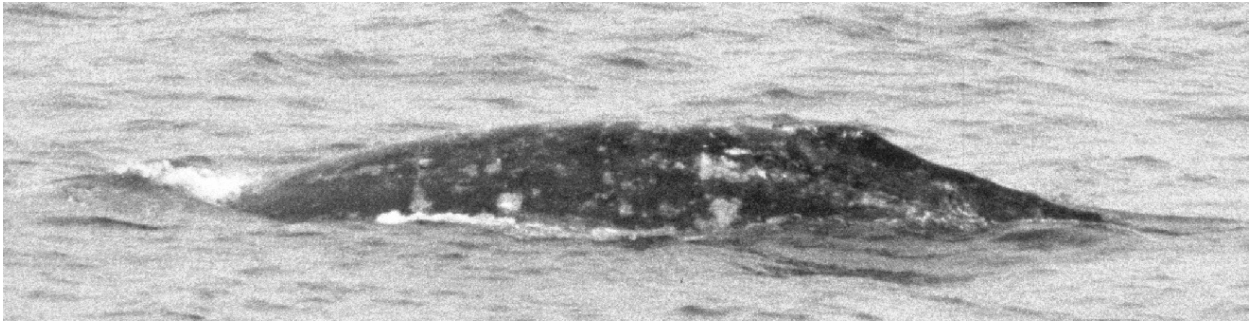
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216	28-Jul-03	7	2003	12:02	48 10	124 44.5	NWA
216	26-Aug-03	8	2003	11:50	48 21.74	124 33.19	SJF
216	3-Sep-03	9	2003	10:20	48 22.25	124 34.18	SJF
216	4-Sep-03	9	2003	9:39	48 21.39	124 32.6	SJF
216	17-Sep-03	9	2003	13:27	48 21.8	124 33.3	SJF
216	17-Sep-03	9	2003	14:50	48 20.2	124 29.3	SJF
216	22-Sep-03	9	2003	8:00			SJF
216	24-Sep-03	9	2003	15:35	48 23.13	124 35.64	SJF
216	5-Oct-03	10	2003	10:21	48 21.17	124 43.16	NWA
216	15-Oct-03	10	2003	8:51	48 22.7	124 34.8	SJF
216	15-Oct-03	10	2003	9:50	48 23.15	124 37.58	SJF
291	25-Jun-03	6	2003	8:40	48 23.70	124 40.73	SJF
291	25-Jun-03	6	2003	13:58	48 23.15	124 36.23	SJF
296	24-Sep-03	9	2003	10:05	48 18.09	124 41.55	NWA
296	15-Oct-03	10	2003	10:26	48 22.00	124 44.03	NWA
297	21-Aug-03	8	2003	12:15	48 13.69	124 42.38	NWA
311	26-Oct-03	10	2003	12:15	41 45.81	124 16.07	NCA
392	25-Jun-03	6	2003	9:30	48 20.76	124 42.16	NWA
396	9-Sep-03	9	2003	9:45	48 15.94	124 41.95	NWA
396	24-Sep-03	9	2003	10:05	48 18.09	124 41.55	NWA
396	15-Oct-03	10	2003		48 22.22	124 34.31	SJF
567	5-Oct-03	10	2003	13:06	48 09.20	124 45.23	NWA
605	24-Sep-03	9	2003	11:32	48 10.39	124 45.95	NWA
605	24-Sep-03	9	2003	12:20	48 09.38	124 45.39	NWA
641	17-Sep-03	9	2003	10:43	48 21.3	124 42	NWA
692	25-Jun-03	6	2003	8:40	48 23.70	124 40.73	SJF
696	11-Jun-03	6	2003	9:36	48 23.	124 37.7	SJF
696	4-Sep-03	9	2003	11:50	48 21.4	124 32.6	SJF
696	4-Sep-03	9	2003	11:50	48 21.4	124 32.6	SJF
696	10-Sep-03	9	2003	9:14	48 19.47	124 27.34	SJF
696	23-Sep-03	9	2003	10:59	48 22.52	124 34.68	SJF
696	24-Sep-03	9	2003	9:03	48 21.17	124 42.96	NWA
696	24-Sep-03	9	2003	15:22	48 23.22	124 37.58	SJF
696	15-Oct-03	10	2003	10:26	48 22.00	124 44.03	NWA
720	3-Sep-03	9	2003	10:20	48 22.25	124 34.18	SJF
720	4-Sep-03	9	2003	11:50	48 21.4	124 32.6	SJF
720	4-Sep-03	9	2003	11:50	48 21.4	124 32.6	SJF
782	26-Jul-03	7	2003		48 22.08	124 43.9	NWA
782	26-Jul-03	7	2003		48 10.52	124 45.98	NWA
782	5-Aug-03	8	2003	15:07	48 23.56	124 41.53	SJF
782	15-Aug-03	8	2003		48 23.47	124 42.21	SJF
782	21-Aug-03	8	2003	14:18	48 21.71	124 43.03	NWA
782	26-Aug-03	8	2003	13:15	48 18.84	124 26.20	SJF
782	26-Aug-03	8	2003	14:43	48 19.32	124 26.89	SJF
782	2-Oct-03	10	2003	16:25	48 23.61	124 38.45	SJF
783	26-Jul-03	7	2003	15:13	48 08.92	124 44.71	NWA
783	28-Jul-03	7	2003	11:38	48 10	124 44.5	NWA
783	28-Jul-03	7	2003	12:02	48 10	124 44.5	NWA
785	21-May-03	5	2003	17:10	48 18.64	124 25.90	SJF
785	11-Jun-03	6	2003	17:35	48 23.56	124 41.45	SJF
785	21-Aug-03	8	2003	11:09	48 22.04	124 43.5	NWA
788	5-Oct-03	10	2003	11:47	48 11.24	124 43.20	NWA

## GRAY WHALE No. 14



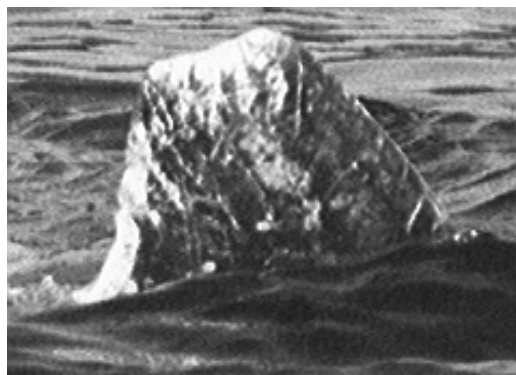
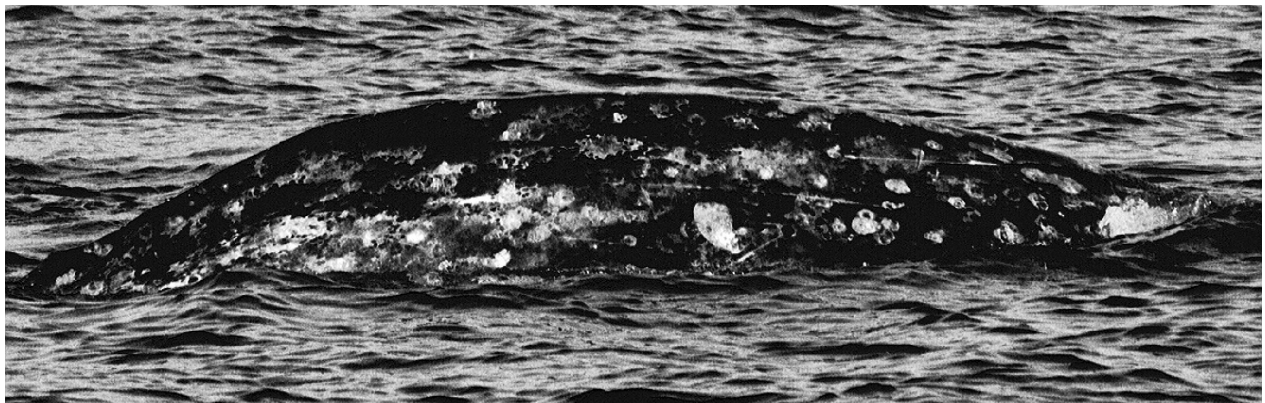
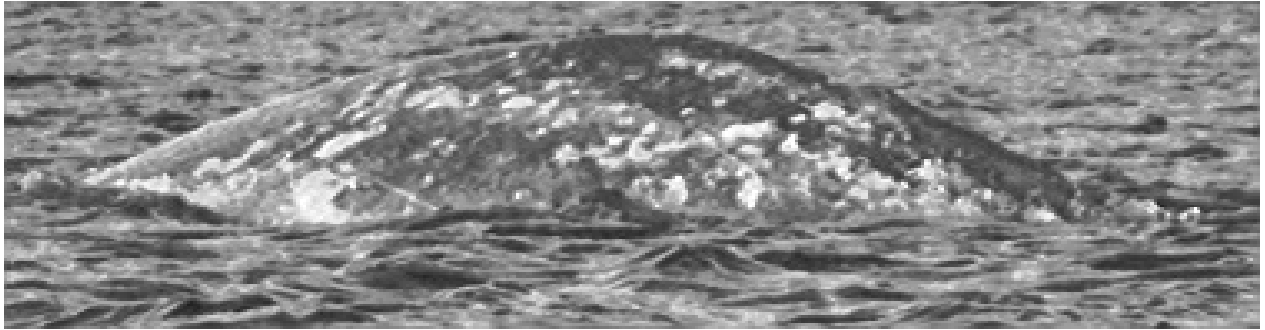
ER #14 was sighted 2 miles south of Yellow Bank on the northern Washington coast on 27 July 2001.

## GRAY WHALE NO. 15



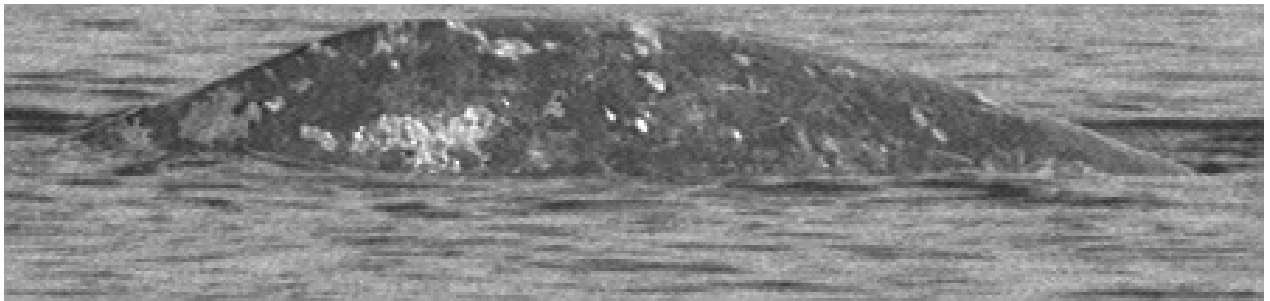
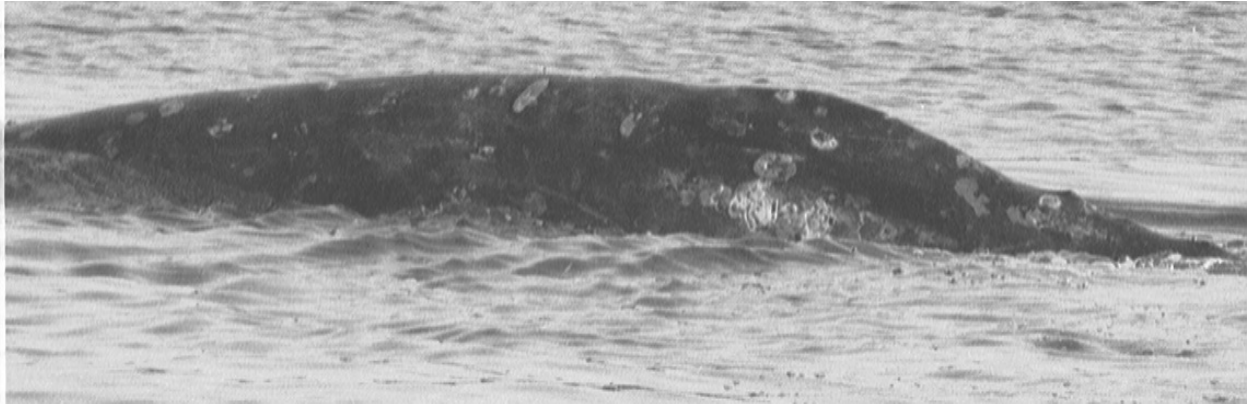
ER#15 was sighted in 1997 off Chito Beach on 6 September, off Rasmussen Creek on 20 September, and east of Waadah Island on 28 September. On 29 September 1997, it was sighted at Third Beach, Seal and Sail Rock, and off the Sail River mouth. On 30 September 1997, it was sighted again off Rasmussen Creek. In 1998, it was sighted off Tsusiat Falls on Vancouver Island on 1 July and off Greenbank on the northern Washington coast on 16 July. In 1999, it was sighted along Vancouver Island west of Pachena Point on 4 August and off Tsusiat Point on 14 August. In 2000, it was sighted along Vancouver Island at Bajo Reef on 19 August and at Perez Rocks on 20 August. On 6 July 2001, it was sighted west of the Klanawa River mouth on the southwest coast of Vancouver Island.

## GRAY WHALE No. 21



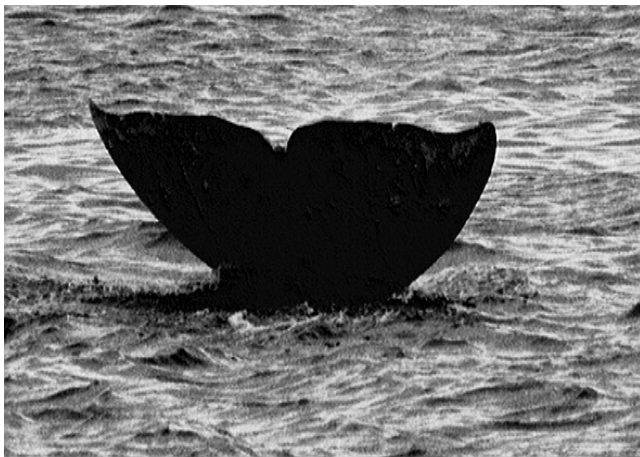
ER #21 was sighted on 21 May 1999 in Elger Bay, Camano Island and on 2 June 2000 between Gedney Island and the Everett jetty.

## GRAY WHALE No. 22



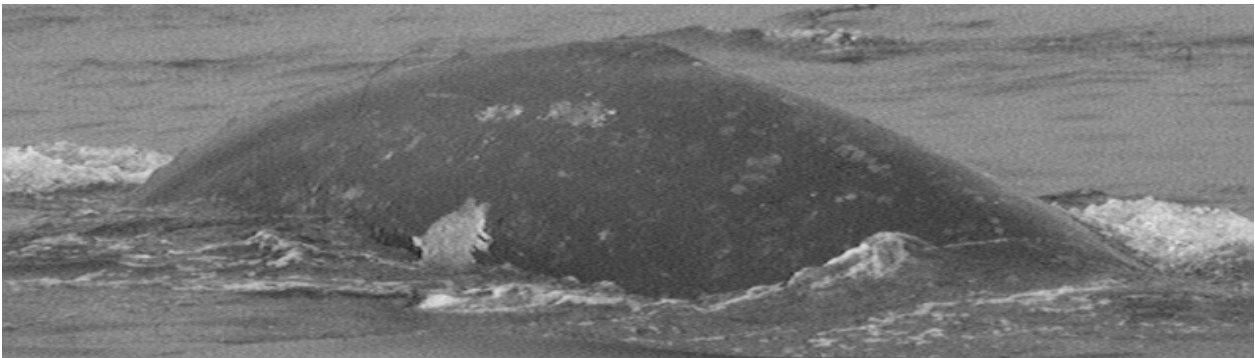
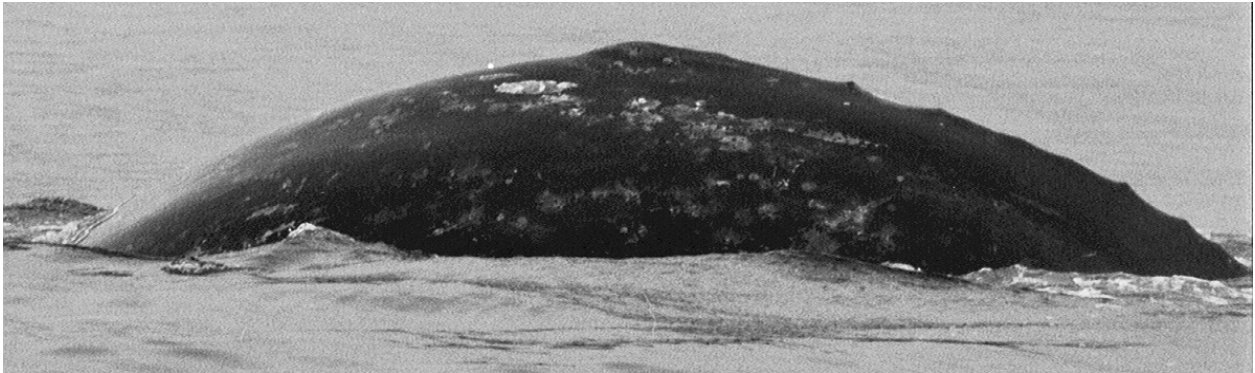
ER #22 was sighted on 21 May 1999 in Elger Bay, Camano Island, and twice on 2 June 2000 at the south tip of Camano Island and south of Langley on Whidbey Island.

## GRAY WHALE No. 30



ER #30 was sighted on 25 September 1998 off Jensen Creek in the Strait of Juan de Fuca on the Washington side. ER #30 was later sighted twice off Vancouver Island in 2000 at Estevan Point on 18 August and off Perez Rocks on 20 August.

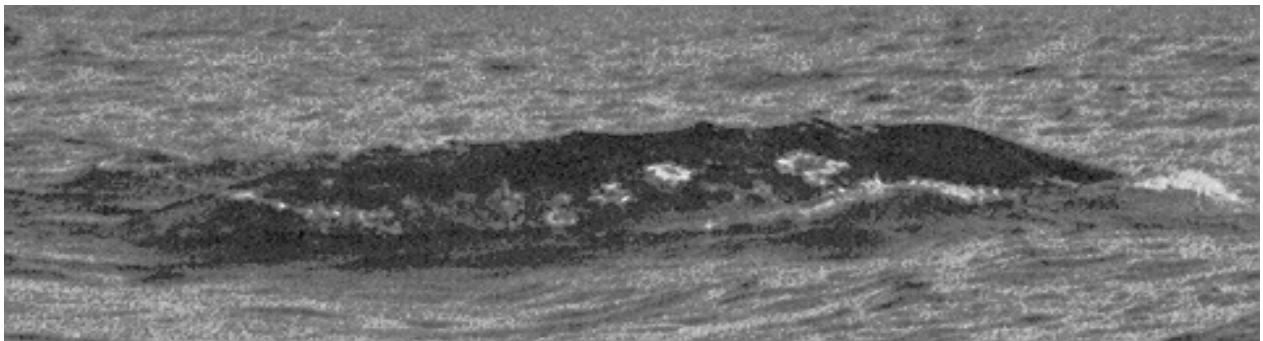
## GRAY WHALE NO. 32



ER#32 was sighted on 11 August 1999 in northern British Columbia south of Cape Caution and west of Wilkie Point.



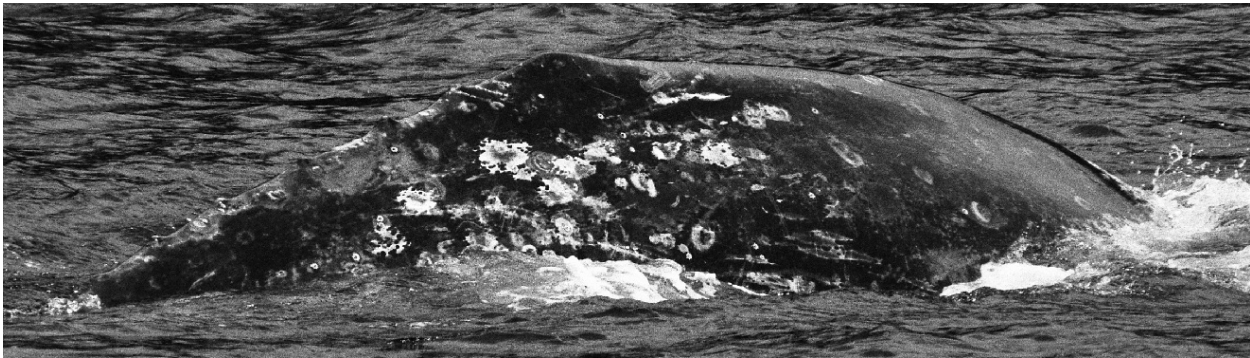
## GRAY WHALE No. 37



ER #37 was sighted east of Point San Juan in the Strait of Juan de Fuca off Vancouver Island on 27 July 1996, near Fuca Pillar on the northern Washington coast on 15 September 1998, and off western Vancouver Island north of Split Cape on 20 August 2000 and south of Perez Rocks on 10 August 2001.



## GRAY WHALE No. 41



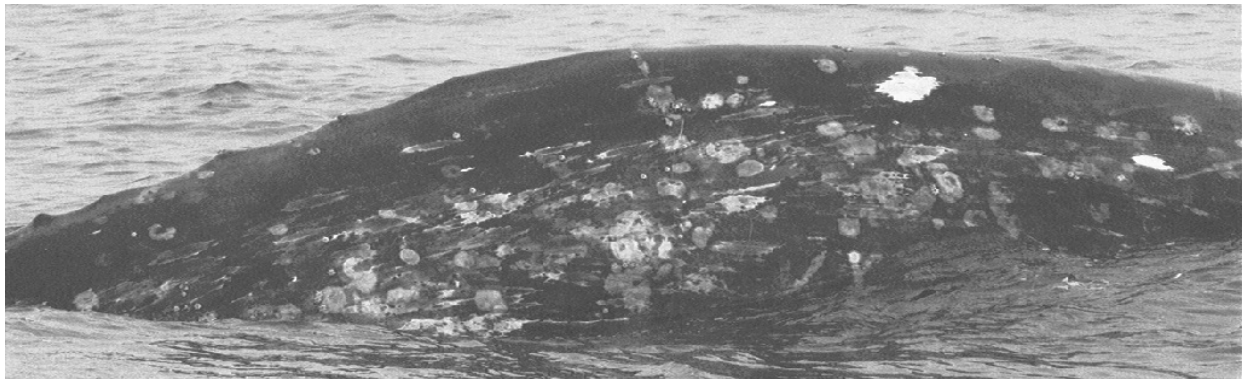
ER #41 has only been sighted off the west coast of Vancouver Island. It was sighted on 27 July 1996 east of Point San Juan in the Strait of Juan de Fuca, on 1 July 1998 off Tsusiat Falls, on 1 September 1998 east of Pachena, on 30 June 1999 at Nitinat Inlet, on 18 and 20 August 2000 at Perez Rocks, on 6 July 2001 at Pachena Point, and on 9 July 2001 at Tsusiat Falls.

## GRAY WHALE No. 42



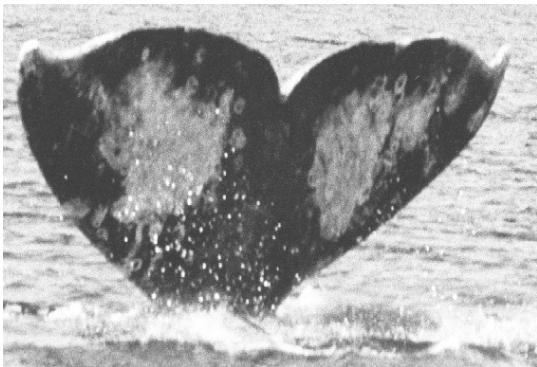
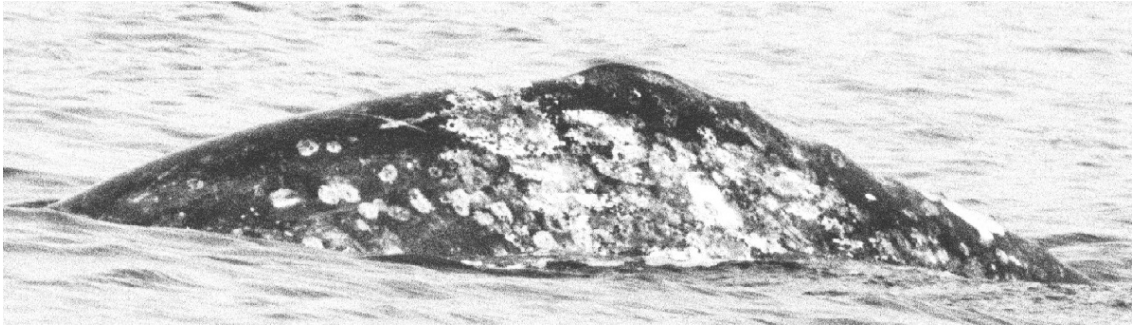
ER #42 was sighted at Seal and Sail Rocks on the Washington side of the Strait of Juan de Fuca on the 2<sup>nd</sup>, 14<sup>th</sup>, and 15<sup>th</sup> of October 1998. On 23 July 1999, it was sighted west of Nitinat Inlet and later off the Klanawa River on 4 August 1999. Also in 1999, it was off Bullman Beach on 26 August, off Snow Creek on 29 September, off Third Beach on 4 October, and around Sail Rock and the mouth of Sail River on the 13<sup>th</sup>, 14<sup>th</sup>, and 19<sup>th</sup> of October. ER #42 was sighted off Estevan Point on the 18<sup>th</sup> and 20<sup>th</sup> of August 2000. It was sighted in Pachena Bay on 28 June 2001 and east of Pachena Point on 9 July 2001.

## GRAY WHALE No. 43



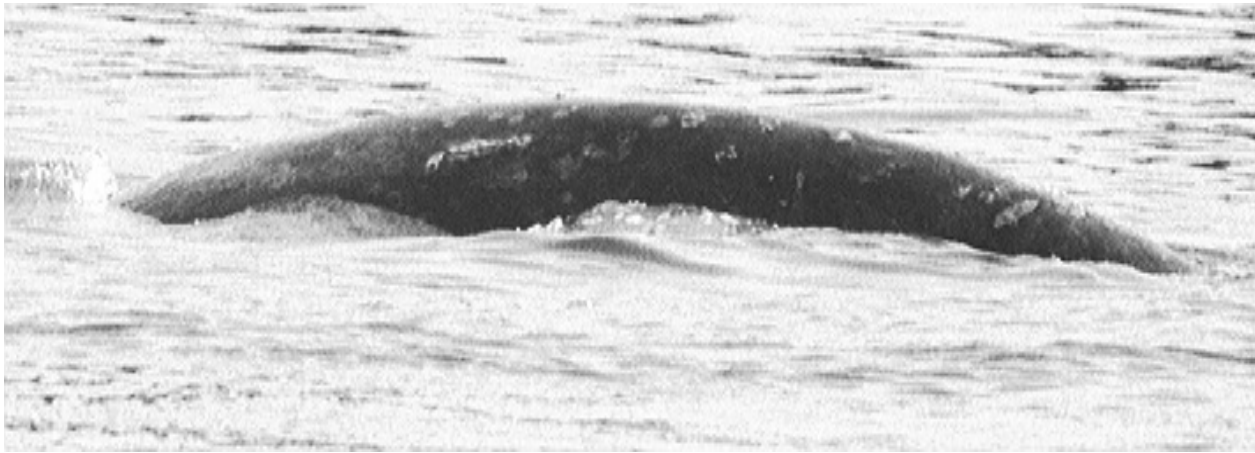
ER #43 was sighted off the northwest Washington coast on 2 September 1997 off Sand Point and on 24 July 1998 at Bodelteh. In 1999, it was sighted off the southwest coast of Vancouver Island on 23 July west of Nitinat Inlet and on 4 August west of the Klanawa River.

## GRAY WHALE No. 49



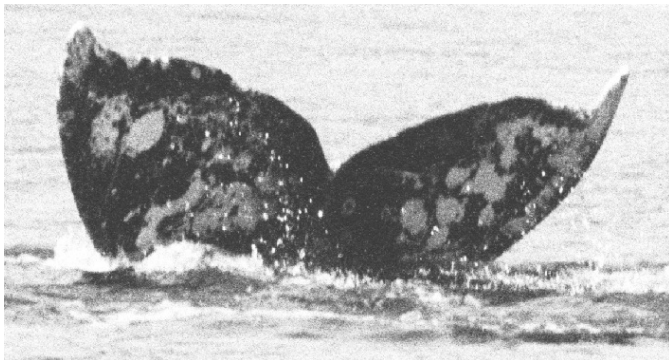
ER#49 was sighted on 22 March 2001 on the east side of Whidbey Island in Saratoga Passage in northern Puget Sound, Washington.

## GRAY WHALE No. 53



ER #53 was sighted at the southern tip of Camano Island on 2 June 2000.

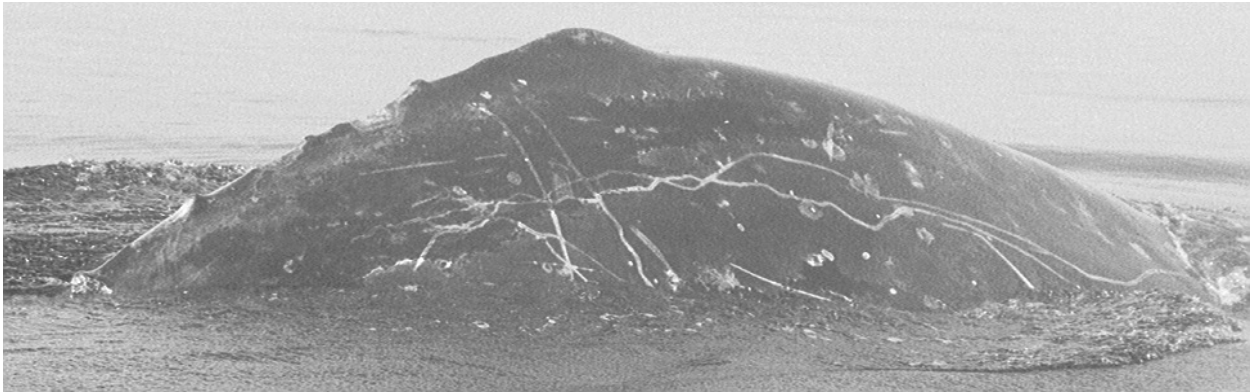
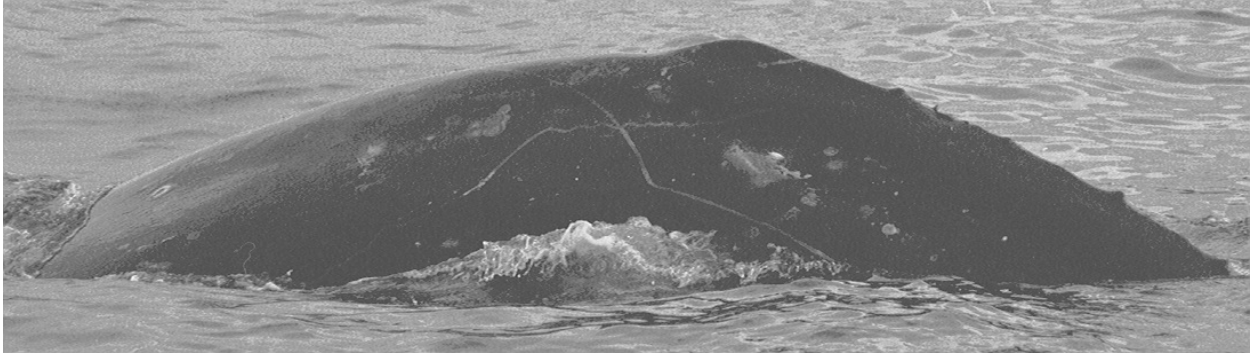
## GRAY WHALE No. 56



ER#56 was sighted on 22 March 2001 on the east side of Whidbey Island in Saratoga Passage in northern Puget Sound.

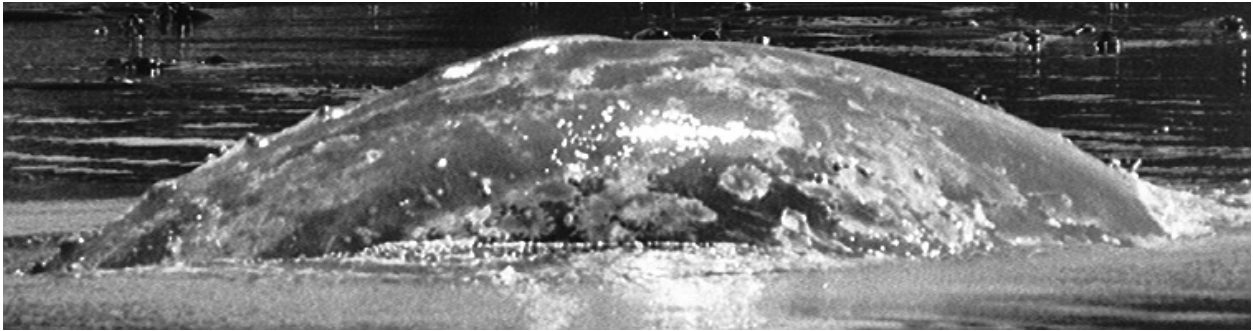


## GRAY WHALE No. 67



ER #67 has only been sighted in Washington waters. It was sighted off the northwestern coast of Washington around Ozette Island on 6 July, 29 July, and 3 August, 1997 and around Seal and Sail Rocks in the western Strait of Juan de Fuca on 16 July and 8 October, 1997. It was also sighted near Guano Rock, Cape Alava on the Washington coast on 23 November, 1999.

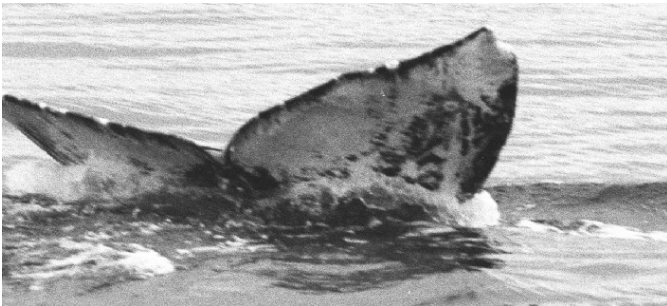
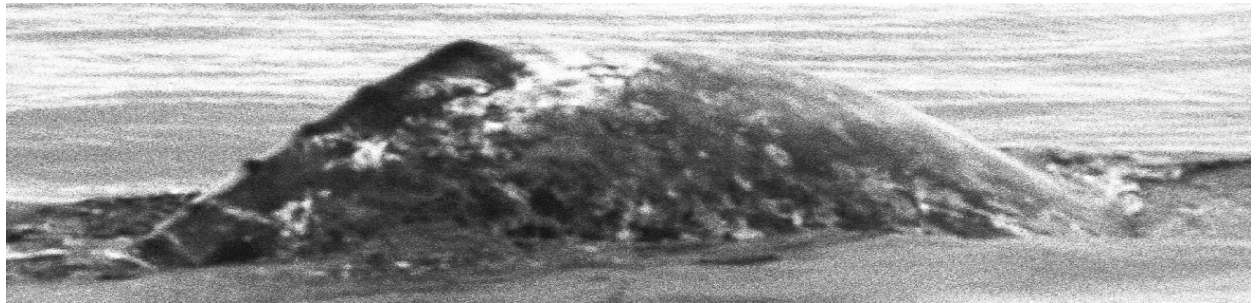
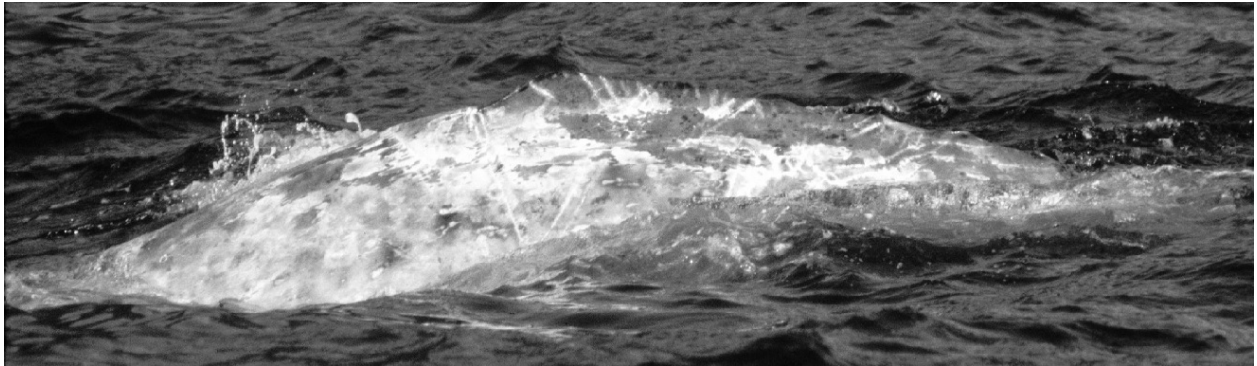
## GRAY WHALE No. 68



ER #68 was sighted in 1996 on the northwestern Washington coast between Portage Head and Green Bank on the 13<sup>th</sup>, 23<sup>rd</sup>, and 27<sup>th</sup> of August and on the 12<sup>th</sup> and 26<sup>th</sup> of September. In 1997, ER #68 was sighted in the western Strait of Juan de Fuca outside the Neah Bay jetty on the 1<sup>st</sup> and 3<sup>rd</sup> of August.

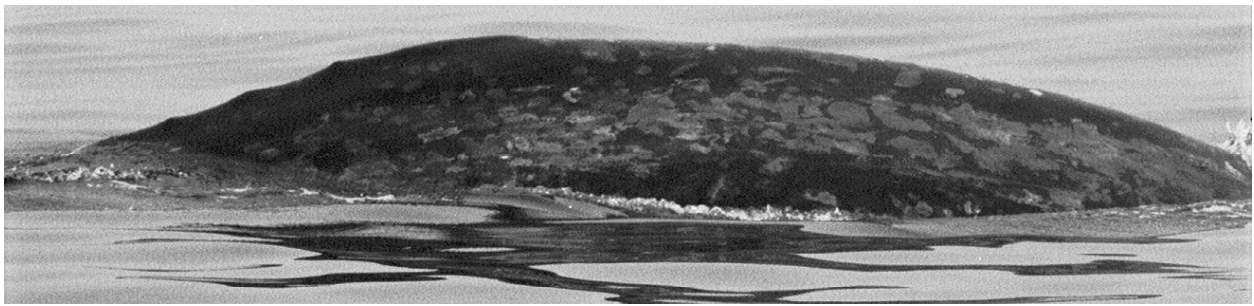


## GRAY WHALE No. 76



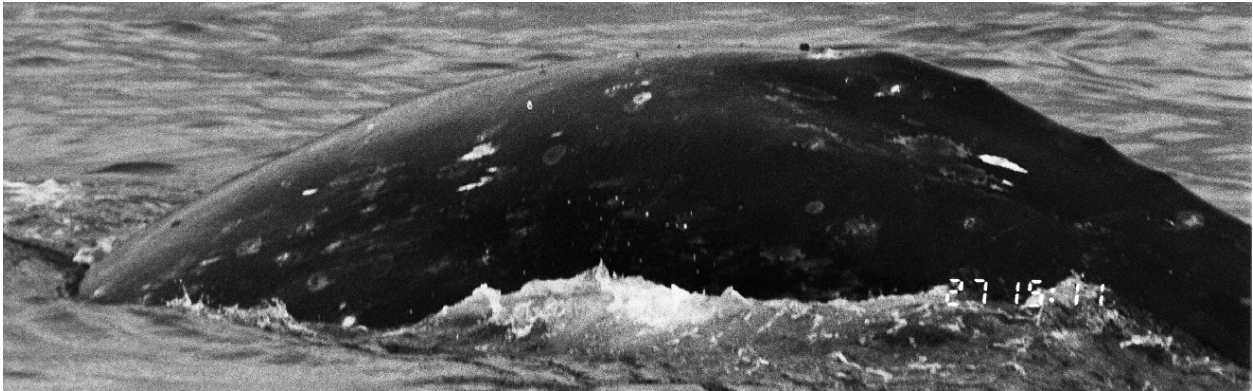
ER #76 was sighted northwest of George Fraser Island in Barkley Sound off Vancouver Island on 7 July 2001. On 9 August 2001, it was sighted off Skagway Rocks on the northern Washington coast. It was sighted again off Skagway Rocks and Waatch Point on 26 July 2003.

## GRAY WHALE No. 79



ER #79 was sighted west of Tsusiat Falls off southwestern Vancouver Island on 26 August 1998 and off the northwestern Washington coast at Skagway on 29 June 1999.

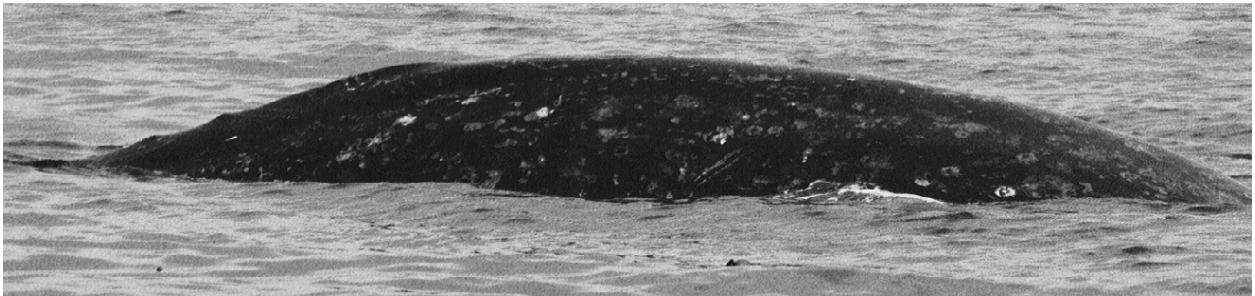
## GRAY WHALE No. 80



ER #80 was sighted in 1996 off the northwestern Washington coast around Portage Head and Makah Bay on the 16<sup>th</sup>, 23<sup>rd</sup>, and 27<sup>th</sup> of August and on 18 September. On 26 September 1996, it was sighted off Koitlah Point in the western Strait of Juan de Fuca. In 1998, all sightings were off southwest Vancouver Island at Tsusiat Falls on 1 July, west of Carmanah on 25 August, Bonilla Point on 28 August, west of Carmanah Point on 4 September, and east of Bonilla on 22 September. In 1999, it was sighted west of Nitinat Inlet on Vancouver Island on 23 July and off Bodelteh on the northern Washington coast on 14 September.

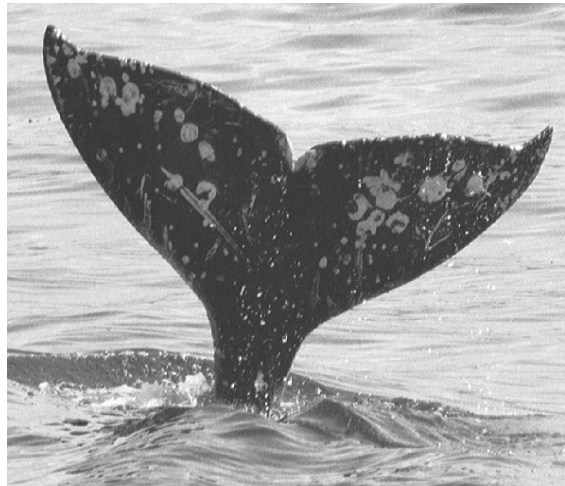
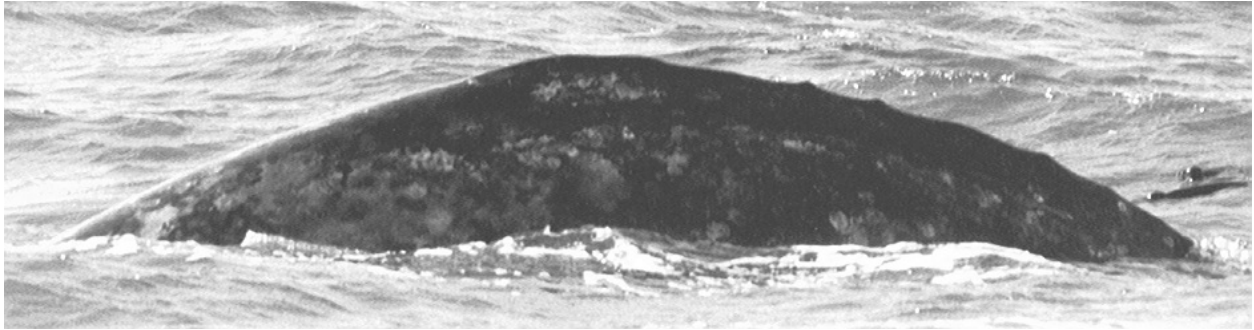


## GRAY WHALE No. 81



ER #81 was sighted off Slant Rock in the western Strait of Juan de Fuca on 23 September 1997 and off Fuca Pillar on the northwest Washington coast on 15 September 1998. It was sighted to the north of Cape Alava on the northern Washington coast on 29 September 1999. In 2000, it was sighted between Split Cape and Perez Rocks on the Hesquiat Peninsula on Vancouver Island on 20 August. On 9 July 2001, it was sighted east of Nitinat Inlet off Vancouver Island.

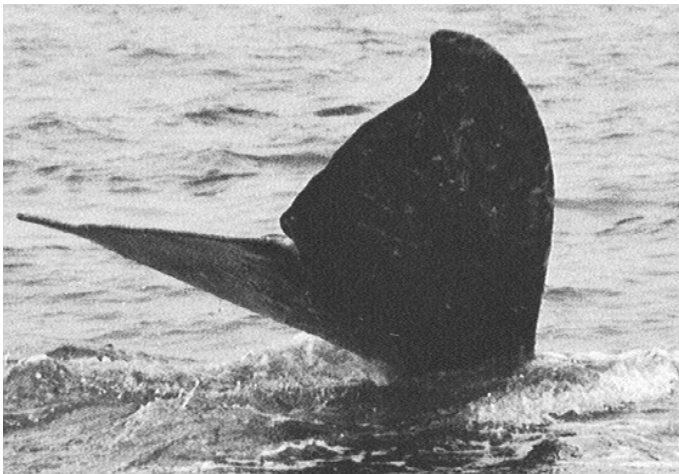
## GRAY WHALE No. 83



ER #83 was sighted on the northern Washington coast around Father and Son Rock on 23 July 1996 and north of Ozette Island on 12 July 1997. It was sighted north of Cape Alava on 16 August 1998. In 2000, it was sighted off Perez Rocks on the west coast of Vancouver Island on 20 August and southwest of Ozette Island off the northern Washington coast on 31 October.



## GRAY WHALE No. 84



ER #84 was sighted off Tsusiat Falls on the southwest coast of Vancouver Island on 1 July 1998. In 2000, it was sighted in Pachena Bay on 17 August and 23 September and at Sykes Reef, Barkley Sound on 20 September. It was sighted west of the Klanawa River mouth on Vancouver Island on 6 July 2001.

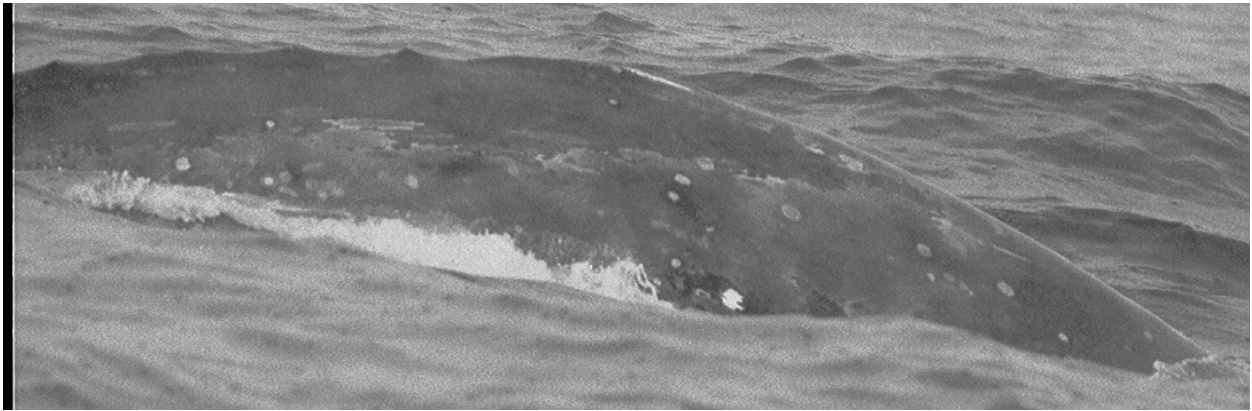
## GRAY WHALE No. 85



ER #85 was sighted off Carmanah Point, southwest Vancouver Island on 1 July 1998. It was sighted later that month off Green Bank off the northern Washington coast on the 29<sup>th</sup> and 30<sup>th</sup>.

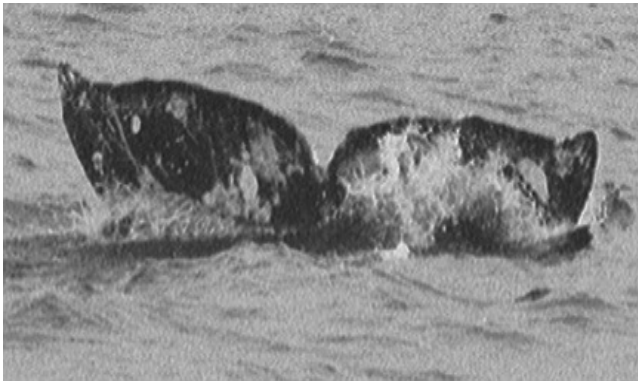
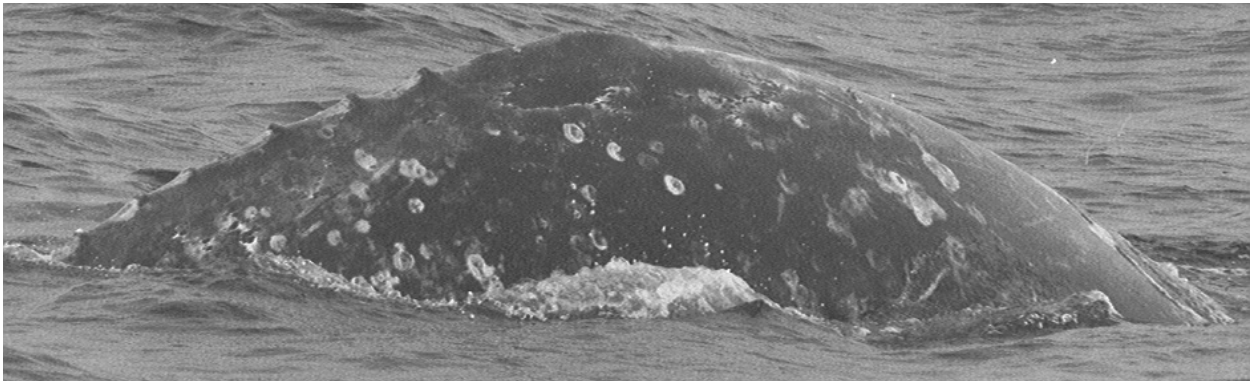


GRAY WHALE No. 86



ER #86 was sighted off Bajo Reef off Nootka Island on the west coast of Vancouver Island on 19 August 2000.

## GRAY WHALE No. 87



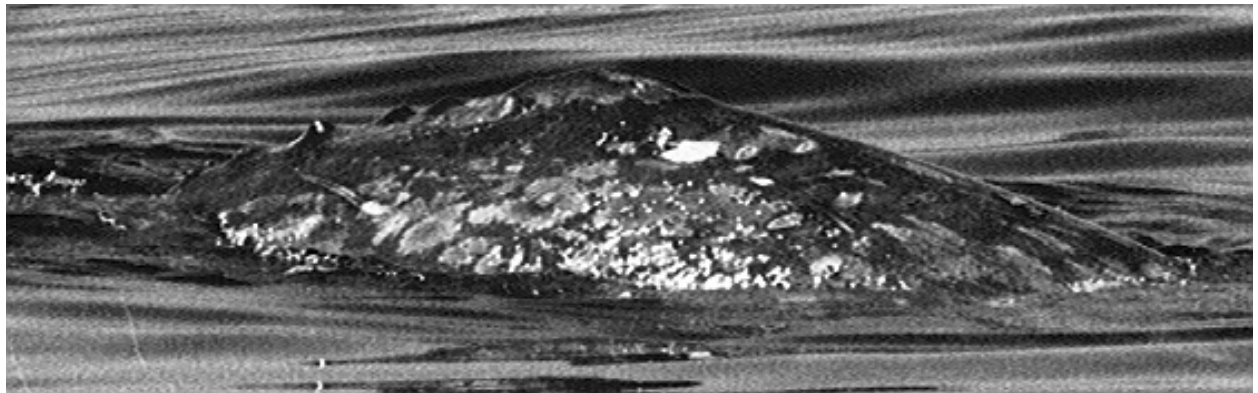
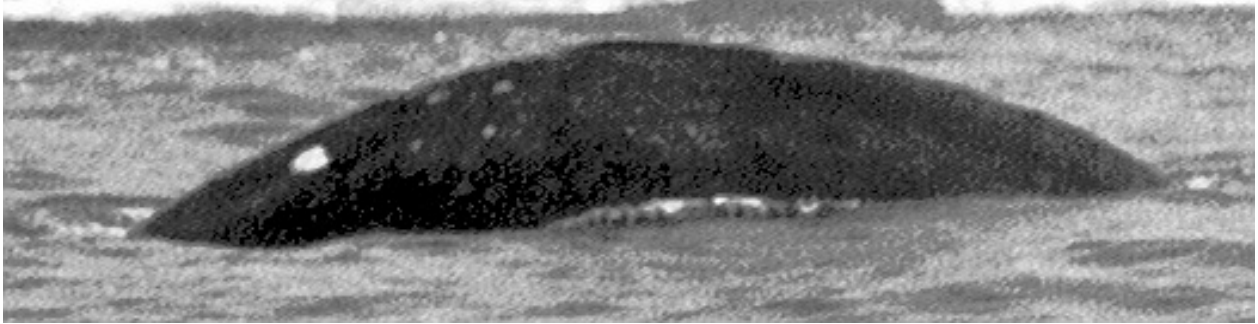
ER #87 was sighted off Portage Head on the northern Washington coast on 18 September 1996. It was sighted off the Darling and Klanawa Rivers off southwestern Vancouver Island on 23 September 2000. It was sighted again off the Klanawa River mouth on 28 June 2001. On 10 August 2001, it was sighted south of Perez Rocks off Hesquiat Peninsula on Vancouver Island.

## GRAY WHALE No. 89



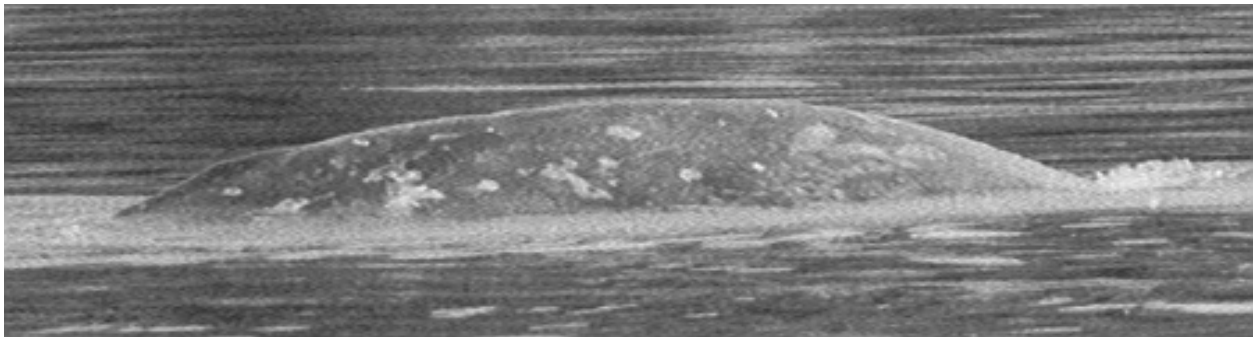
ER #89 was sighted off Cape Beale, southwest Vancouver Island on 23 September 2000.

## GRAY WHALE No. 91



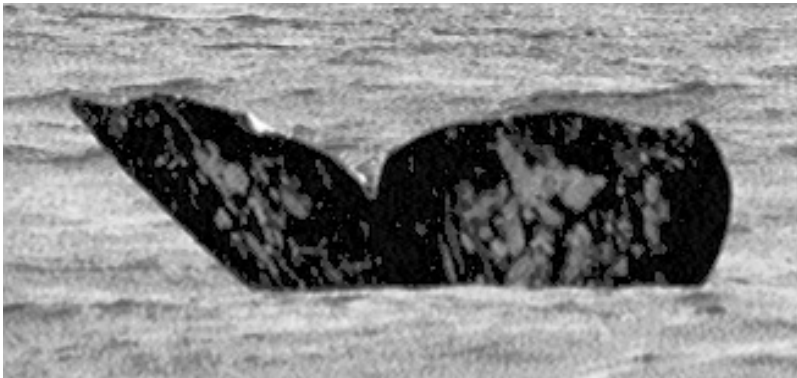
ER #91 was sighted twice in 1998 off the northern Washington coast at Waatch Point on 9 July and off Shipwreck Rock (Shi Shi Beach) on 31 August.

## GRAY WHALE No. 92



ER #92 was sighted east of Nitinat Inlet off Vancouver Island on 27 July 1996. In 1997, it was sighted around Bodelteh, Cape Alava on the northern Washington coast on 2 September. In 1998, it was off Vancouver Island at Carmanah Point on 1 July and east of Nitinat on 3 July. On 30 July 1998, it was sighted off White Rock on the northern Washington coast. The last sighting in 1998 was east of Bonilla, Vancouver Island on 22 September. On 30 June 1999, it was sighted west of Nitinat. It was sighted north of Perez Rocks on 22 September 2000. In 2001, it was sighted west of the Klanawa River on 9 July and between Great Bear and Alley Rocks in Barkley Sound on 9 August.

## GRAY WHALE No. 93



ER #93 was sighted on 23 September 1997 east of the Darling River off the southwest coast of Vancouver Island. On 21 July 1998, it was sighted near the same area between Tsusiat Falls and Pachena Point. On 24 August 1998, it was sighted off the northern Washington coast at Yellow Banks. In 2000, it was sighted off the Hesquiat Peninsula at Matlahaw Point on 18 August and at Estevan Point on 20 August. On 23 September 2000, it was sighted off the Darling River. In 2001, it was sighted off southwestern Vancouver Island at Cape Beale on 28 June and off the Darling River on 9 July.



## GRAY WHALE No. 94



ER # 94 was sighted on Vancouver Island on 17 August 2000 northwest of Pachena Point, on 7 July 2001 northwest of George Fraser Island, and on 10 August 2001 west of Estevan Point.

## GRAY WHALE No. 101



ER #101 was sighted off the southwest coast of Vancouver Island in 1998 at Tsusiat Falls on 1 July, east of Nitinat Inlet on 3 July, and west of Carmanah Point on 25 August. On 25 September 1998, it was sighted in Washington waters off Jensen Creek in the western Strait of Juan de Fuca. In 2000, it was sighted off the Hesquiat Peninsula of Vancouver Island off Estevan Point on 18 August and off Perez Rocks on 20 August.

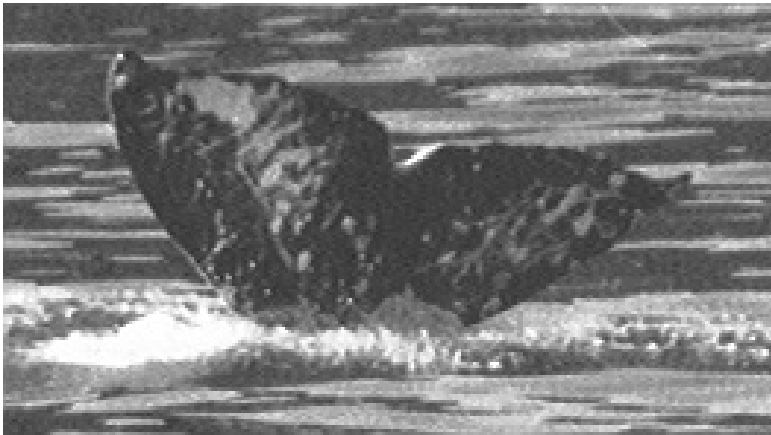
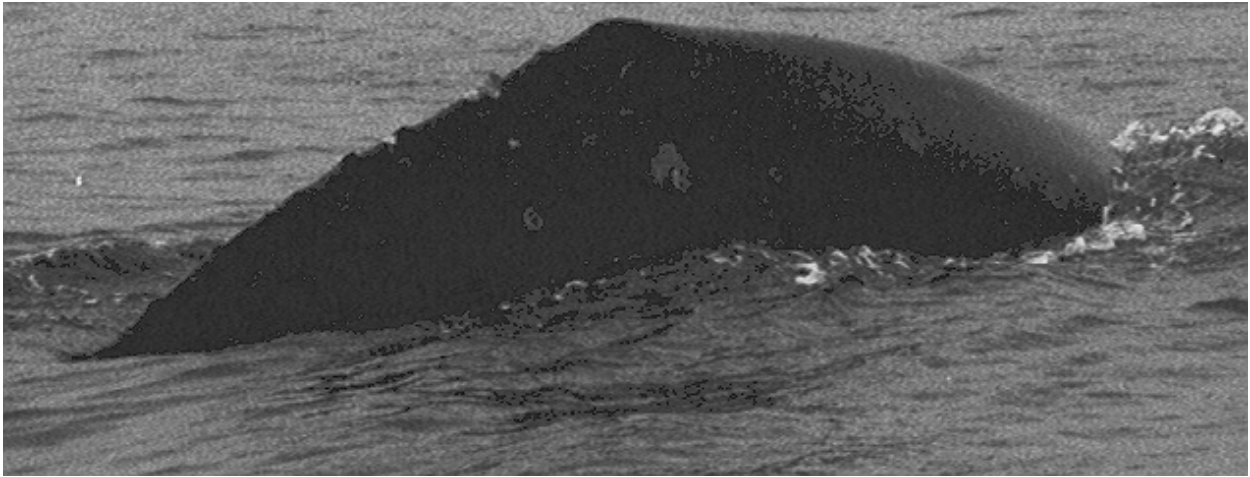


## GRAY WHALE No. 105



ER #105 was sighted at Cape Beale on the southwest coast of Vancouver Island on 23 September 2000. It was sighted again nearby at Pachena Point on 28 June 2001.

## GRAY WHALE No. 107

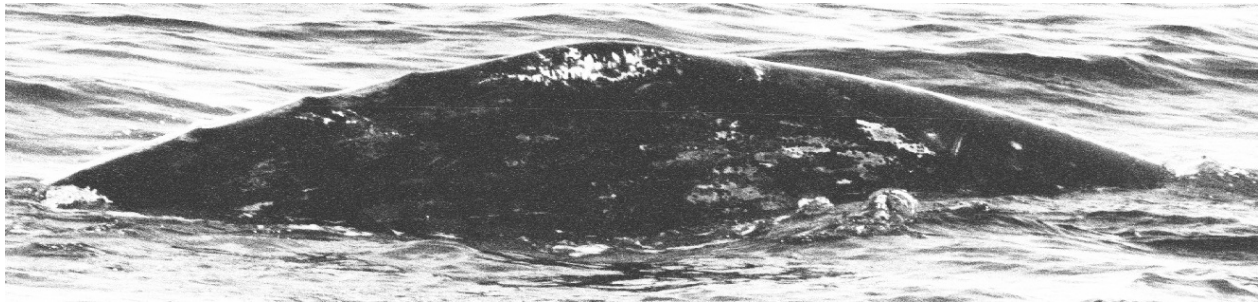


ER # 107 was sighted east of Nitinat Inlet on Vancouver Island on 11 July 1997. It was later sighted in Makah Bay on the northern Washington coast on 22 August 1997. In 1998, it was sighted off Waatch Point on the

Washington coast on 6 June. On 23 September 2000, it was sighted west of Tsusiat Falls on Vancouver Island. In 2001, it was sighted in Pachena Bay, Vancouver Island on 28 June and off Strawberry Rock on the northern Washington coast on 31 July. In 2002, it was sighted at Point of the Arches on the Washington coast on 9 October. In 2003, it was sighted off Waatch Point near Makah Bay on 26 July.

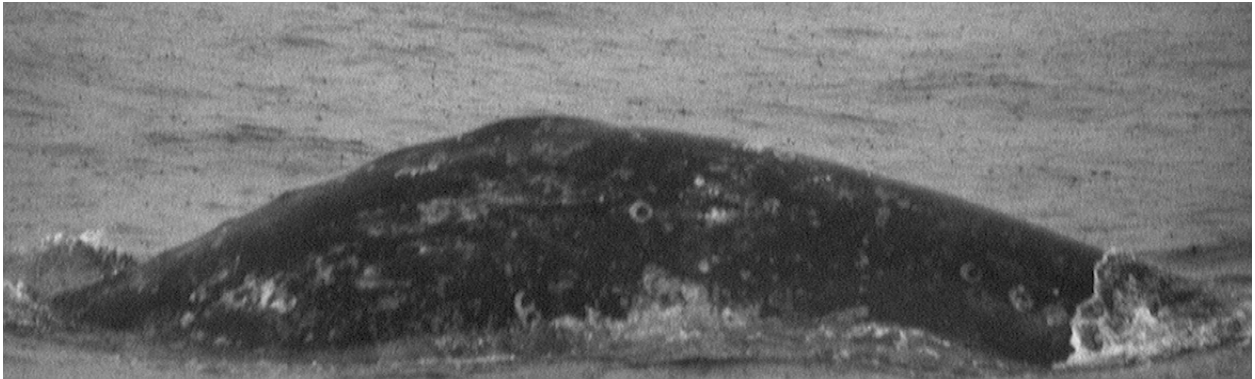
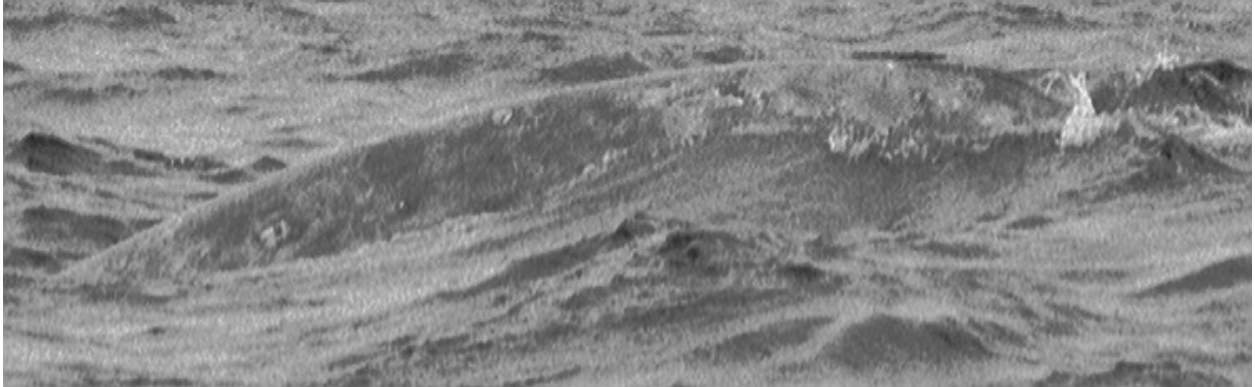


GRAY WHALE No. 120



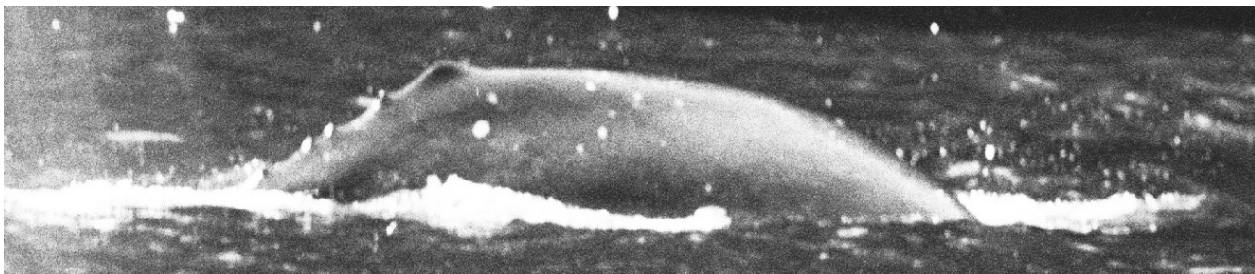
ER#120 was sighted on 13 June 2001 south of Sand Point off the northern Washington coast.

## GRAY WHALE No. 123



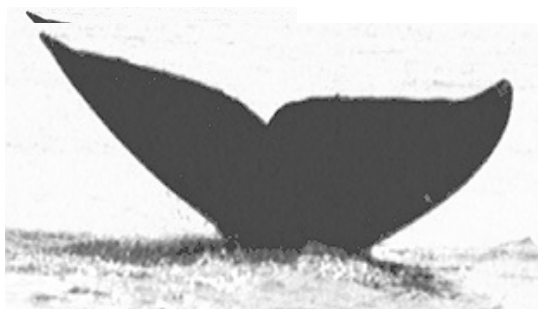
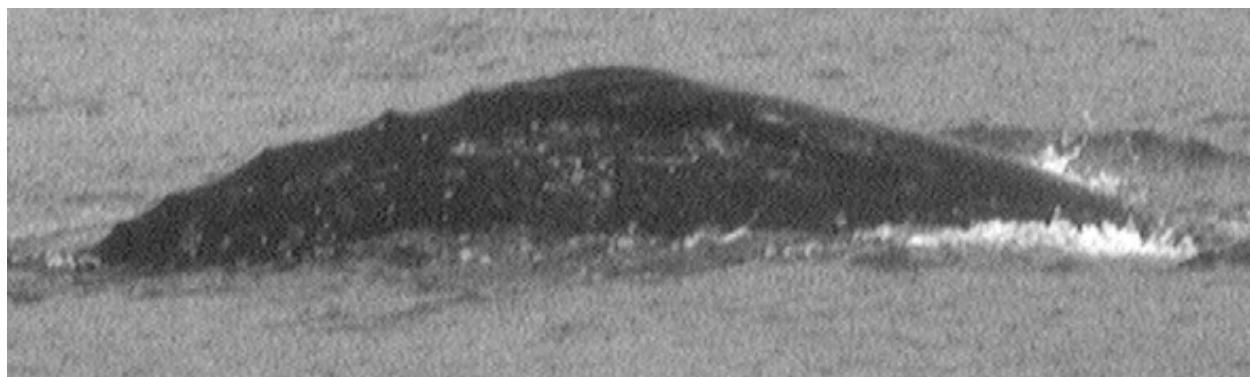
ER #123 was sighted southeast of Nitinat Inlet on 3 July 1998. In 1999, it was sighted west of Nitinat on 23 July. In 2000, it was sighted off Perez Rocks on the 18<sup>th</sup> and 20<sup>th</sup> of August.

## GRAY WHALE No. 127



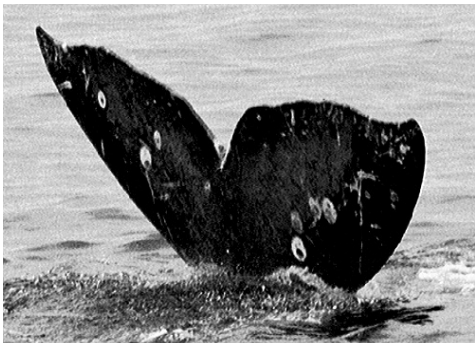
ER #127 was sighted in 1997 in the western Strait of Juan de Fuca in Washington waters off Chibodehl Rocks on 3 August, west of Slant Rock on 4 August, and east of Mushroom Rock on 11 August. In 2001, it was sighted west of the Klanawa River off southwest Vancouver Island on 6 July, east of Nitinat Inlet on 9 July, and south of Yellow Bank off the Washington coast on July 27.

## GRAY WHALE NO. 130



ER #130 was sighted southeast of Nitinat Inlet on Vancouver Island on 3 July 1998. In 2000, it was sighted off Vancouver Island west of Wouwer Island, Barkley Sound on 21 August and at Cape Beale on 23 September. In 2001, it was sighted off Cape Beale on 9 July and between Great Bear and Alley Rocks in Barkley Sound on 9 August. Also in 2001, it was sighted on the Washington coast off Strawberry Rock on 30 August and off Portage Head on 6 September.

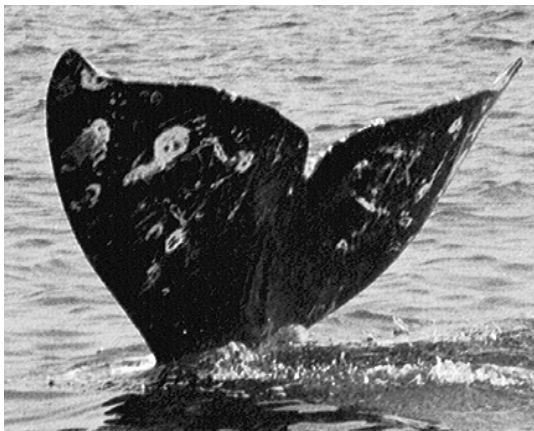
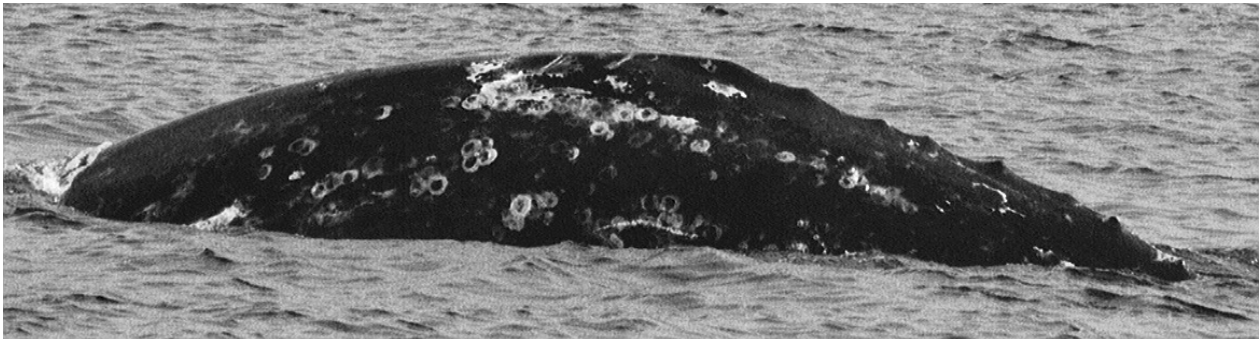
## GRAY WHALE NO. 135



ER #135 has only been sighted off Vancouver Island. On 1 July 1998, it was sighted off Tsusiat Falls. In 1999, it was sighted off Bajo Reef on 8 August, off Bajo Point on 12 August, off Split Cape on 11 September, and off Escalante Rocks on 12 September. In 2001, it was sighted off the mouth of the Klanawa River on 28 June and off Tsusiat Falls on 6 July.

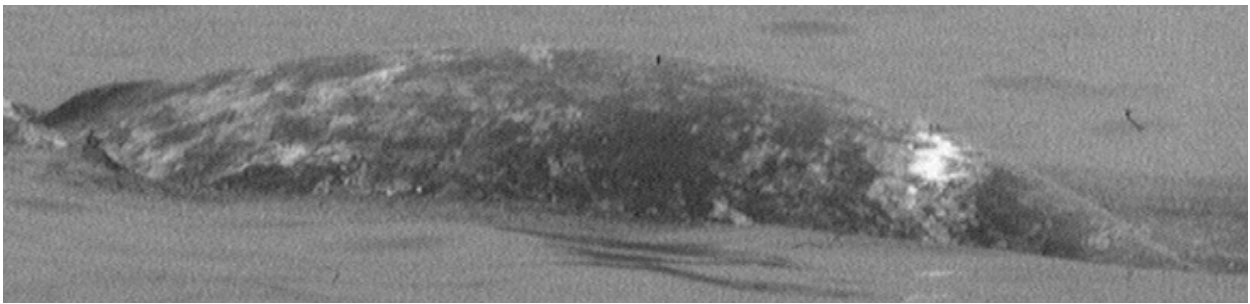
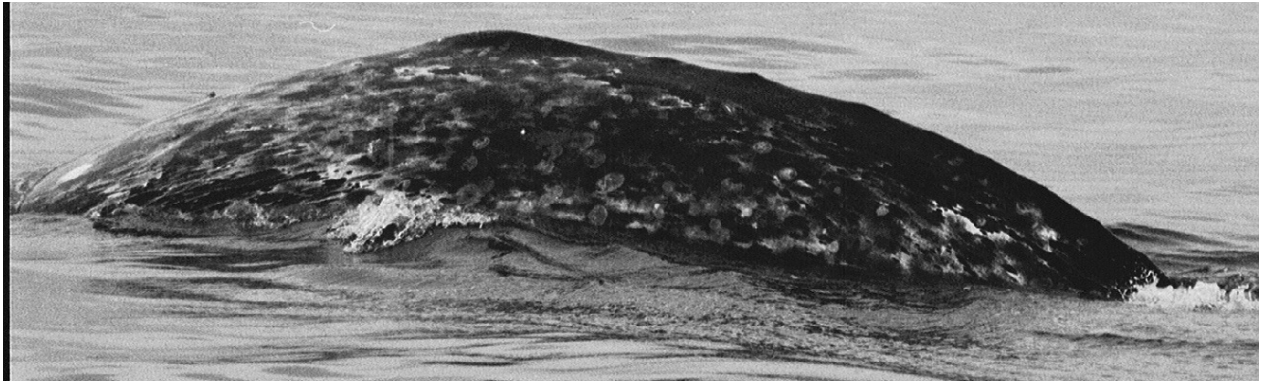


## GRAY WHALE NO. 136



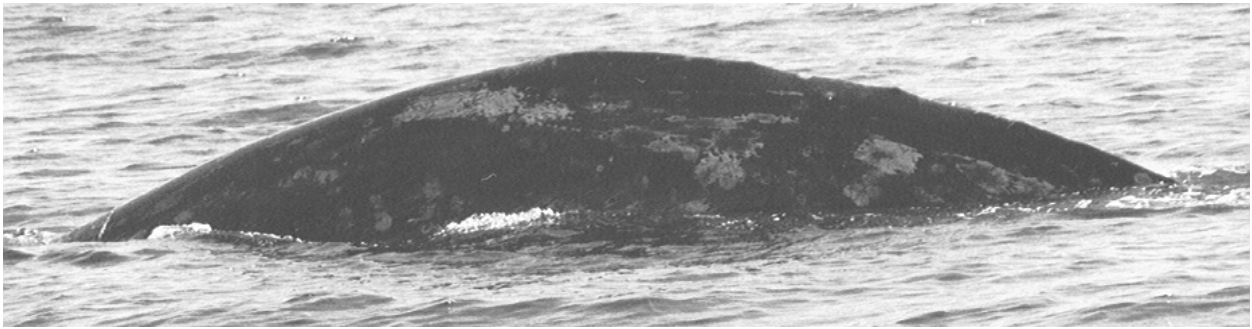
ER#136 has only been sighted along Vancouver Island. On 8 August 1999, it was sighted near Bajo Point. In 2000, it was sighted at Bajo Reef on 19 August and at Perez Rocks on 20 August. On 9 August 2001, it was sighted between Great Bear and Alley Rocks in Barkley Sound.

## GRAY WHALE NO. 138



ER#138 was sighted only off Vancouver Island. On 22 September 1998, it was sighted west of the Klanawa River. On 11 August 1999, it was sighted west of Wilkie Point and south of Cape Caution in northern British Columbia. On 9 July 2001, it was sighted west of the Klanawa River again.

## GRAY WHALE NO. 140



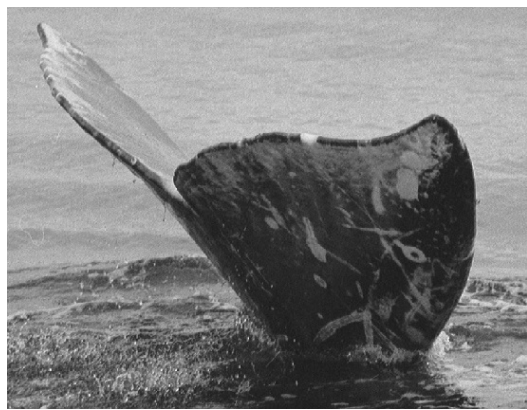
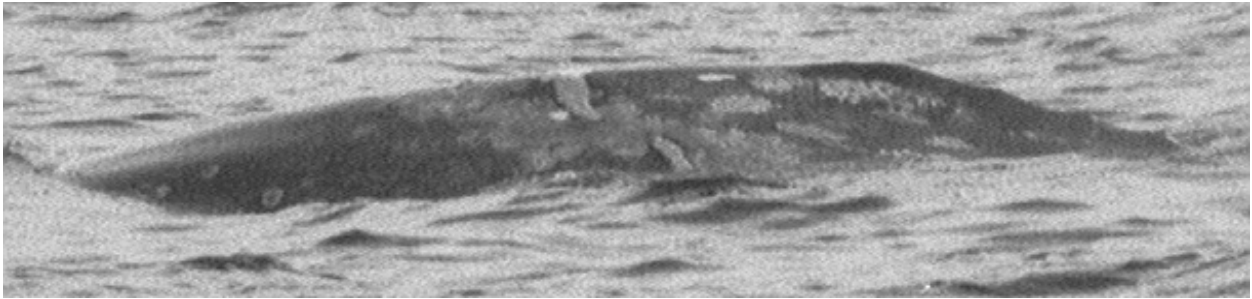
ER#140 was sighted off Warmhouse Beach in the western Strait of Juan de Fuca on 17 August 1998. In 2000, it was sighted along Vancouver Island off Split Cape on 20 August and off Pachena Point on 23 August. On 10 August 2001, it was sighted west of Perez Rocks along the Vancouver Island coast.

## GRAY WHALE NO. 141



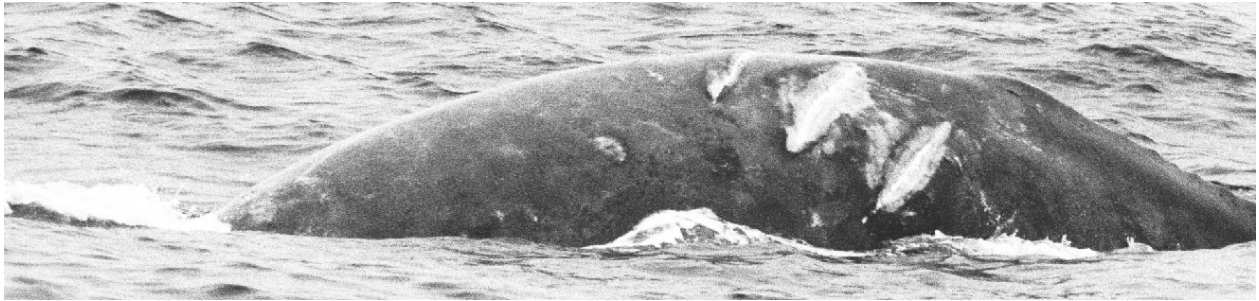
ER#141 was sighted on 28 August 1997 off Sand Point on the northern Washington coast. On 1 July 1998, it was sighted off Tsusiat Falls on southern Vancouver Island. In 1999, it was sighted along Vancouver Island at Perez Rocks on 7 August, off Matlahaw Point on 13 August, and north of Split Cape on 12 September. On 29 September 1999, it was sighted off Guano Rock on the northern Washington coast.

## GRAY WHALE NO. 143



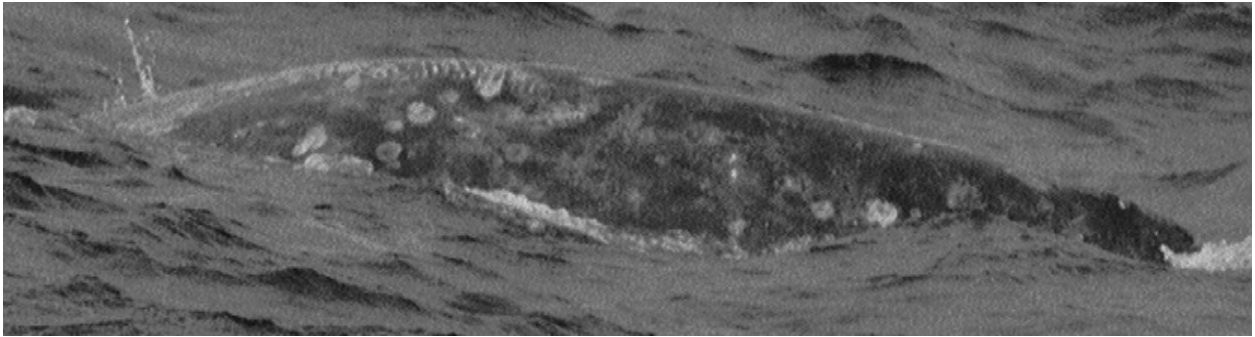
ER#143 was sighted only along the Vancouver Island coast. In 1999, it was sighted west of the Klanawa River on 30 June and off Bajo Point and Bajo Reef on 8 August and 12 August. It was also sighted off Bajo Reef on 19 August 2000. On 9 August 2001, it was sighted off Starlight Reef in Barkley Sound.

GRAY WHALE No. 144



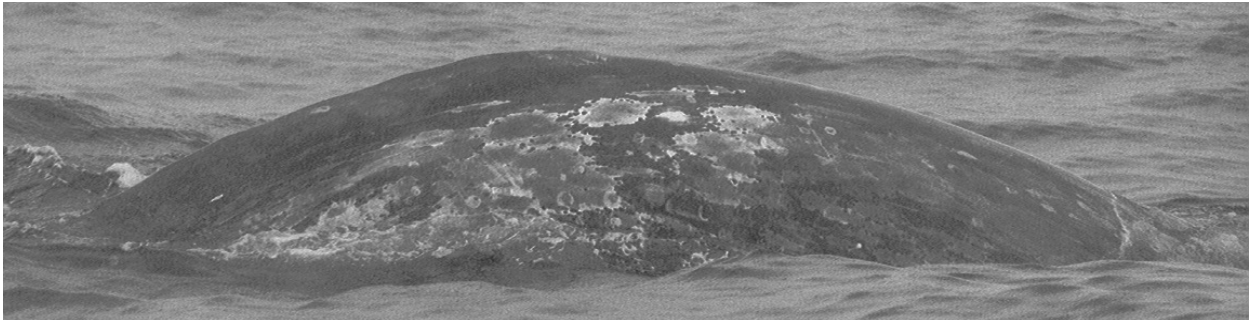
ER#144 was sighted off western Vancouver Island on 13 August 1999 north of Perez Rocks and on 11 August 2001 northwest of Bajo Point .

## GRAY WHALE NO. 145



ER#145 was sighted off Portage Head on the northern Washington coast on 26 September 1996. On 18 August 2000, it was sighted off Perez Rocks on the Vancouver Island coast.

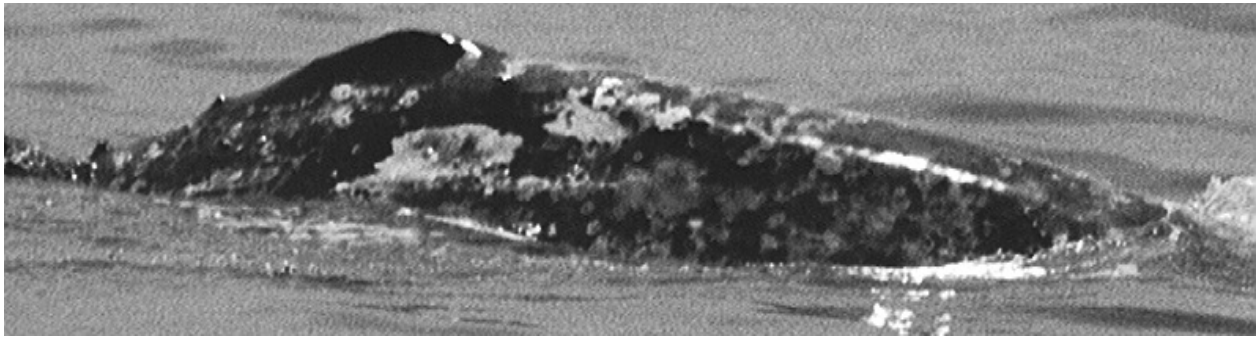
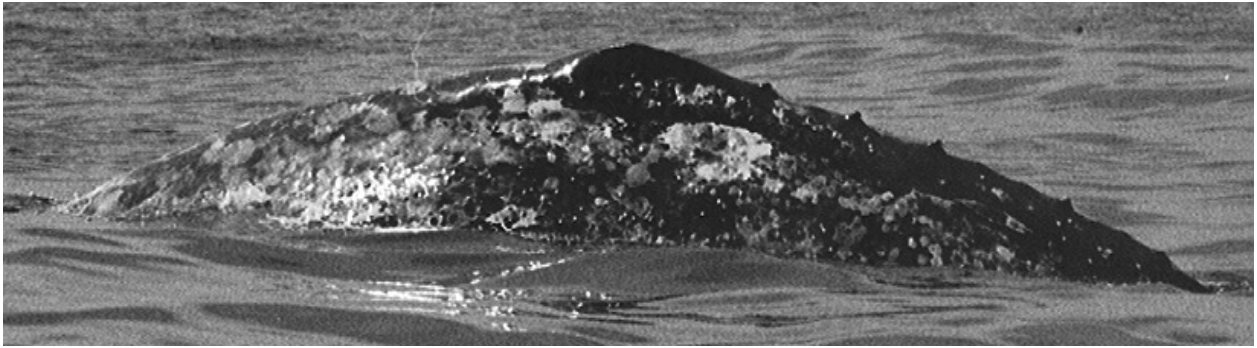
## GRAY WHALE NO. 149



ER#149 was sighted only off Vancouver Island. On 19 August 2000, it was sighted southwest of Inner Bajo Reef. In 2001, it was sighted south of Estevan Point on 8 August and northwest of Amphitrite Point on 9 August.

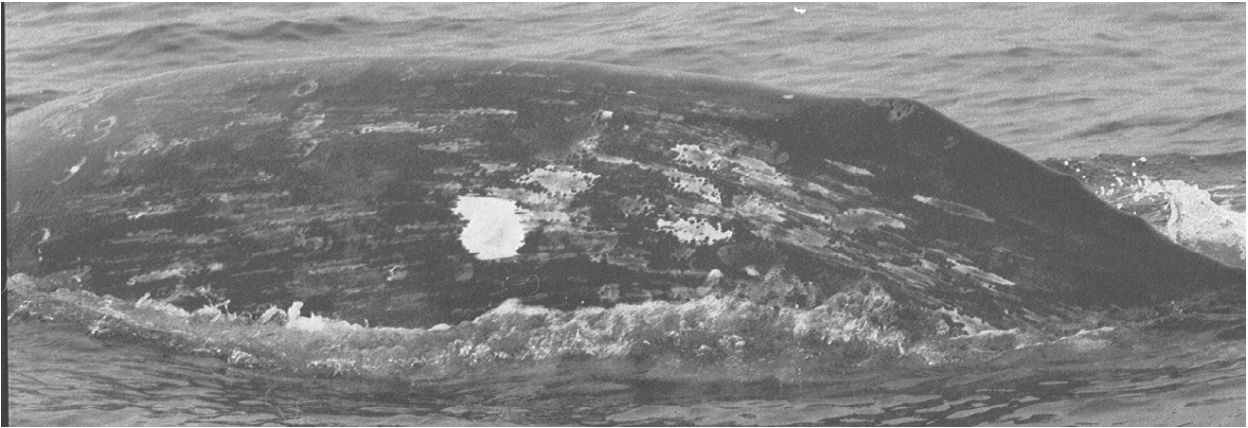


## GRAY WHALE NO. 150



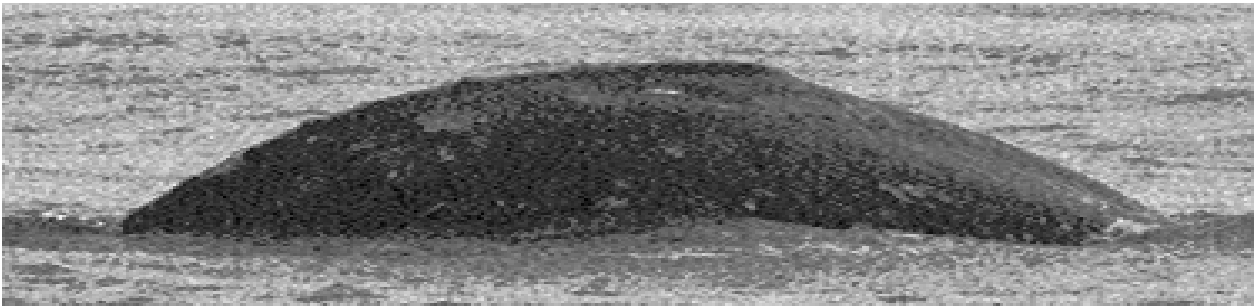
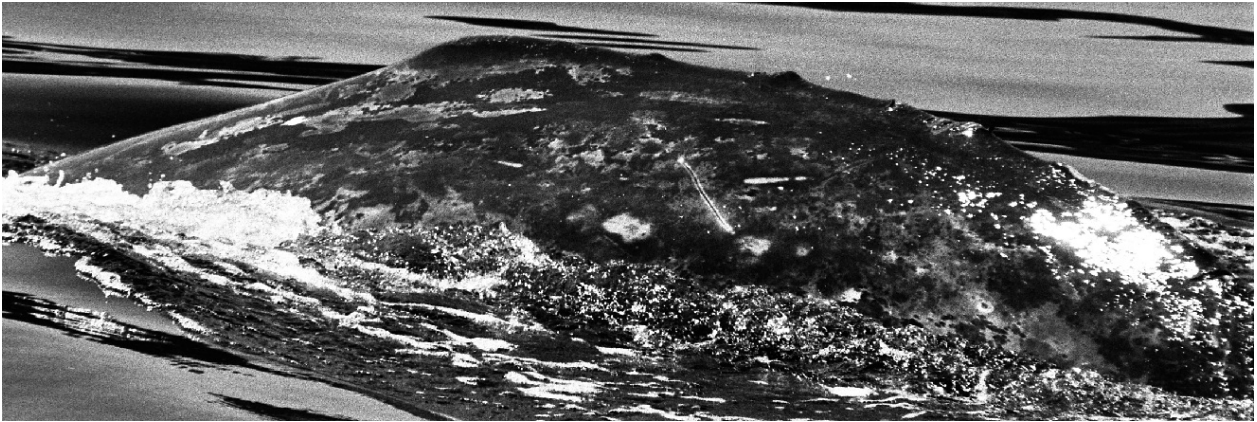
ER#150 was sighted only in 1998 off the southwest Vancouver Island coast. It was sighted at Carmanah Point on 1 July and east of Bonilla Point on 22 September.

## GRAY WHALE NO. 153



ER#153 was sighted on 10 August 1999 southeast of Christensen Point at the northwest end of Vancouver Island.

## GRAY WHALE NO. 166



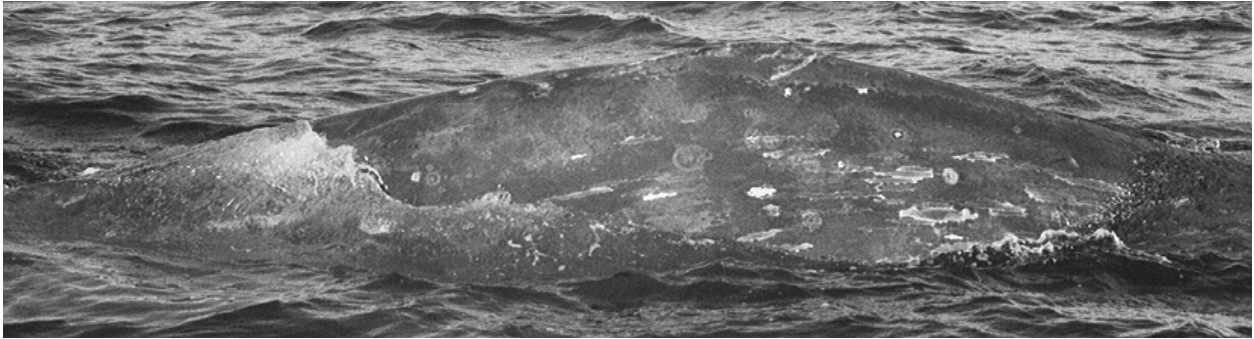
ER#166 was sighted on 24 July 1996 in the western Strait of Juan de Fuca east of Eagle Bay and off Sekiu. In 1997, it was sighted on the northern Washington coast at Point of the Arches on 12 July, at Greenbank on 28 August, and at south Bodelteh on 2 September. On 6 September, it was sighted in the western Strait of Juan de Fuca off the Sail River and later off Chito Beach. In 1998, it was sighted along the northern Washington coast off Cannonball Beach on 30 July and off east Bodelteh on 1 September. On 4 August 1999, it was sighted from Tsusiat Point to the Darling River on the southwest coast of Vancouver Island. In 2001, it was sighted along the southwest coast of Vancouver Island at Pachena Bay on 28 June, west of the mouth of the Klanawa River on 6 July, and between the Darling and Klanawa Rivers on 9 August. Also in 2001, it was sighted along the northern Washington coast at Strawberry Rock on 30 August and on the north side of Bodelteh on 6 September.

## GRAY WHALE No. 169



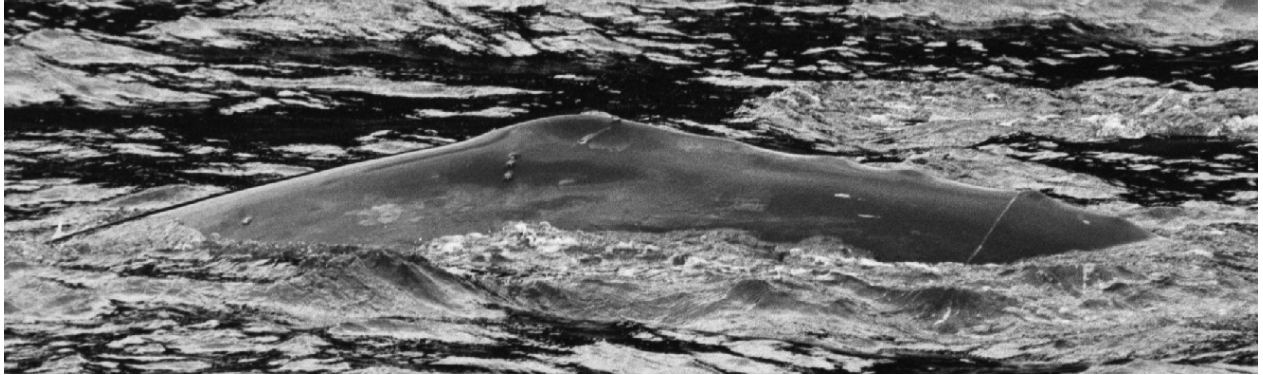
ER#169 was sighted in 2001 off the northern Washington coast southeast of Strawberry Rock outside Makah Bay on 30 August and off Portage Head on 6 September.

## GRAY WHALE NO. 174



ER#174 has only been sighted off the northern Washington coast. On 28 August 1996, it was sighted off Hand Rock. In 1997, it was sighted at Sand Point, south of Cape Alava, on 22 August, 28 August, and on 2 September.

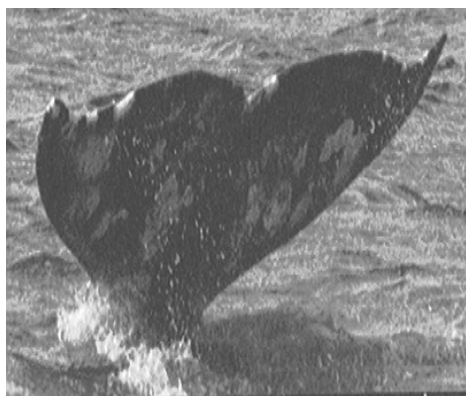
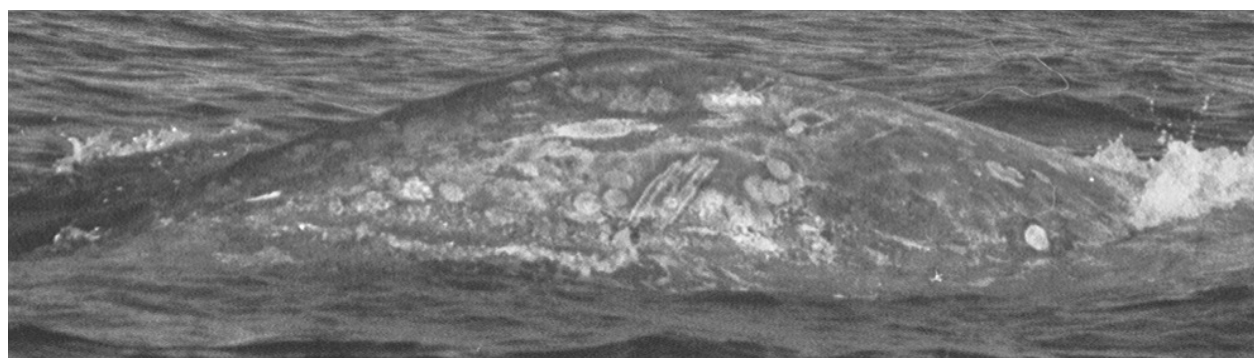
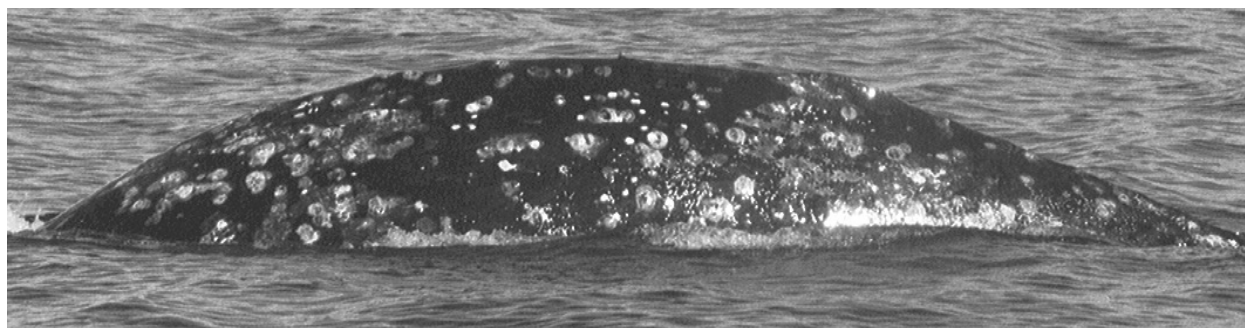
## GRAY WHALE NO. 175



ER#175 was sighted in 1996 at Bullman Beach in the western Strait of Juan de Fuca on 13 June. On the northern Washington coast in 1996, it was sighted at Portage Head on 16 August, in Makah Bay on 27 August, and at Portage Head again on 28 August. On 26 September 1996, it was sighted off Koitlah Point in the western Strait of Juan de Fuca. In 1997, all sightings of this whale were in the western Strait of Juan de Fuca. It was sighted at the Sail Rock/Snow Creek area on 1 July, at Seal and Sail Rock on 3 July, at Mushroom Rock on 29 July and on 1 August, at the first cove in the Gut on 2 August, at Rasmussen Creek on 24 August, east of Bullman Beach on 27 August, and at the Sail River and Chito Beach on 6 September. In 1998, it was sighted on the northern Washington coast at Skagway on 22 July, off Portage Head on 5 September, and off Portage Head again on 16 October. In 1999, it was sighted off Vancouver Island at Raphael Point on 7 August, at Siwash Point on 13 August, and off Split Cape on 11 September. In 2000, it was sighted off Vancouver Island at Estevan Point on 18 August, and off Perez Rocks on 20 August and 22 September. On 28 June 2001, it was sighted off the mouth of the Klanawa River on southwest

Vancouver Island.

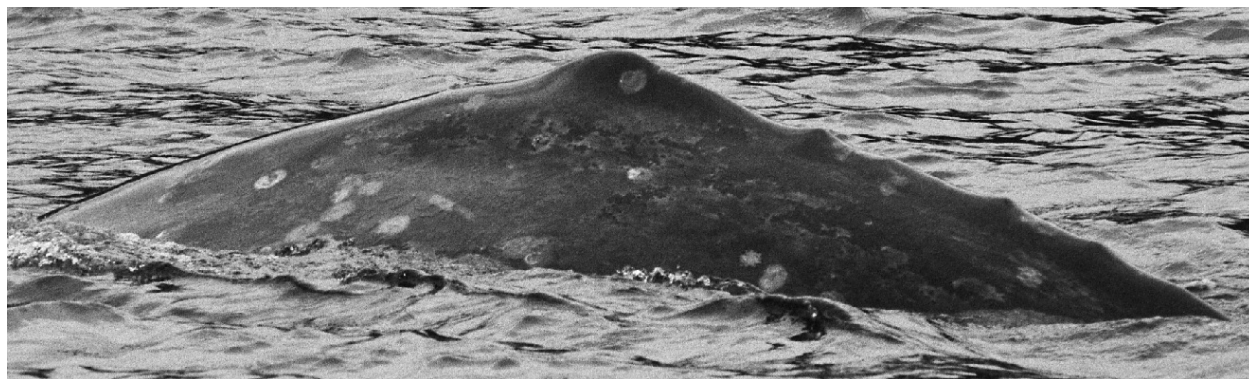
## GRAY WHALE NO. 177



ER#177 was sighted on 26 July 1997 at the Green Buoy outside the mouth of Neah Bay. It was also sighted in 1997 on the northern Washington coast at Sand Point on 28 August and at west Ozette Island on 2 September. In September 1997, it was sighted in the western Strait of Juan de Fuca at Second Beach on the 5<sup>th</sup>, at Slant Rock on the 8<sup>th</sup>, and at Kydaka Point on the 20<sup>th</sup>. In 1999, it was sighted off the southwest coast of Vancouver Island west of the Klanawa River on 23 July, near Tsusiat Falls and the Klanawa River on 4 August, and at Pachena Point on 14 August. That same year, it was later sighted off the northern Washington coast at Guano Rock on 28 September and at White Rock on 18 October.

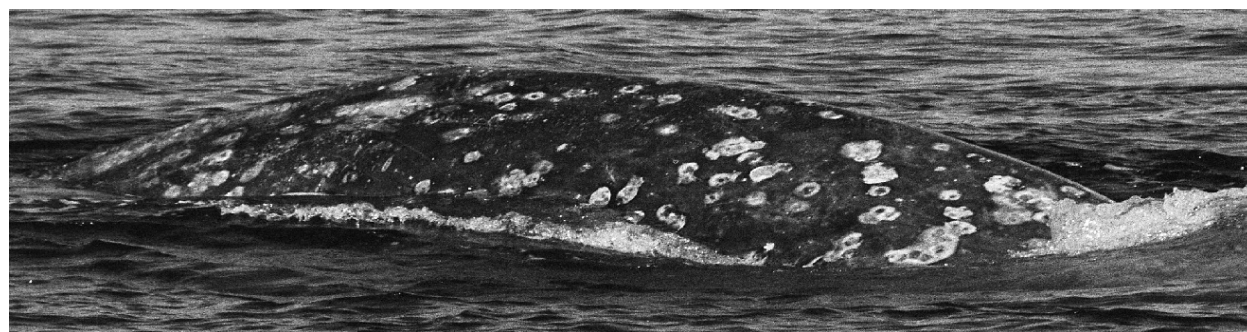
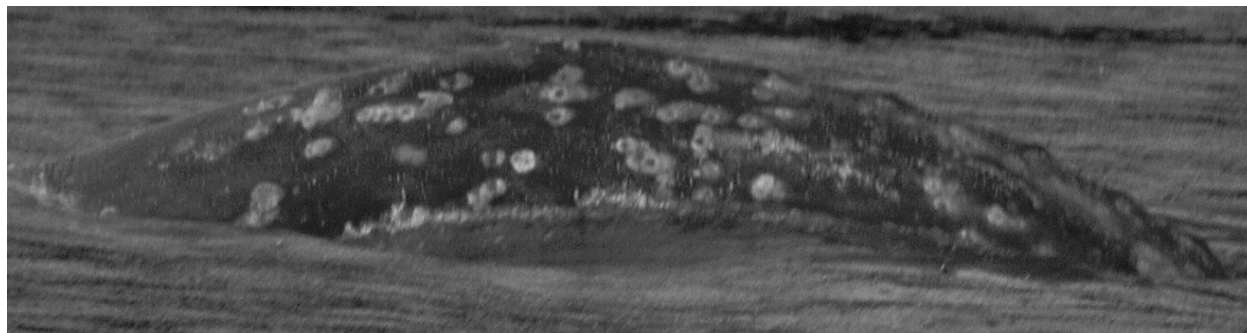


## GRAY WHALE NO. 178



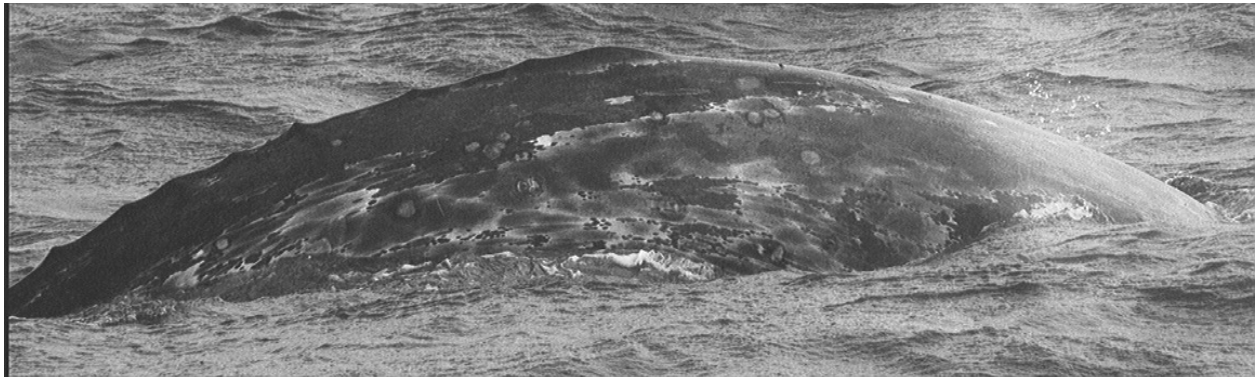
ER#178 was sighted at Bullman Beach in the western Strait of Juan de Fuca on 13 June 1996. In July 1997, it was sighted in the western Strait of Juan de Fuca at Sail Rock and Snow Creek on the 1<sup>st</sup>, at Sail and Seal Rock on the 3<sup>rd</sup>, and at Mushroom Rock on the 22<sup>nd</sup>. On 28 August 1997, it was sighted north of Ozette Island on the northern Washington coast. On 7 October 1997, it was sighted near the Sail River and Sail Rock. It was sighted off Perez Rocks on western Vancouver Island on 7 August 1999 and on 20 August and 22 September 2000.

## GRAY WHALE NO. 180



ER#180 was only sighted in 1997. On 12 June, it was sighted off Sail Rock and Snow Creek in the western Strait of Juan de Fuca. On 13 June, it was sighted off Greenbank on the northern Washington coast. The remaining sightings occurred in the western Strait of Juan de Fuca north of Waadah Island on 20 June, west of Rasmussen Creek on 1 July, north of Seal Rock on 14 July, off Jensen Creek on 16 July, east of Bullman Beach and off Snow Creek on 17 July.

## GRAY WHALE NO. 185



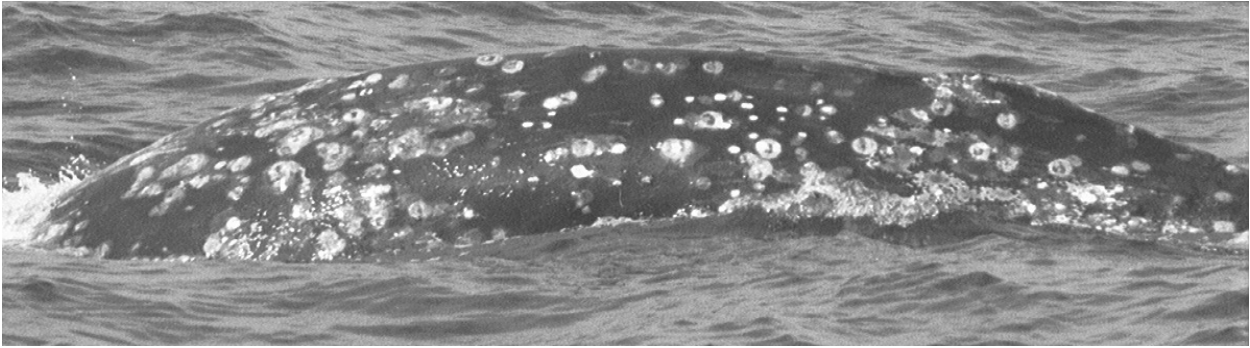
ER#185 was sighted in Makah Bay on the northern Washington coast on 23 August 1996. In 1997, it was sighted in the western Strait of Juan de Fuca east of Seal Rock on 20 June and at Sail Rock and Snow Creek on 1 July. On 16 August, it was sighted south of Fuca Pillar on the northern Washington coast. During the rest of 1997, all the sightings were in the western Strait of Juan de Fuca at Third Beach on 18 August, Bullman Beach on 8 September, at Snow Creek on the 20<sup>th</sup> and 29<sup>th</sup> of September, and at the Sail River and Snow Creek on 29 September. In 1999, it was sighted off the Darling River on southwestern Vancouver Island on 30 June and at Siwash Cove off western Vancouver Island on 7 August. The remaining sightings in 1999 occurred in the western Strait of Juan de Fuca at Bullman Beach on 26 August, off Third Beach on 4 October, off the Sail River on 14 October, and between Sail Rock and Rasmussen Creek on 19 October.

## GRAY WHALE NO. 186

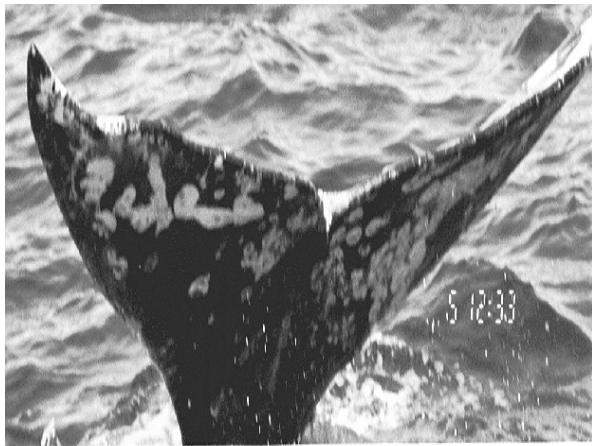
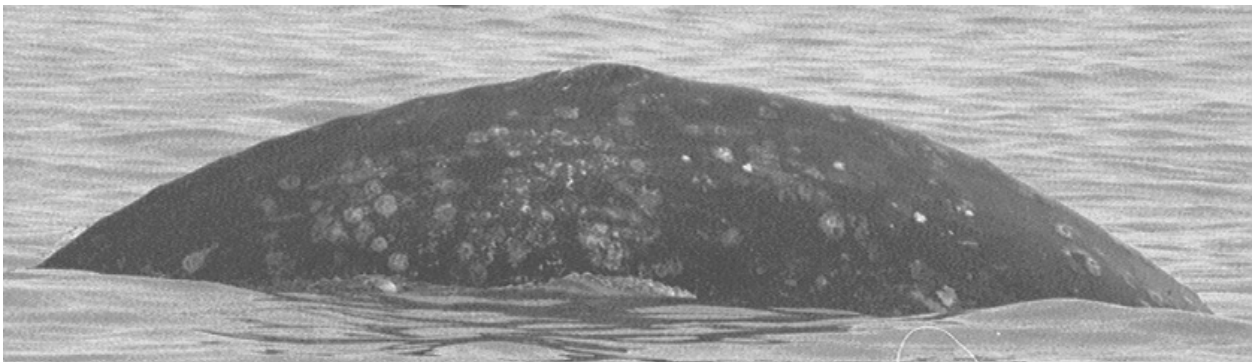


ER#186 has only been sighted off Vancouver Island. On 27 July 1996, it was sighted off Carmanah Point. On 1 July 1998, it was sighted off the Klanawa River and Tsusiat Falls. On 13 August 1999, it was sighted south of Escalante Rocks. In 2000, it was sighted at Estevan Point and Perez Rocks on 18 August, at Bajo Reef on 19 August, and at Pachena Bay around Seabird Rocks on 23 September. On 28 June 2001, it was sighted at Cape Beale.

## GRAY WHALE NO. 187



ER#187 was sighted in 1996 in the western Strait of Juan de Fuca at Bullman



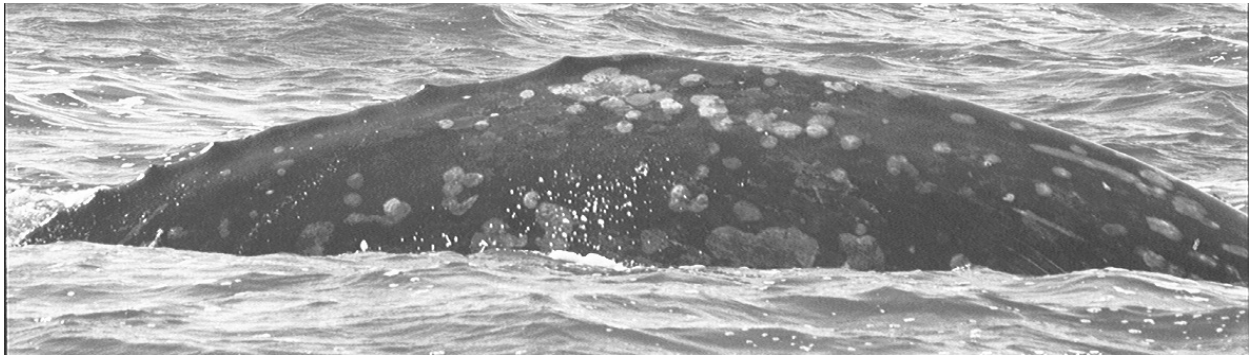
Beach on 13 June and at Snow Creek on 5 August. On 27 August 1996, it was sighted in Makah Bay on the northern Washington coast. In 1997, it was sighted at south Ozette Island on the Washington coast on 12 July, off Mushroom Rock in the western Strait of Juan de Fuca on 1 August, back at Ozette Island on 28 August, and off Kydaka Point in the western Strait of Juan de Fuca on 20 September. In 1998, it was only seen on the northern Washington coast

at Portage Head on 24 July, at Mad Bear Reef in Makah Bay on 30 July, at Greenbank on 6 August, at Portage Head on 16 August, at Shipwreck Rock on 31 August, northwest of Cooke Rock on 5 September, at Portage Head on 6 September, at Mad Bear Reef on 19 September, off Sand Point on 4 October, south of Father and Son Rock on 21 October, between Bodeltch and Ozette Island on 18 November. In 1999, it was sighted off Vancouver Island west of Nitinat on 23 July, at Tsusiat Point and west of the Klanawa River on 4 August, and northwest of Split Cape on 12 September. In 2000, it was sighted along the southwest Vancouver Island coast

at Cape Beale on 17 August and off the Klanawa River on 23 September. In 2001, it was sighted at Cape Beale on 28 June and off Starlight Reef in Barkley Sound on 9 August.



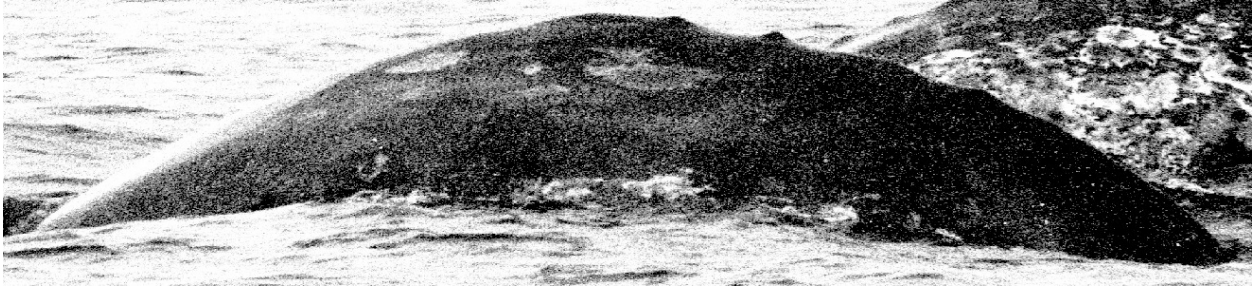
## GRAY WHALE NO. 192



ER#192 was first sighted west of Ozette Island on the northern Washington coast on

2 September 1997. In 1998, it was sighted off southwest Vancouver Island at Tsusiat Falls on 1 July and at Carmanah on 25 August. The remaining sightings in 1998 were along the northern Washington coast between Cooke Rock and Father and Son Rock on the 5<sup>th</sup>, 6<sup>th</sup>, 15<sup>th</sup>, and 16<sup>th</sup> of September, off Sand Point on 4 October, and between Bodelteh and Ozette Island on 21 October. In 1999, it was sighted off southwest Vancouver Island near the Darling River on 30 June, west of the Klanawa River on 23 July, and east of Pachena Point on 4 August. On 17 August 2000, it was sighted outside Pachena Bay. In 2001, it was sighted at the mouth of the Klanawa River on 28 June and off Tsusiat Falls on 6 July.

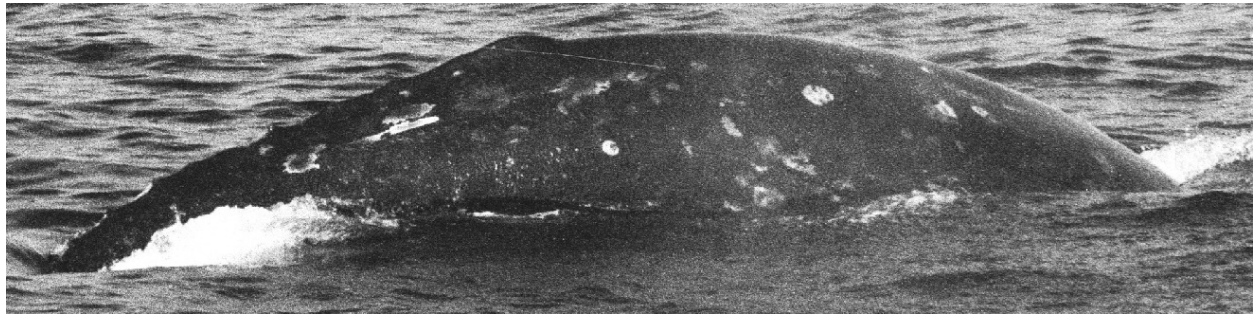
## GRAY WHALE No. 193



Gray whale No. 193 was sighted on 7 September 2002 off Starlight Reef in Barkley Sound on the western coast of Vancouver Island.

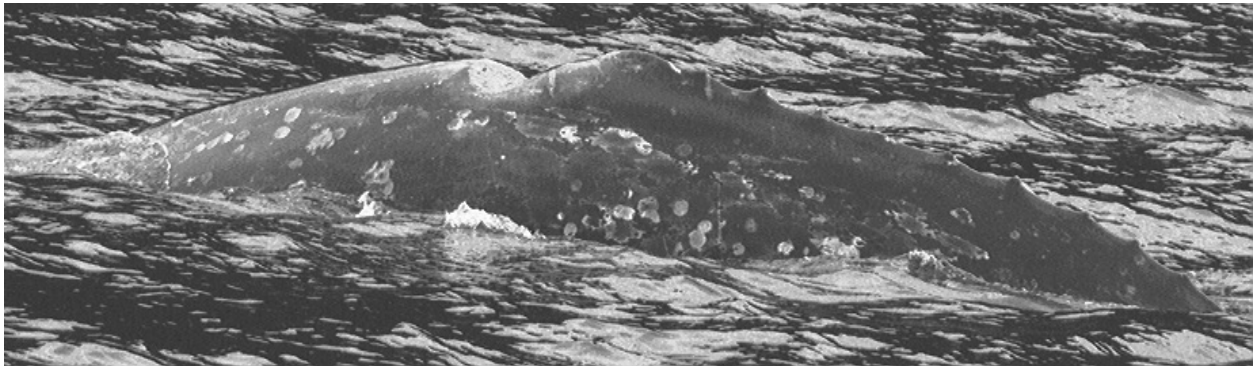


## GRAY WHALE No. 196



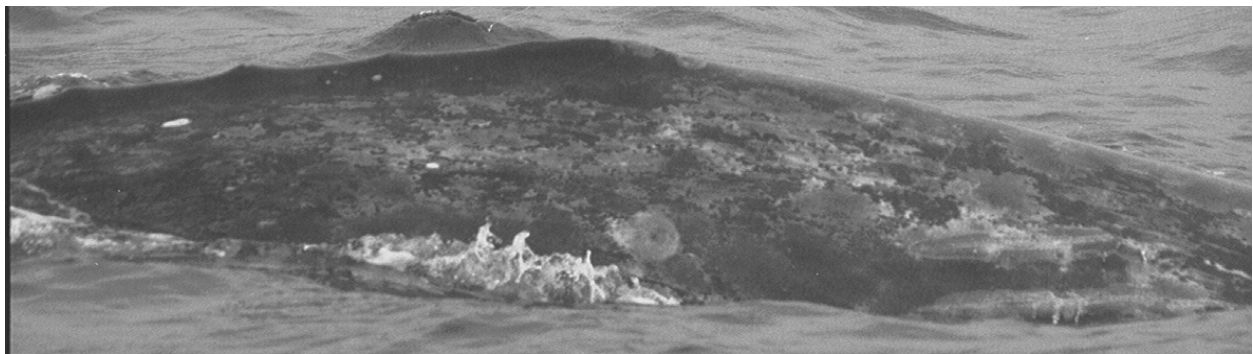
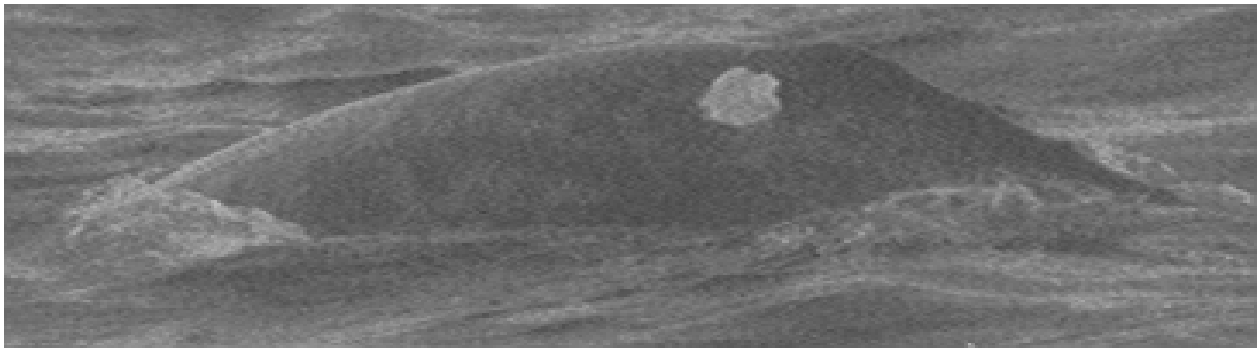
Gray whale No. 196 was sighted off Long Brown Rock at Port Orford Reef on the southern Oregon coast on 17 July 2002.

## GRAY WHALE NO. 204



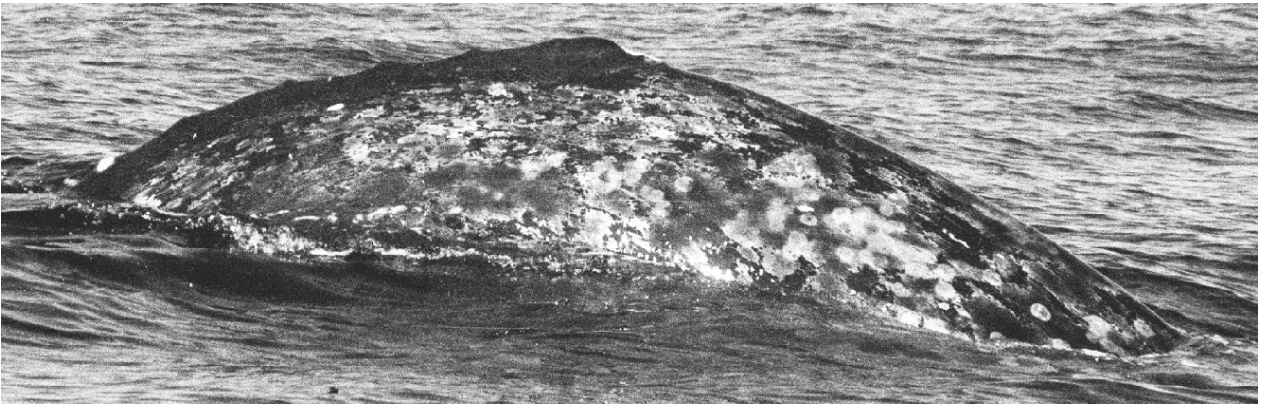
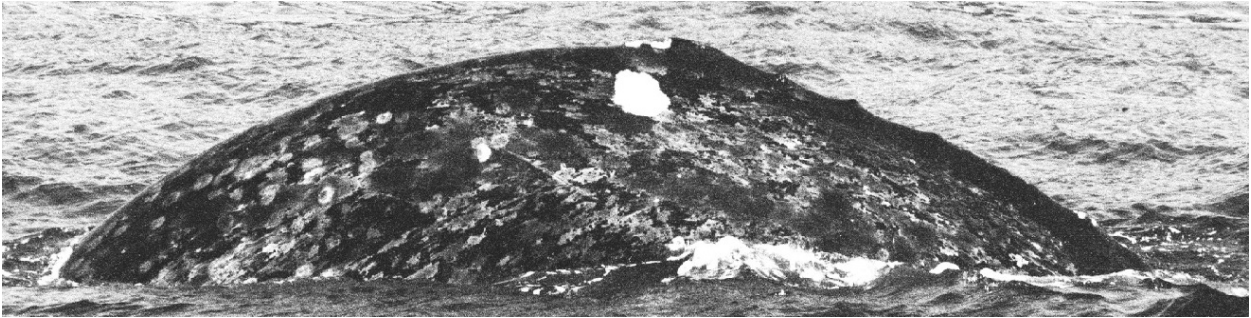
ER#204 was sighted in 2000 at Skagway on the northern Washington coast on 18 July and off the mouth of the Darling River on southwest Vancouver Island on 23 September.

## GRAY WHALE NO. 205



ER#205 was sighted in the western Strait of Juan de Fuca in 1997 in the first cove on the Gut on the 1<sup>st</sup> and 2<sup>nd</sup> of August, outside the Neah Bay jetty on 3 August, west of Slant Rock on 4 August, around Mushroom Rock on 17 August, 2 September, and on 5 September, and again at Slant Rock on the 6<sup>th</sup> and 7<sup>th</sup> of September. Subsequent sightings have occurred along the northern Washington coast. In 1999, it was sighted at Waatch Point on 28 August, off Greenbank on 29 August, and at Guano Rock on 28 September. On 18 September 2000, it was sighted at Portage Head. In 2001, it was sighted around Ozette Island on 30 August and off Portage Head on 6 September. In 2003, it was sighted in Makah Bay on 26 July, between Makah Bay and Waatch Point on 28 July, and off Skagway on 21 August.

## GRAY WHALE NO. 205



ER#205 was sighted in the western Strait of Juan de Fuca in 1997 in the first cove on the Gut on the 1<sup>st</sup> and 2<sup>nd</sup> of August, outside the Neah Bay jetty on 3 August, west of Slant Rock on 4 August, around Mushroom Rock on 17 August, 2 September, and on 5 September, and again at Slant Rock on the 6<sup>th</sup> and 7<sup>th</sup> of

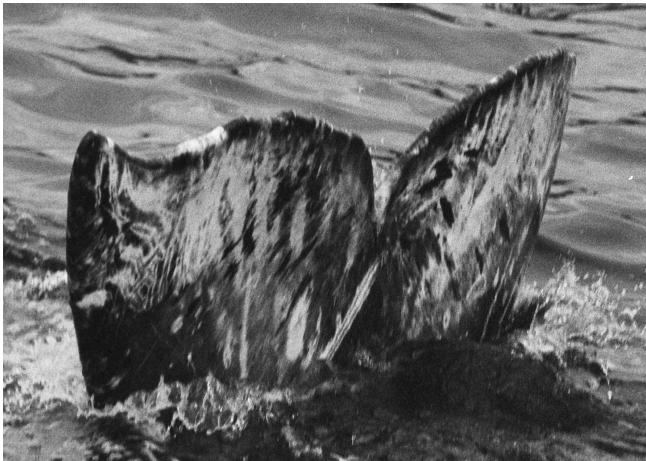
September. Subsequent sightings have occurred along the northern Washington coast. In 1999, it was sighted at Waatch Point on 28 August, off Greenbank on 29 August, and at Guano Rock on 28 September. On 18 September 2000, it was sighted at Portage Head. In 2001, it was sighted around Ozette Island on 30 August and off Portage Head on 6 September. In 2003, it was sighted in Makah Bay on 26 July, between Makah Bay and Waatch Point on 28 July, and off Skagway on 21 August.

## GRAY WHALE No. 206



ER#206 was sighted on 26 October 2003 south of Castle Rock off the coast of northern California.

## GRAY WHALE NO. 209

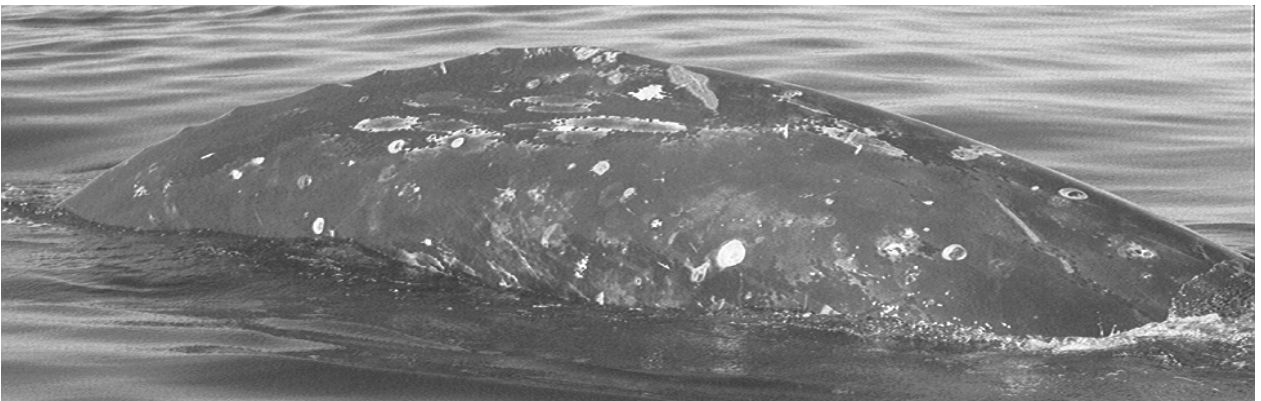


ER#209 was sighted in 1997 in the western Strait of Juan de Fuca west of Koitlah Point on 20 June, east of Koitlah Point and east of Slant Rock on 3 July, off Warmhouse Beach on 6 July, near Mushroom Rock on 10 July, west of Waadah Island on 13 July, southeast of Koitah Point and the Garbage Dump on 18 July, around Mushroom Rock on 1 August, in the first cove of the Gut on 2 August, and west of Slant Rock on 4 August. In 1997, it was sighted on the northern Washington coast around Fuca Pillar on the 16<sup>th</sup> and 17<sup>th</sup> of August, west of Ozette Island on 22 August, and off Sand Point on 28 August. On 2 September 1997, it was sighted off Warmhouse Beach. On 22 July 1998, it was sighted off Greenbank.





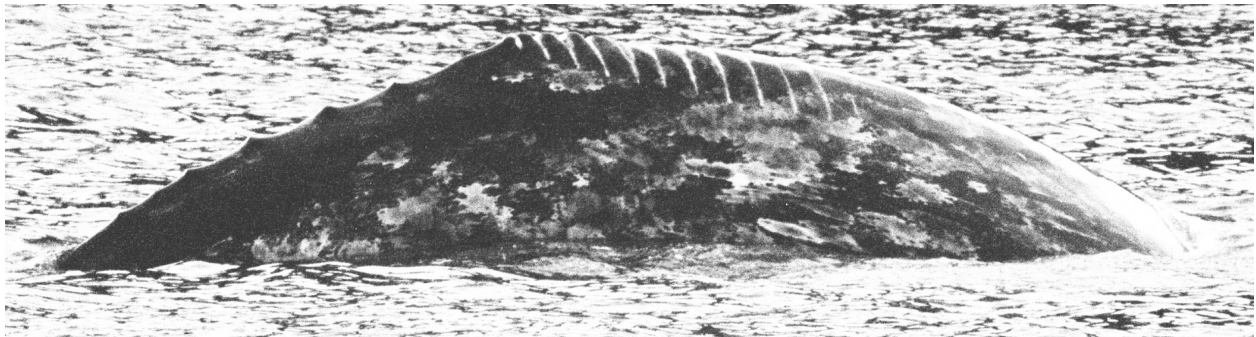
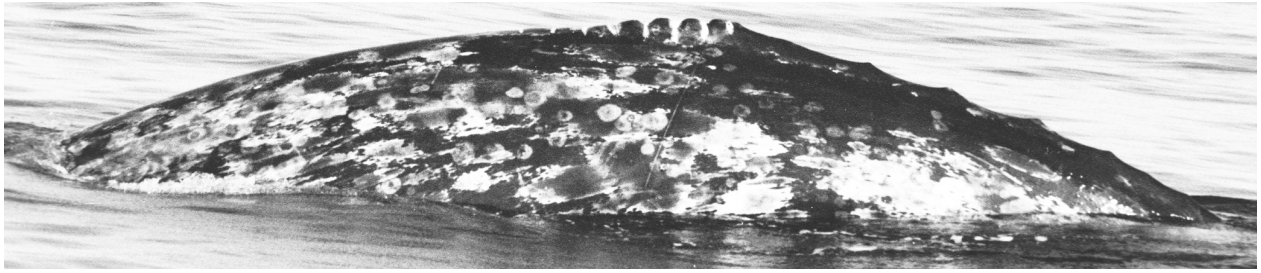
## GRAY WHALE NO. 212



ER#212 was sighted along the northern Washington coast in 1996 at Greenbank on 12 September and at Portage and Anderson Head on 18 September. In 1997, it was sighted in the western Strait of Juan de Fuca at Sail Rock and Snow Creek on 12 June, at Midway on 13 June, and off Chito Beach on 1 July. In 1998, it was sighted along the southwestern coast of Vancouver Island at Carmanah Point on 1 July, west of Carmanah Point on 25 August, at Bonilla Point on 28 August, northwest of Carmanah on 4 September, and east of Bonilla on 22 September. In 1999, it was sighted around Pachena Point on 23 July and 10 September. In 2001, it was sighted off Cape Beale on 28 June and off Bajo Point on western Vancouver Island on 11 August.



## GRAY WHALE No. 215



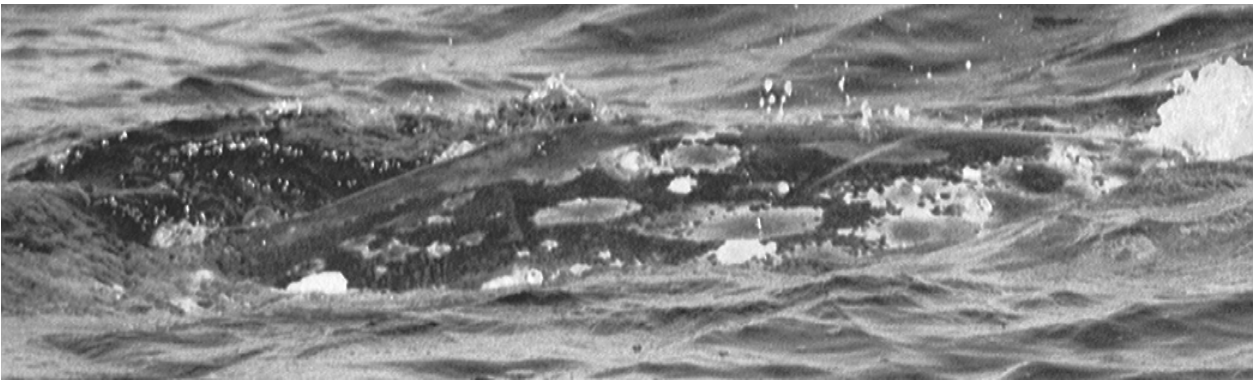
ER#215 was sighted in 2003 in the western Strait of Juan de Fuca east of Slant Rock on 25 June, off Koitlah Point on 5 August, and off Third Beach on 6 August. On 21 August 2003, it was sighted off Anderson Point off the northern Washington coast.

## GRAY WHALE NO. 216



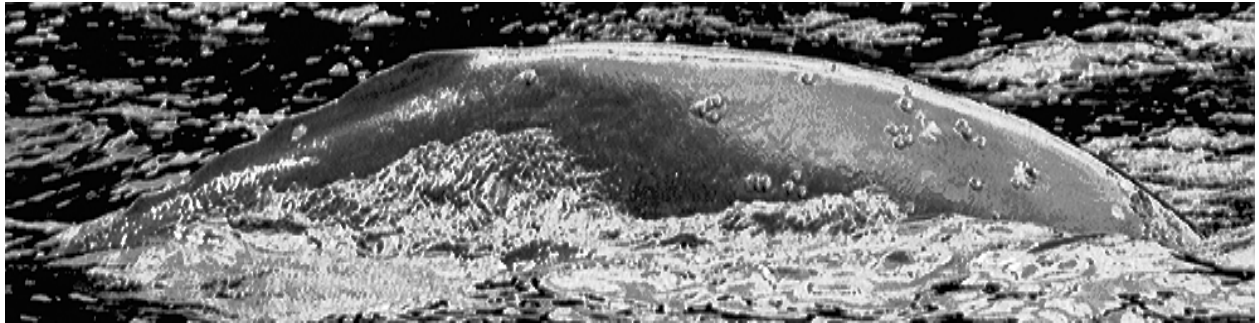
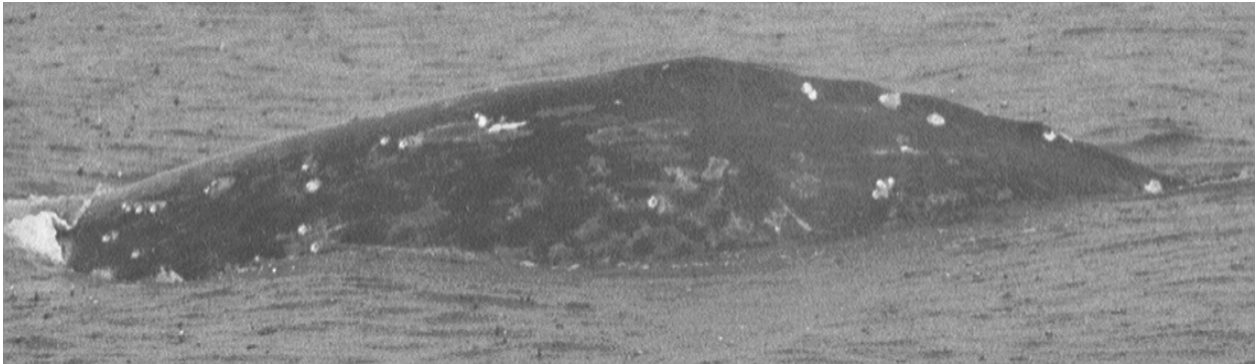
ER#216 was sighted in the western Strait of Juan de Fuca at Warmhouse Beach on 27 June 1997. In 2003, it was sighted along the northern Washington coast near Ozette Island on 26 July and near the Cannonball rocks and Ozette River rocks on 28 July. Later in 2003, it was sighted in the western Strait of Juan de Fuca off the Sail River mouth on 26 August, at Third Beach on 3 September, at Seal and Sail Rocks on 4 September, off the Sail River and Rasmussen Creek on 17 September, off the Sail River on 22 September, and near Waadah Island on 24 September. On 5 October 2003, it was sighted on the northern Washington coast at Skagway. On 15 October 2003, it was sighted in the Strait of Juan de Fuca at First Beach and at Koitlah Point.

## GRAY WHALE NO. 217



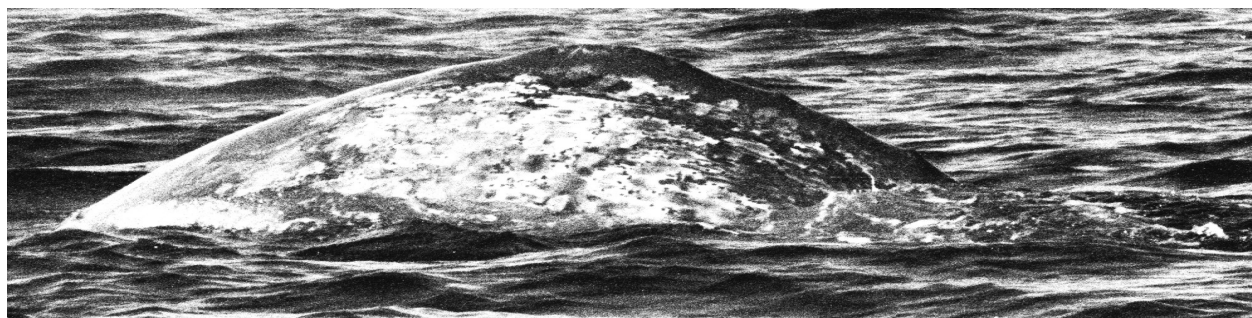
ER#217 was sighted in 1997 in the western Strait of Juan de Fuca at Snow Creek on September 20<sup>th</sup> and 28<sup>th</sup>, and at Jensen Creek on 6 October.

## GRAY WHALE NO. 218



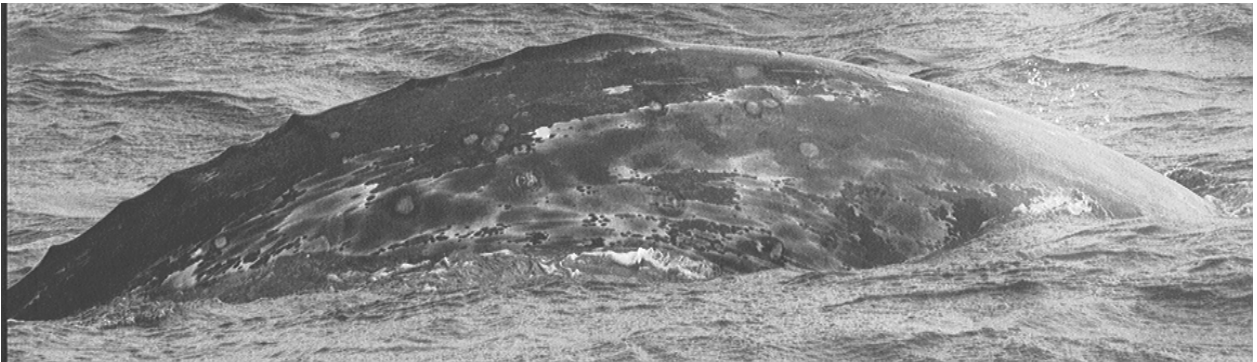
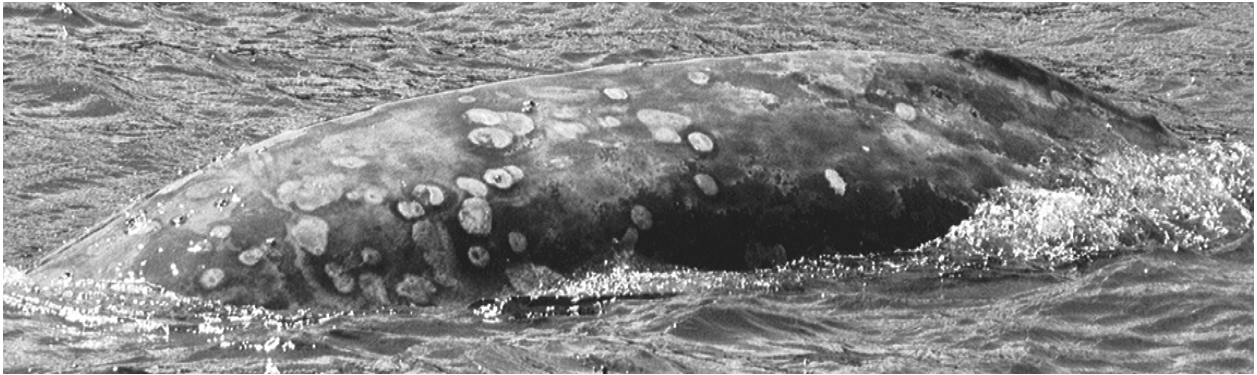
ER#218 was sighted in 1997 in the western Strait of Juan de Fuca at Koitlah Point on 12 August and north of Rasmussen Creek on 27 August.

## GRAY WHALE No. 219



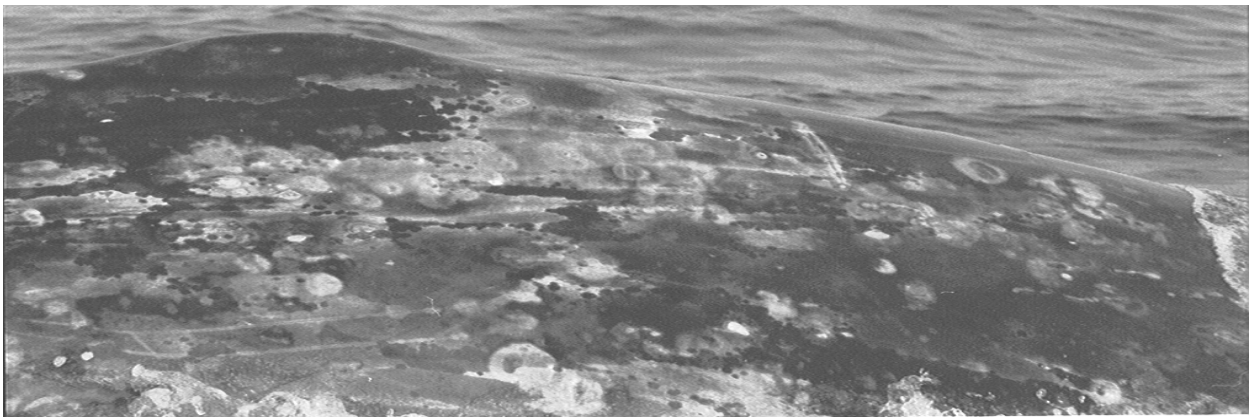
Gray whale No. 219 was sighted in 1997 in the western Strait of Juan de Fuca off Koitlah Point and Midway on 31 May, north of Waadah Island on 1 June, and east of Koitlah Point on 2 June. In 1998, it was sighted off the southern coast of Vancouver Island at Tsusiat Falls on 1 July, southeast of Nitinat on 3 July, off Carmanah Point on 21 July, and west of Carmanah on 4 September. In 1999, it was again sighted off the southern coast of Vancouver Island west of Nitinat on 23 July and west of Pachena Point on 14 August. On 23 September 2000, it was sighted again at Carmanah. In 2001, it was sighted off the southern coast of Vancouver Island at the mouth of the Klanawa River on 28 June and east of Bonilla Point on 6 July. On 7 September 2002, it was sighted off Amphitrite Point and off Starlight Reef on the west side of Barkley Sound on the western side of Vancouver Island.

## GRAY WHALE NO. 220



ER#220 was sighted in 1997 in the western Strait of Juan de Fuca at Bullman Beach on 17 July, near the Green Buoy at the mouth of Neah Bay on 26 July, west of Koitlah Point on 3 August, at Kydikabbit Point on 4 August, off Koitlah Point on 11 August, at Third Beach and at Sail and Seal Rocks on 18 August, outside the jetty at Neah Bay and at Third Beach on 27 August, at Slant Rock on 8 September, at Snow Creek and the Sail River on 29 September, and at Seal and Sail Rocks on 30 September.

## GRAY WHALE NO. 226



ER#226 was sighted in 2000 at Cape Beale on the southwest coast of Vancouver Island on 17 August and on 23 September. In 2001, it was sighted off the northern Washington coast at Greenbank on 6 September.



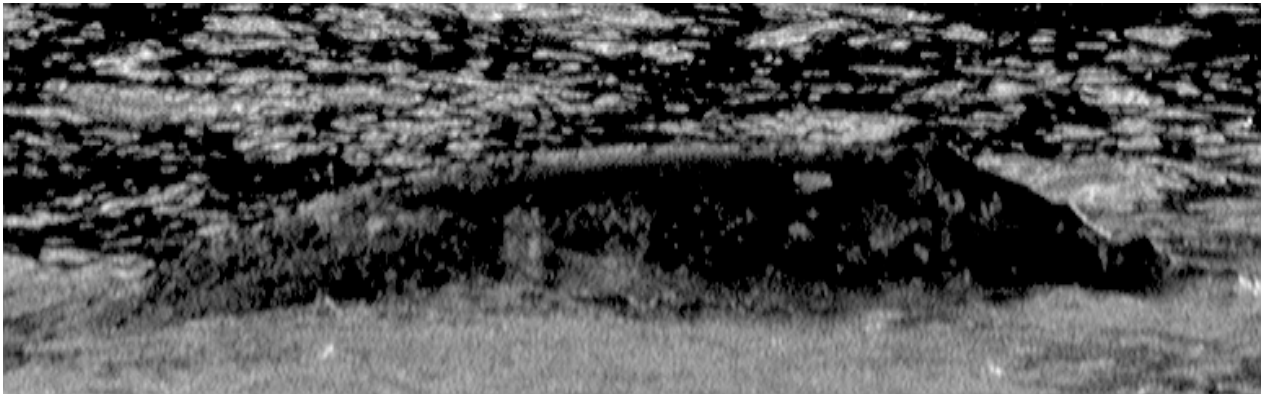


## GRAY WHALE NO. 227



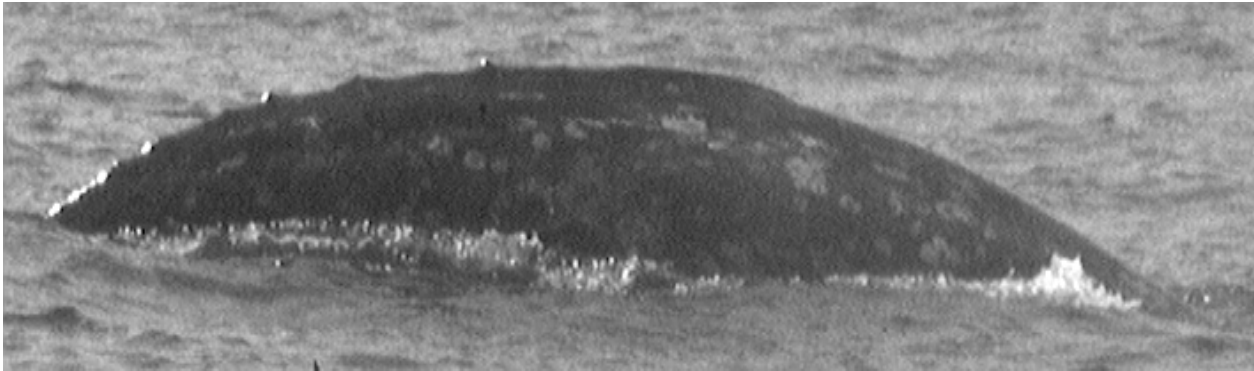
ER#227 was sighted in 1998 off the southwest coast of Vancouver Island at Carmanah Point on 1 July and off Nitinat on 3 July. In 2000, it was sighted at Estevan Point and Perez Rocks on 18 August and at Perez Rocks on 20 August.

## GRAY WHALE NO. 228



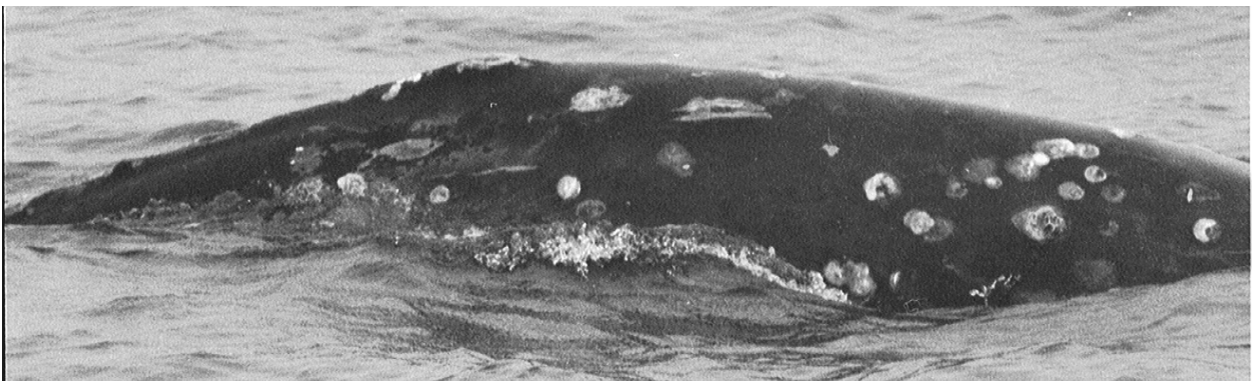
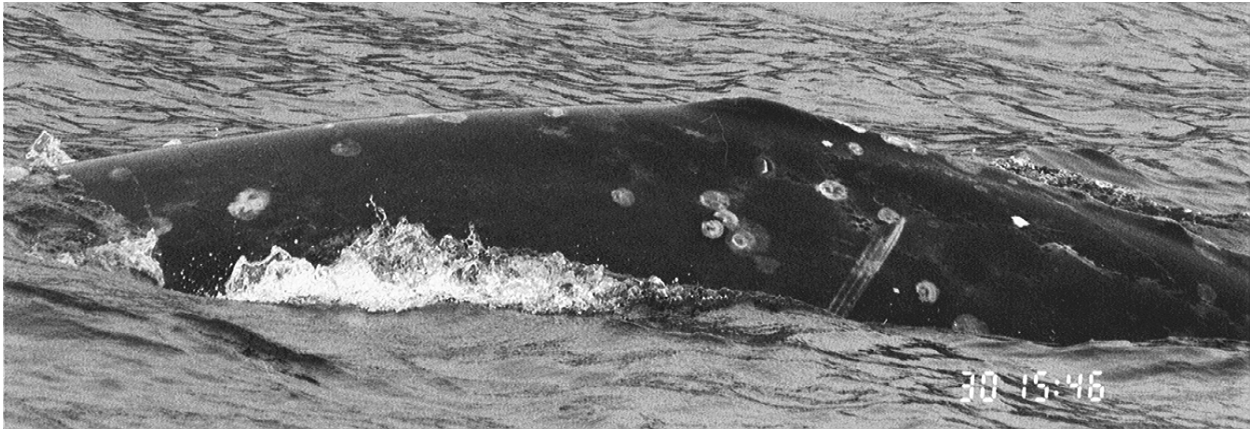
ER#228 was sighted in 1998 in the western Strait of Juan de Fuca at Jensen Creek on 1 November and at Seal and Sail Rocks on 4 November.

## GRAY WHALE NO. 229



ER#229 was sighted in 1999 off Bajo Point and Bajo Reef on the west coast of Vancouver Island on 8 August and 12 August. On 18 August 2000, it was sighted at Estevan Point and Perez Rocks.

## GRAY WHALE NO. 231



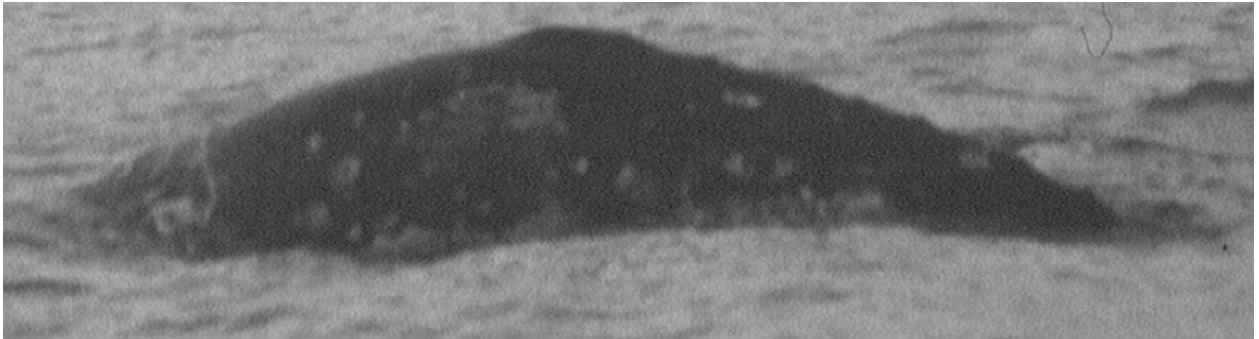
ER#231 has only been sighted off the southwest coast of Vancouver Island. In 1998, it was sighted around Carmanah Point on 1 July, 3 July, 21 July, 25 August, and 4 September. On 22 September 1998, it was sighted east of the Nitinat entrance. In 1999, it was sighted east of Tsusiat Falls on 30 June, east of Bonilla Point on 4 August, and west of Bonilla Point on 14 August.

## GRAY WHALE NO. 232



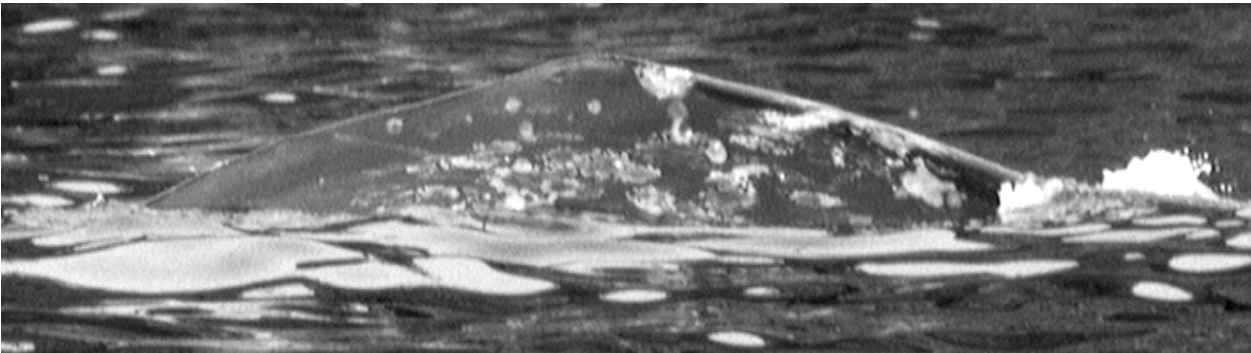
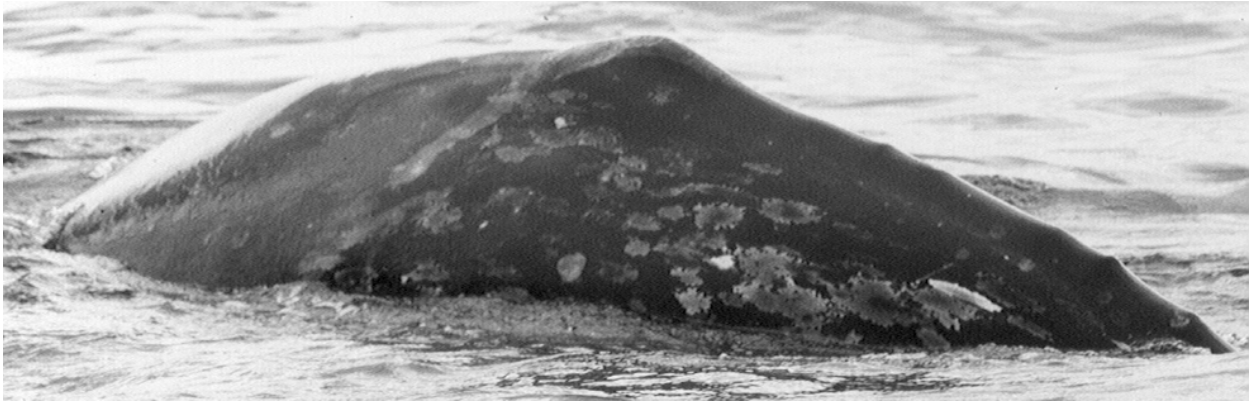
ER#232 was sighted in 1998 east of Carmanah Point on southwest Vancouver Island on 17 July and 25 August. On 15 August 2002, it was sighted at Kodiak Island, Alaska.

## GRAY WHALE NO. 233



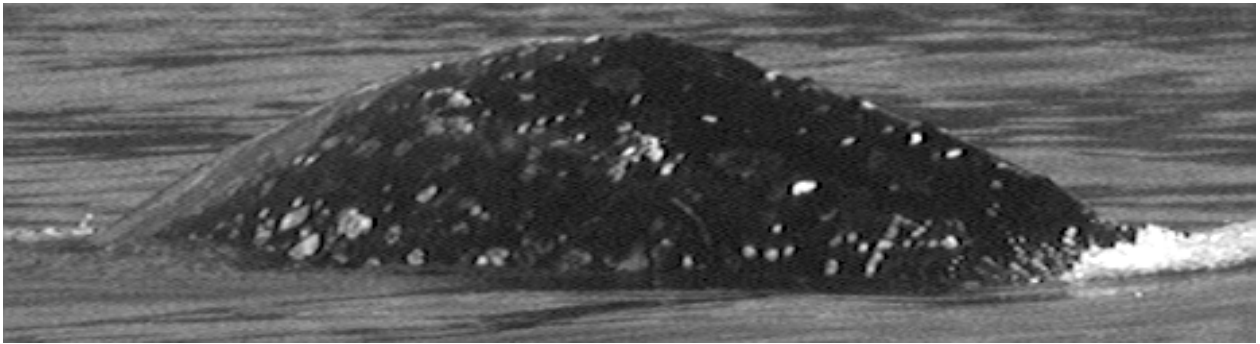
ER#233 was sighted in 1998 on the southwest coast of Vancouver Island at Carmanah Point on 1 July and west of Carmanah Point on 3 July.

## GRAY WHALE NO. 234



ER#234 was sighted on 1 July 1998 off the Klanawa River on southwest Vancouver Island. In 1999, it was sighted off western Vancouver Island at Perez Rocks on 13 August, off Split Cape on 11 September, and off Bajo Reef on 12 September. In 2000, it was sighted in Barkley Sound off Wouwer Island on 21 August and off the Starlight Rocks on 23 September.

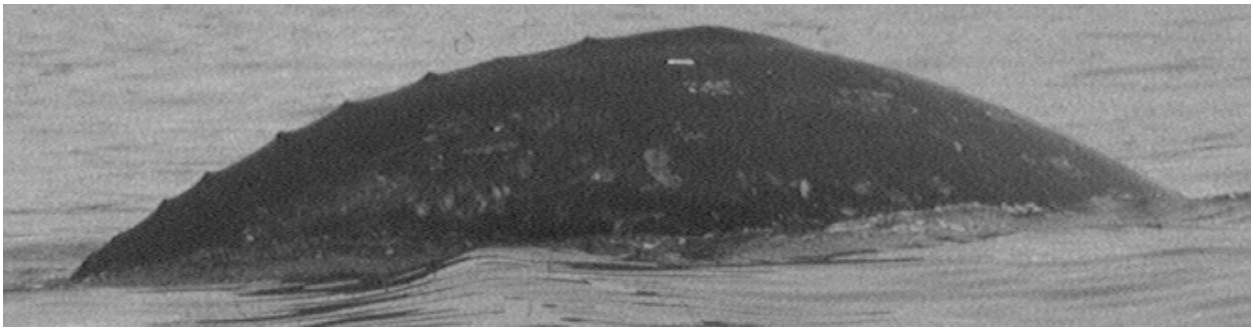
## GRAY WHALE NO. 236



ER#236 was sighted in 1998 on the southwest coast of Vancouver Island east of Carmanah Point on 25 August and at Bonilla Point on 28 August. On 10 August 1999, it was sighted at the northern end of Vancouver Island southeast of Christensen Point.

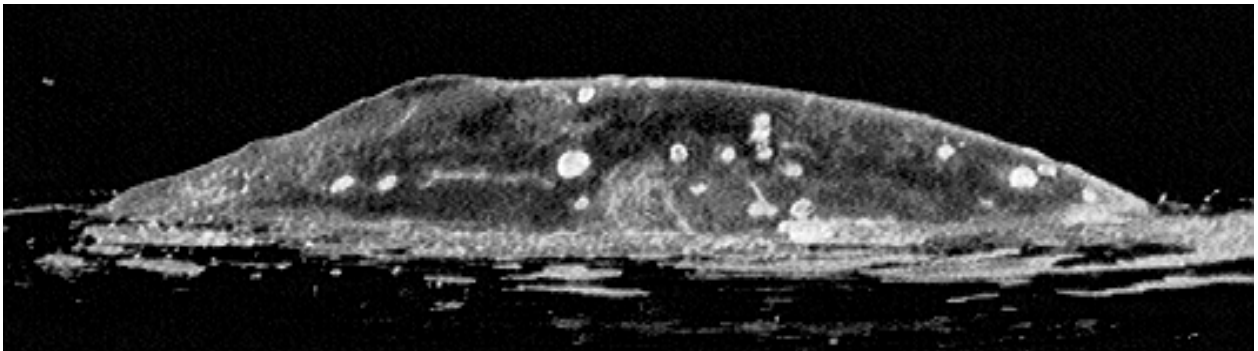


## GRAY WHALE NO. 238



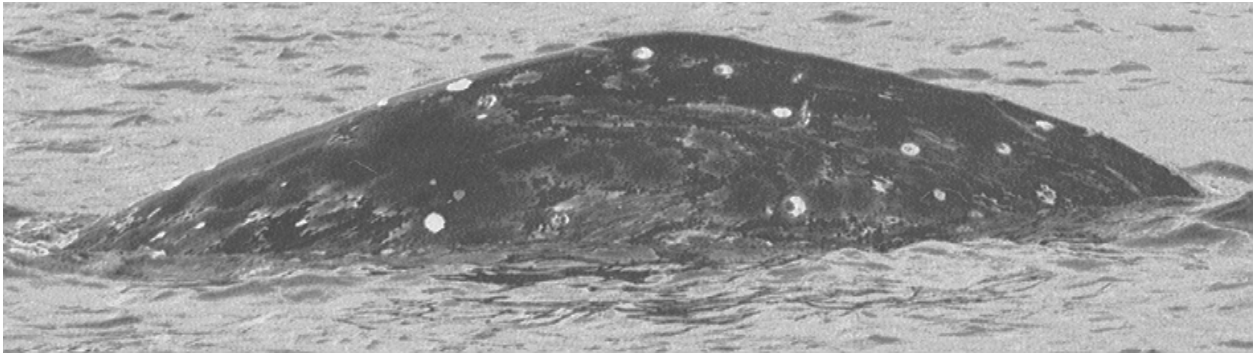
ER#238 was sighted on 1 July 1998 at Tsusiat Falls on southwest Vancouver Island. On 11 August 1999, it was sighted west of Wilkie Point and south of Cape Caution in northern British Columbia. On 9 July 2001, it was sighted off the Darling River on southwest Vancouver Island.

## GRAY WHALE NO. 239



ER#239 was sighted in 1998 in the western Strait of Juan de Fuca at Jensen Creek on 14 October, off Rasmussen Creek and Seal and Sail Rocks on 15 October, and at Snow Creek on 22 October.

## GRAY WHALE NO. 242



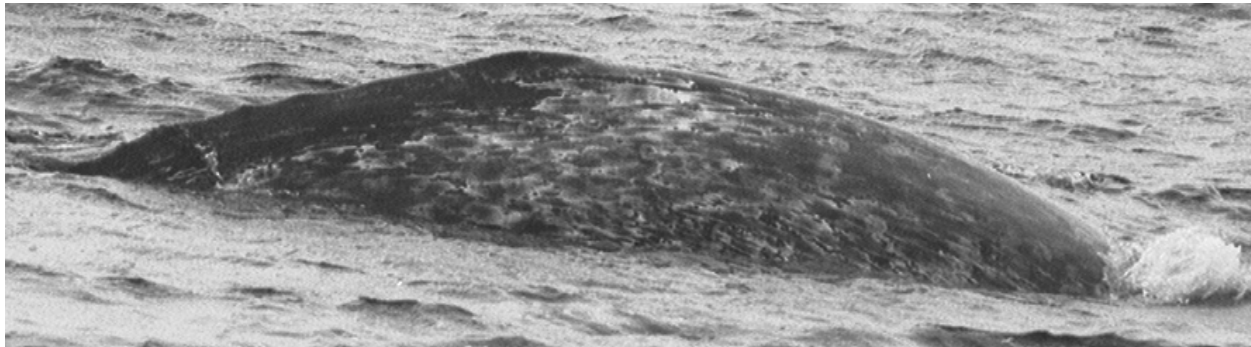
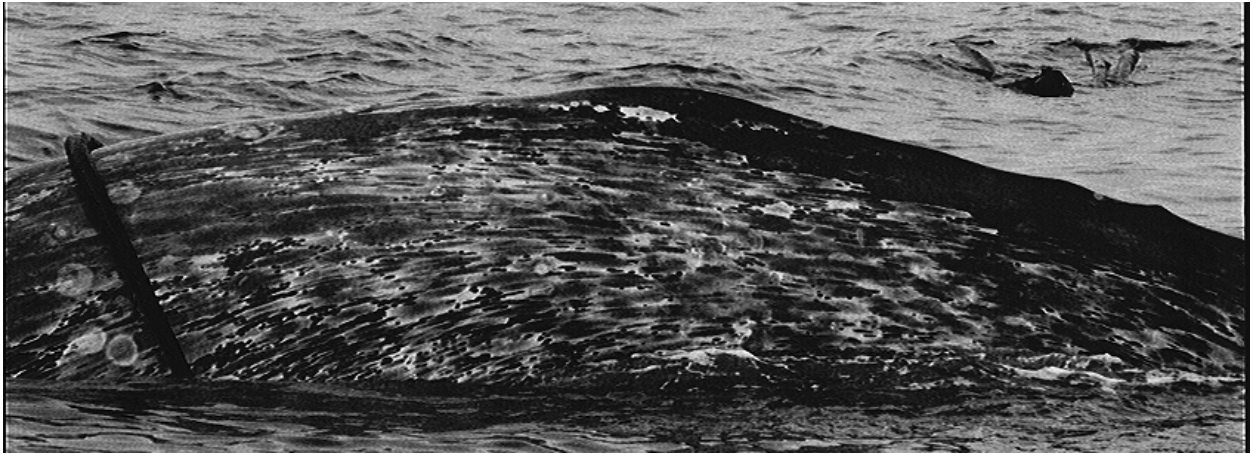
ER#242 was sighted east of Carmanah Point on southwest Vancouver Island on 17 July 1998. On 21 September 1998, it was sighted off Sand Point on the northern Washington coast. The rest of the sightings in 1998 occurred in the western Strait of Juan de Fuca at Seal Rock on 18 October, Snow Creek on 21 October, Seal Rock on 28 October, and off the Sail River on 31 October and 5 November. In 1999, it was sighted off the southwest coast of Vancouver Island west of Nitinat on 23 July, west of the Klanawa River on 4 August, and west of Pachena Point on 14 August. The rest of the sightings in 1999 occurred in the western Strait of Juan de Fuca off Snow Creek on 29 September, off Third Beach on 4 October, off the Sail River on 14 October, at Sail Rock and Rasmussen Creek on 19 October, and off Jensen Creek on 3 November. In 2000, it was again sighted in the western Strait of Juan de Fuca at Rasmussen Creek and Bullman Beach on 4 May, northwest of Waadah Island and off Seal Rock on 15 May, off Rasmussen Creek on 22 May, at Third Beach and Snow Creek on 7 June, and at Bullman Beach on 2 July. On 9 July 2001, it was sighted at Cape Beale on the southwest coast of Vancouver Island. It was sighted on the northern Washington coast at Strawberry Rock on 30 August 2001 and at Bodelteh on 8 November 2001.

## GRAY WHALE NO. 243



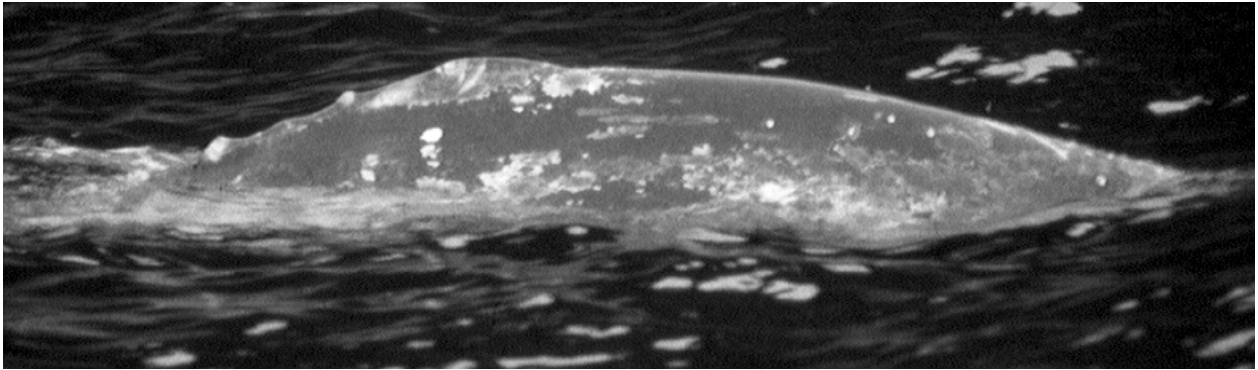
ER#243 was sighted on 17 July 1998 east of Carmanah Point on southwest Vancouver Island.

## GRAY WHALE NO. 244



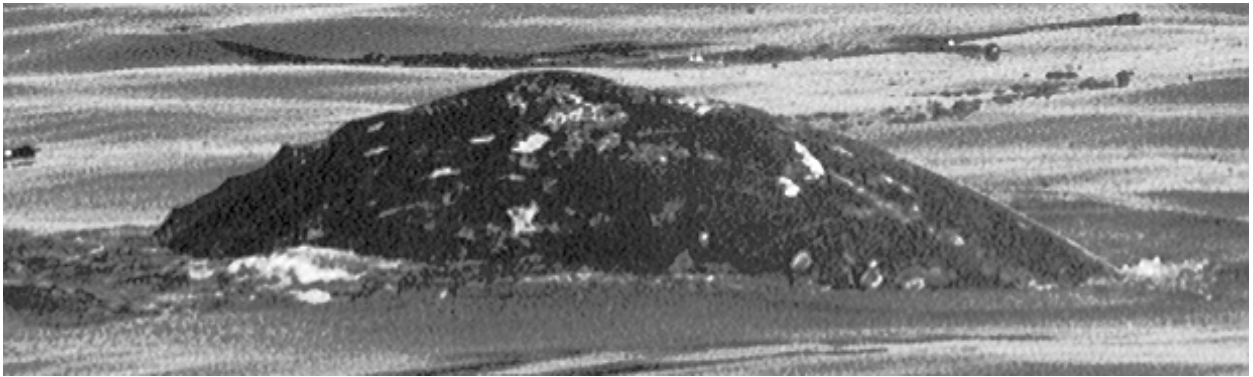
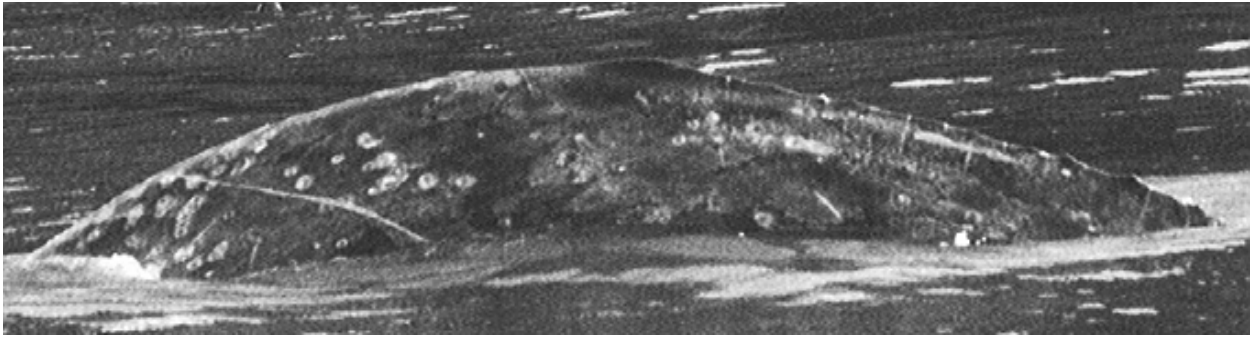
ER#244 was sighted east of Bonilla Point on southwestern Vancouver Island on 22 September 1998. In 1999, it was sighted off western Vancouver Island at Bajo Point and Bajo Reef on 8 August and at Barceste Bay on 13 August. In 2000, it was sighted off the Estevan lighthouse on western Vancouver Island on 20 August and at Cape Beale off the southwest coast of Vancouver Island on 23 September.

## GRAY WHALE NO. 246



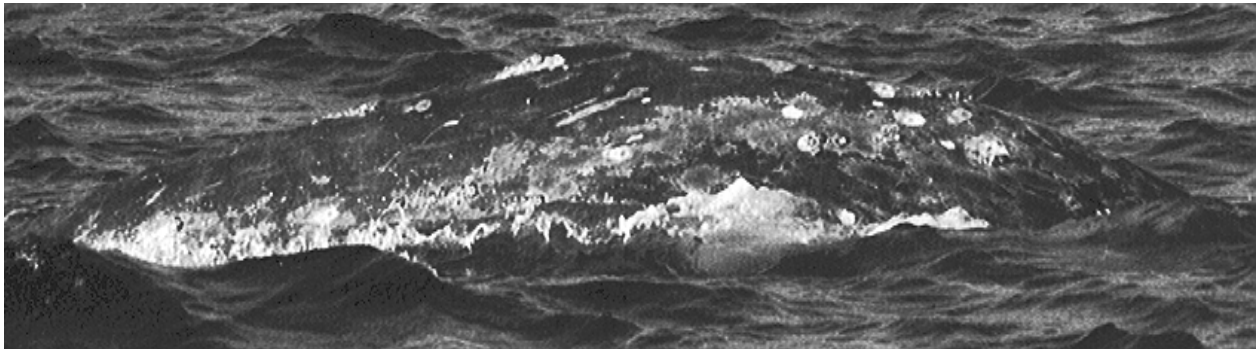
ER#246 was sighted on 3 July 1998 on the southwest coast of Vancouver Island at Camper's Creek near Owen Point.

## GRAY WHALE NO. 249



ER#249 was sighted in October 1998 along the western Strait of Juan de Fuca at Rasmussen Creek on the 14<sup>th</sup>, at Seal and Sail Rocks on the 15<sup>th</sup>, and at Seal Rock on the 18th.

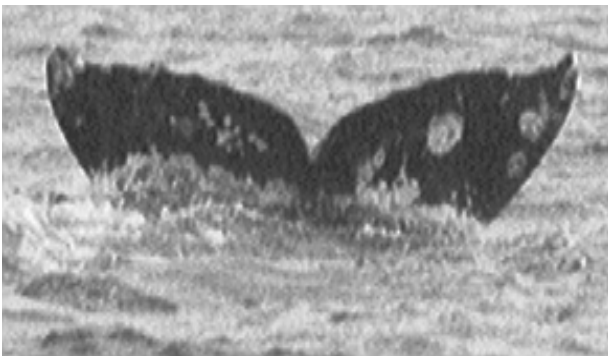
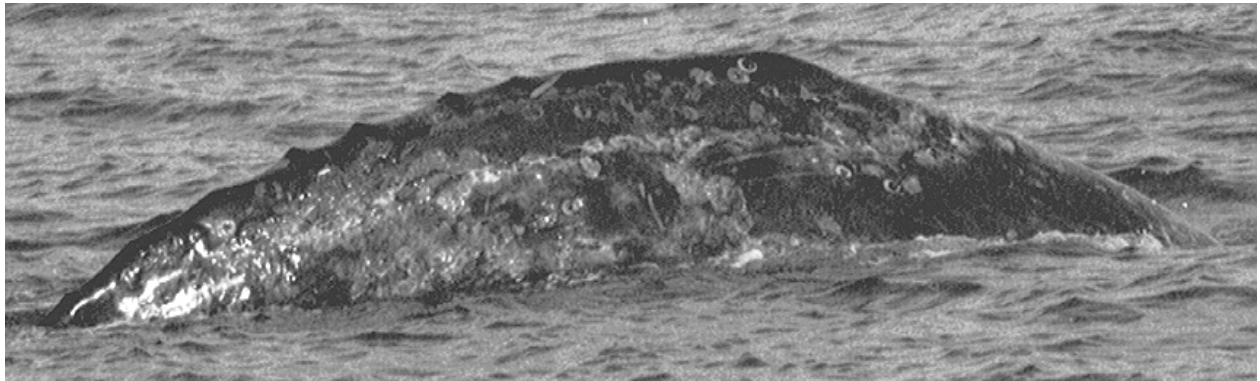
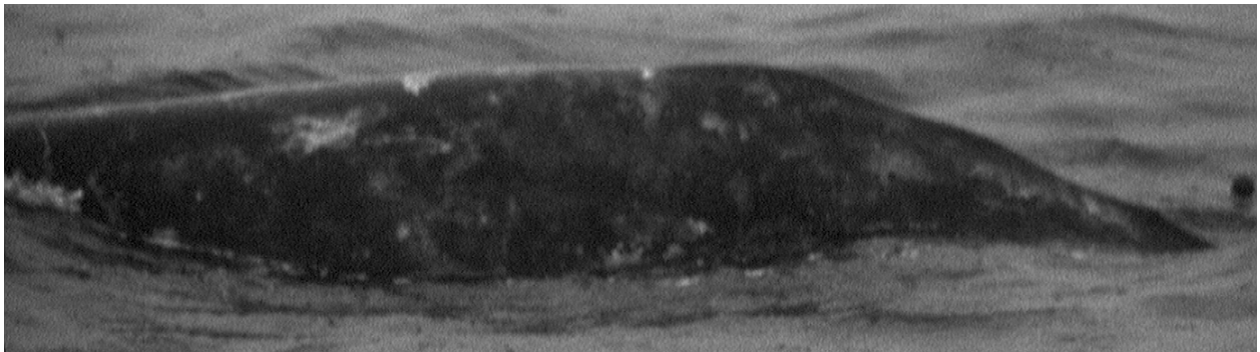
## GRAY WHALE NO. 250



ER#250 was sighted on 7 November 1998 at Sail Rock in the western Strait of Juan de Fuca.



## GRAY WHALE NO. 251



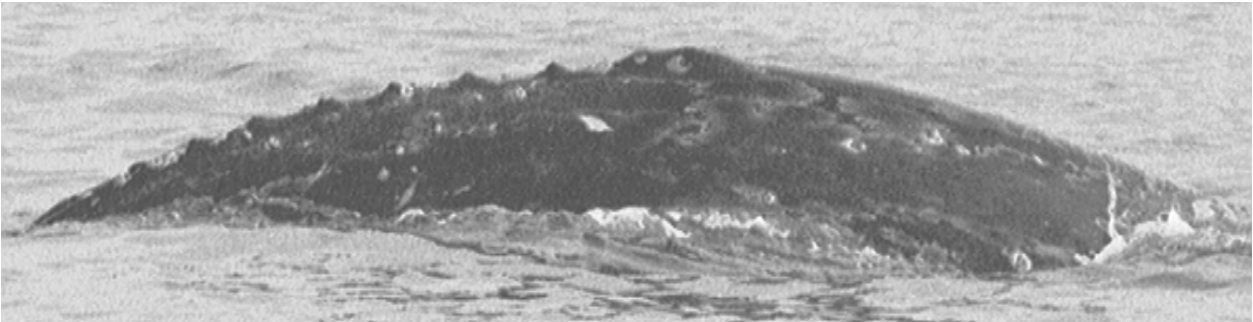
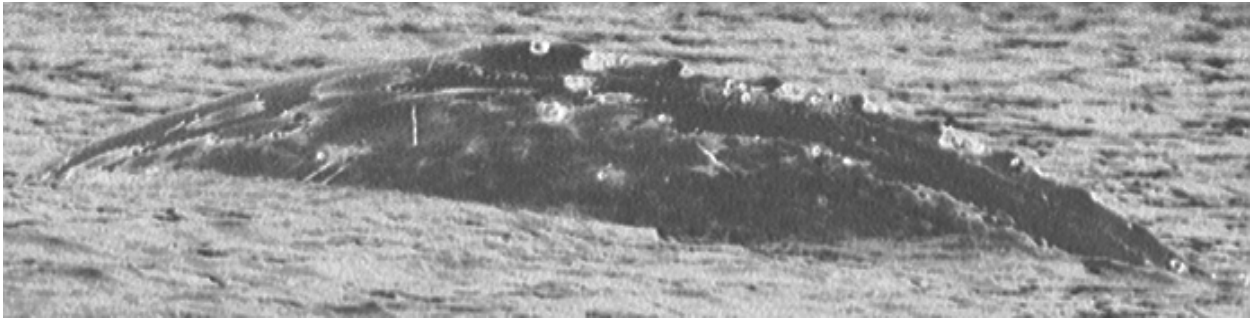
ER#251 was sighted on 9 July 1998 near Guano Rock on the northern Washington coast.

## GRAY WHALE NO. 252



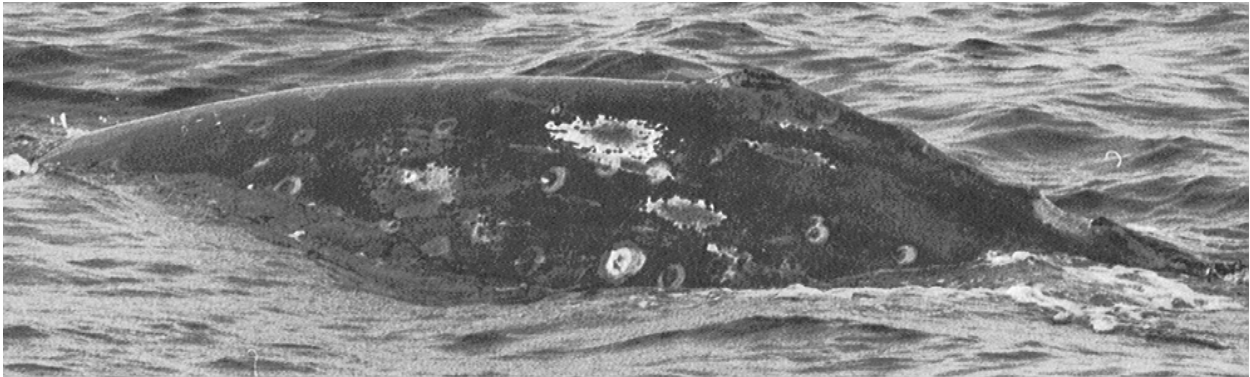
ER#252 was sighted on 5 November 1998 off the Sail River in the western Strait of Juan de Fuca.

## GRAY WHALE NO. 253



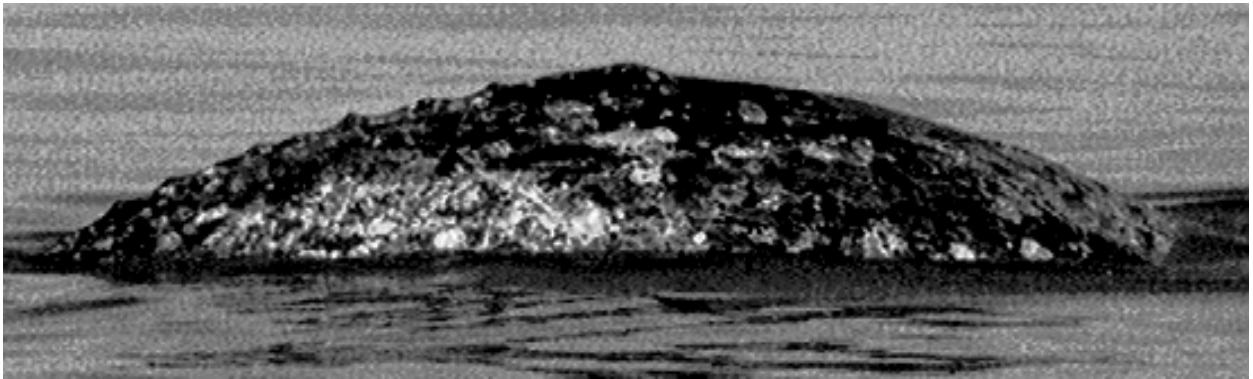
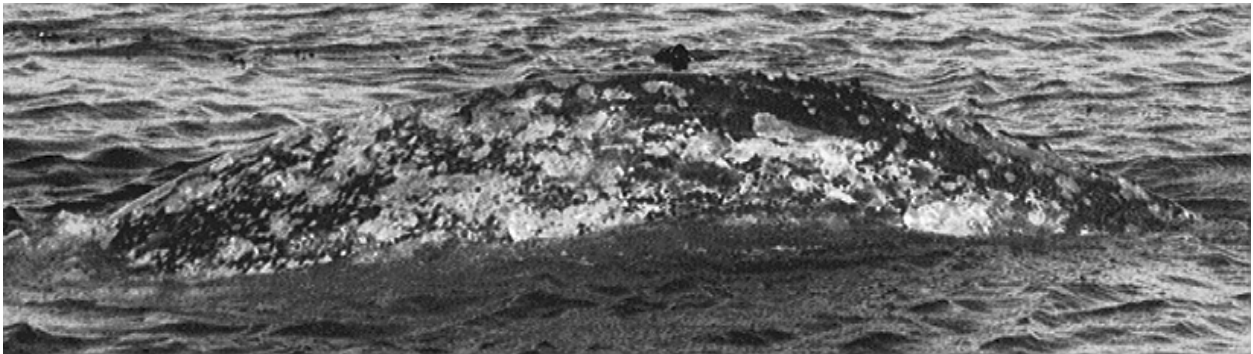
ER#253 was sighted on 31 October 1998 off the Sail River in the western Strait of Juan de Fuca.

## GRAY WHALE NO. 254



ER#254 was sighted on 1 September 1998 east of Pachena Point on southwest Vancouver Island. In 1999, it was sighted along western Vancouver Island at Perez Rocks on 7 August and 13 August, and south of Split Cape on 12 September. On 23 September 2000, it was sighted near Seabird Rocks outside Pachena Bay on southwest Vancouver Island.

## GRAY WHALE NO. 255



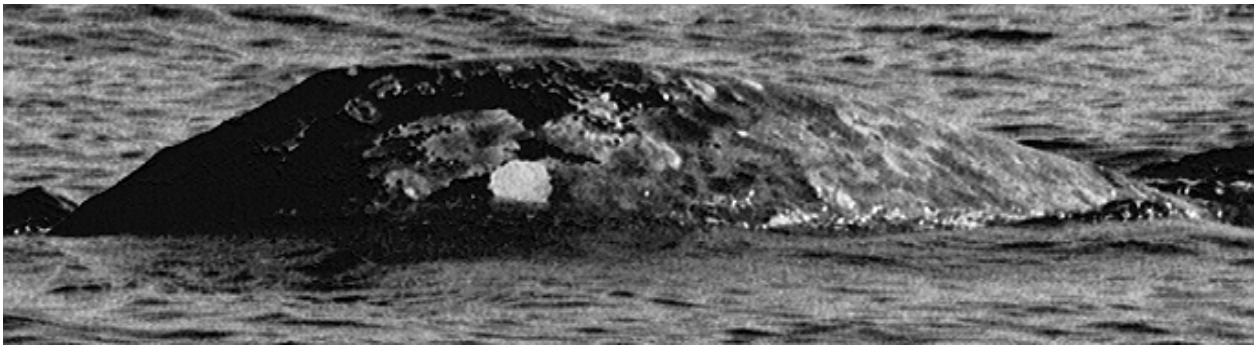
ER#255 was sighted in October 1998 in the western Strait of Juan de Fuca at Jensen Creek on the 14<sup>th</sup>, at Seal and Sail Rocks on the 15<sup>th</sup>, off Chito Beach on the 17<sup>th</sup>, near Seal Rock on the 18<sup>th</sup>, off Snow Creek on the 21<sup>st</sup>, east of Bullman Beach on the 22<sup>nd</sup>, and off Rasmussen Creek on the 28<sup>th</sup>.

## GRAY WHALE NO. 272



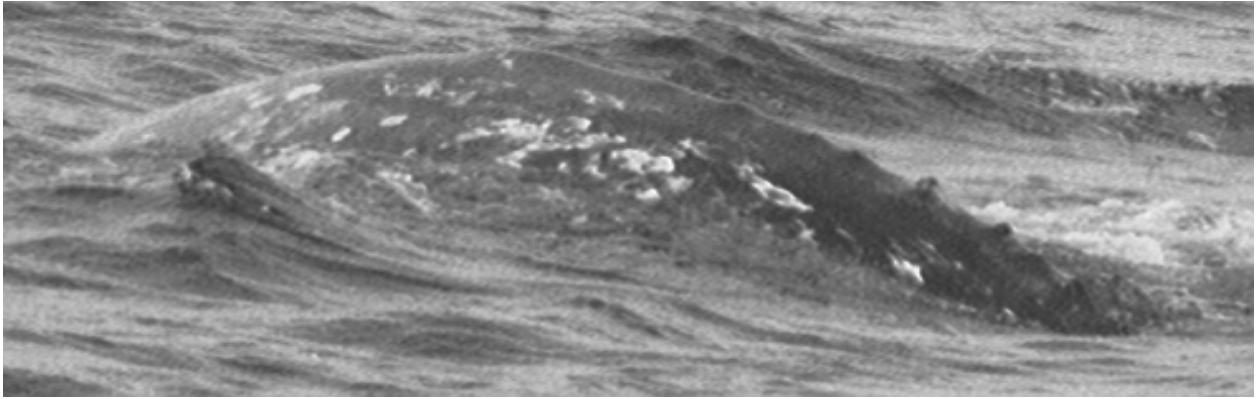
ER#272 was sighted on 31 August 1998 off Shi Shi Beach on the northern Washington coast.

## GRAY WHALE NO. 273



ER#273 was sighted in 1999 outside the Everett jetty in northern Puget Sound on 16 April and 21 May.

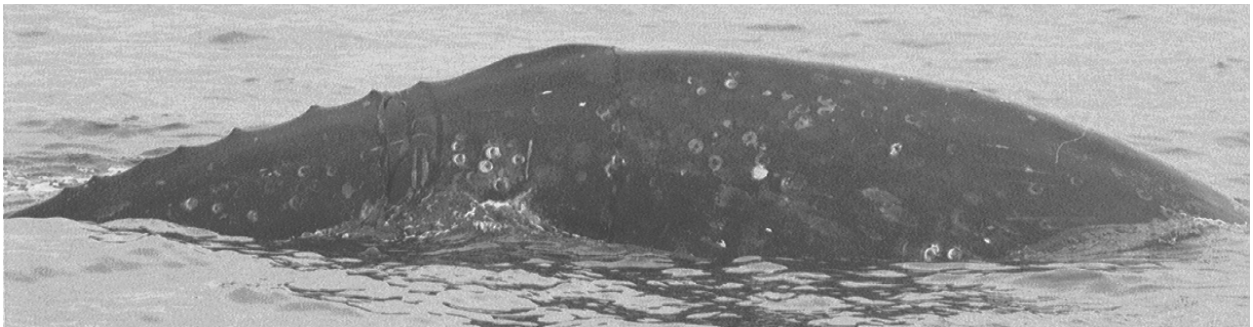
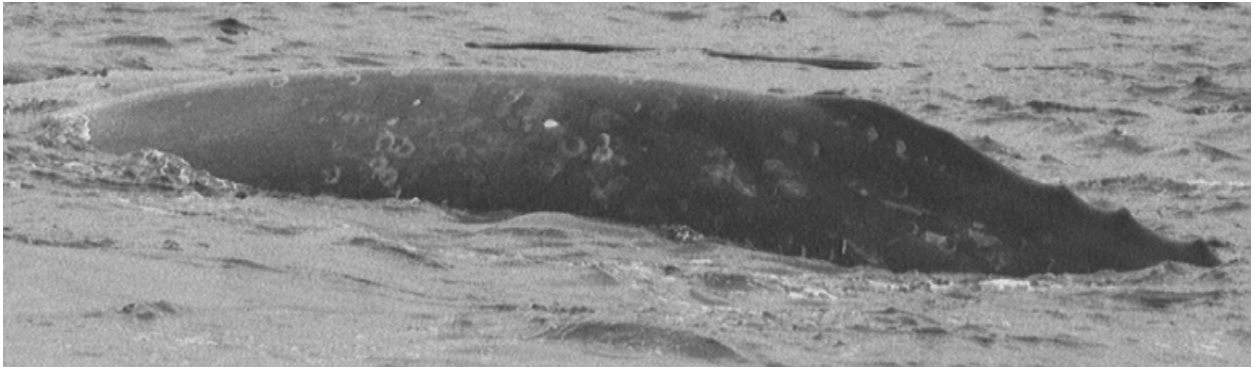
## GRAY WHALE NO. 277



ER#277 was sighted on 18 August 2000 off western Vancouver Island at Estevan Point and off the Perez Rocks.

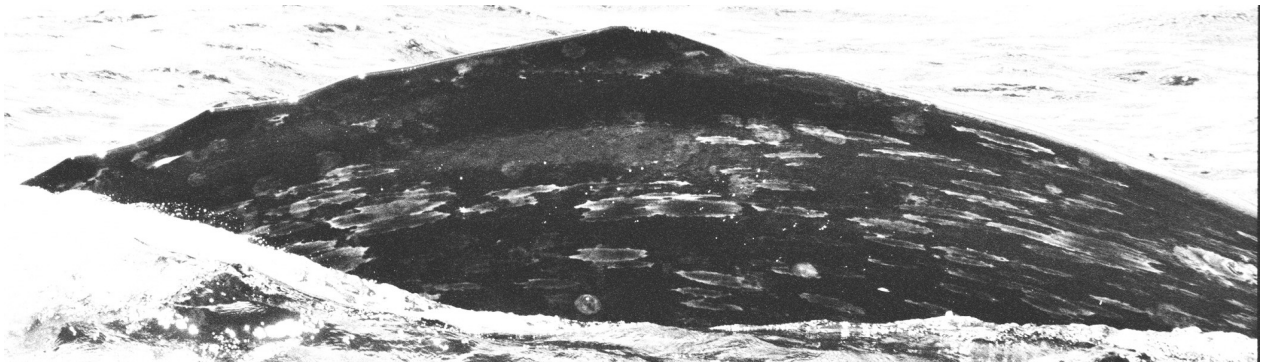


## GRAY WHALE NO. 281



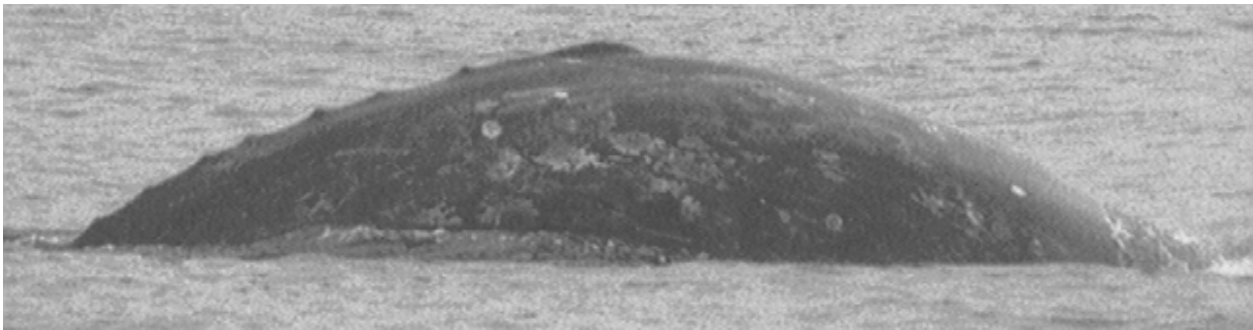
ER#281 has only been sighted off western Vancouver Island. In 1999, it was sighted off Bajo Reef and Bajo Point on 8 August and 12 August. On 20 August 2000, it was sighted around Perez Rocks.

## GRAY WHALE No. 291



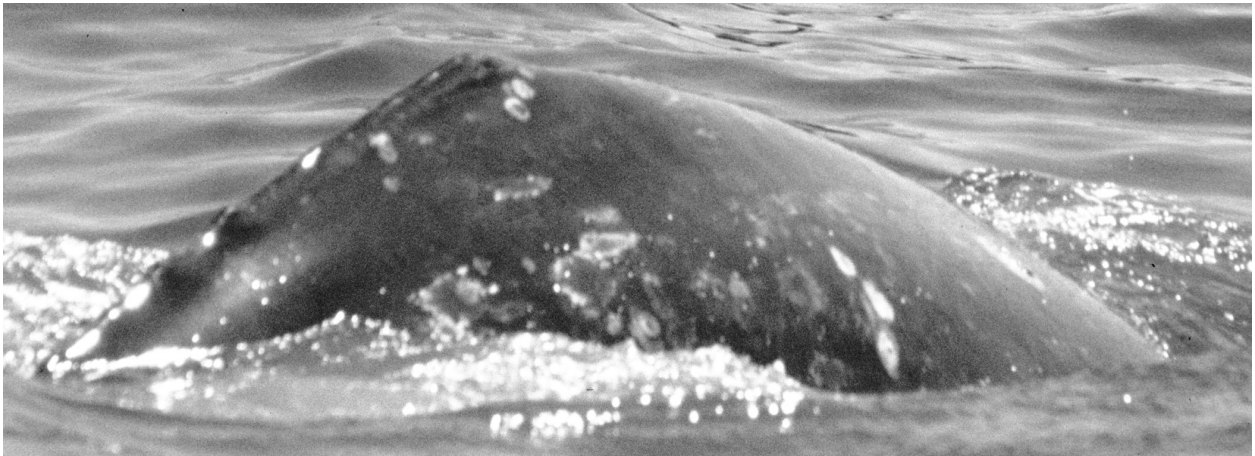
ER#291 was sighted on 25 June 2003 in the western Strait of Juan de Fuca to the east of Slant Rock and later to the west of Waadah Island.

## GRAY WHALE NO. 296



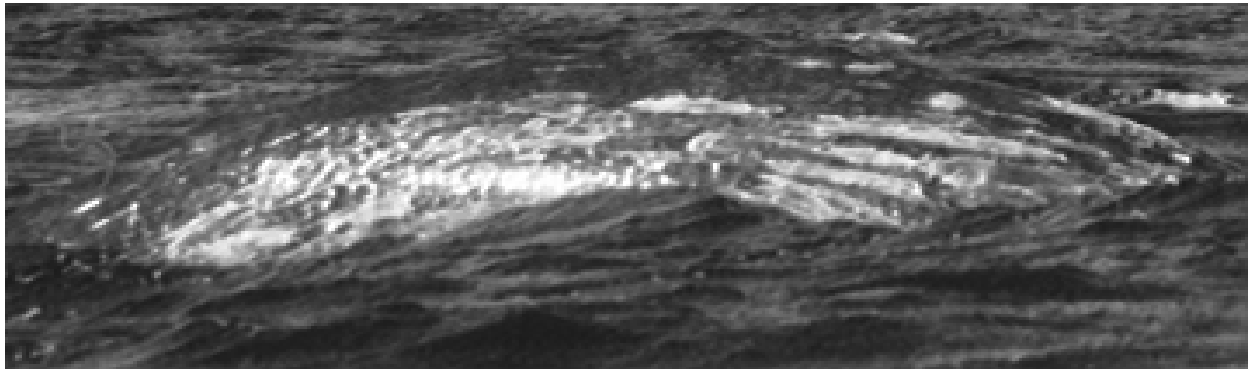
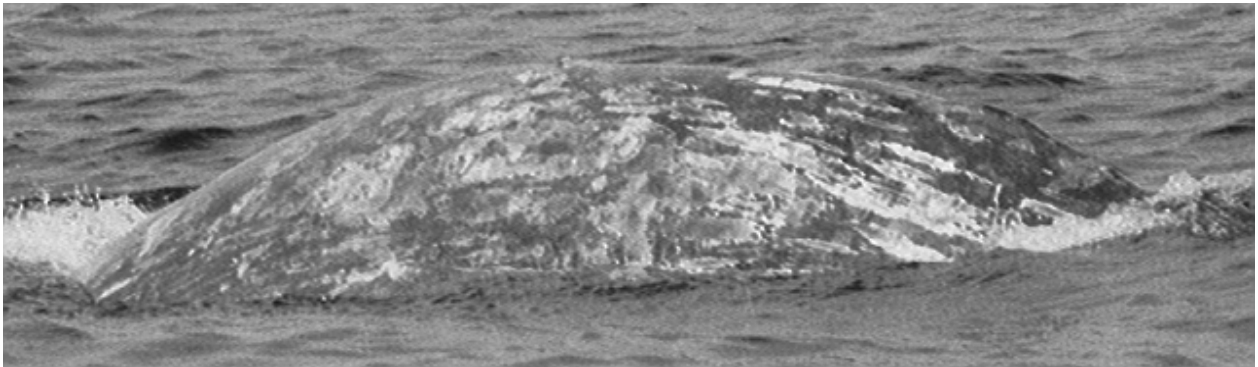
ER#296 was sighted in 1999 along western Vancouver Island at Matlahaw Point on 13 August and south of Split Cape on 12 September. Subsequent sightings occurred off the northern Washington coast. On 12 October 2000, it was sighted north of Anderson Point Reef, south of Makah Bay. In 2001, it was sighted at Bodelteh on 30 August and off Anderson Head on 6 September. On 22 August 2002, it was sighted in Makah Bay. In 2003, it was sighted off Portage Head on 24 September and at Skagway on 15 October.

GRAY WHALE No. 297



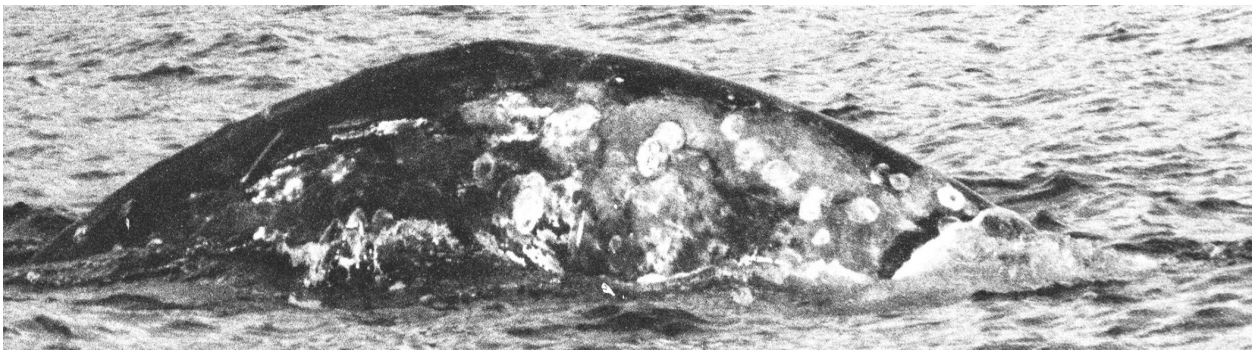
ER#297 was sighted on 21 August 2003 northeast of Father and Son off the northern Washington coast.

## GRAY WHALE NO. 300



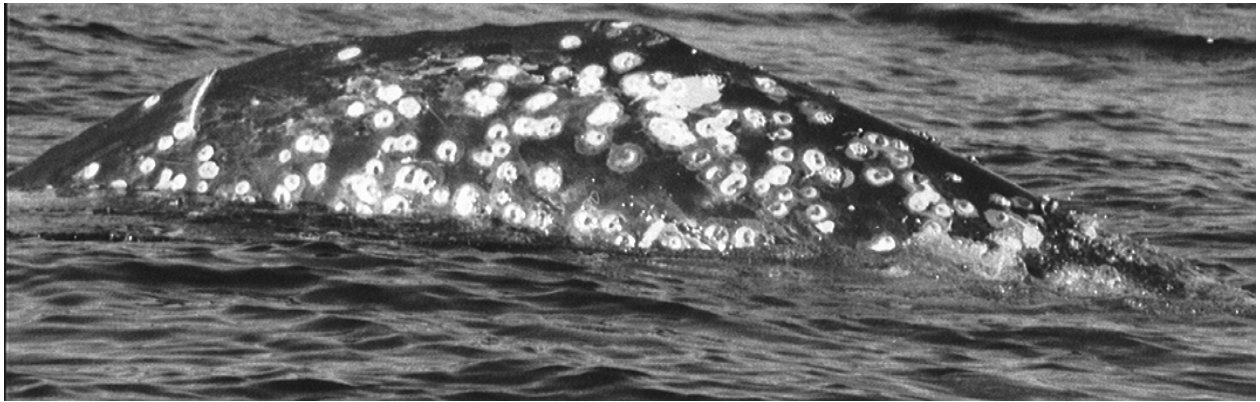
ER#300 was sighted in 1999 off western Vancouver Island at Perez Rocks on 7 August and in Barchester Bay on 11 September. In 2000, it was sighted along the southwest coast of Vancouver Island at Cape Beale on 17 August and around Seabird Rocks outside Pachena Bay on 23 September.

## GRAY WHALE No. 302



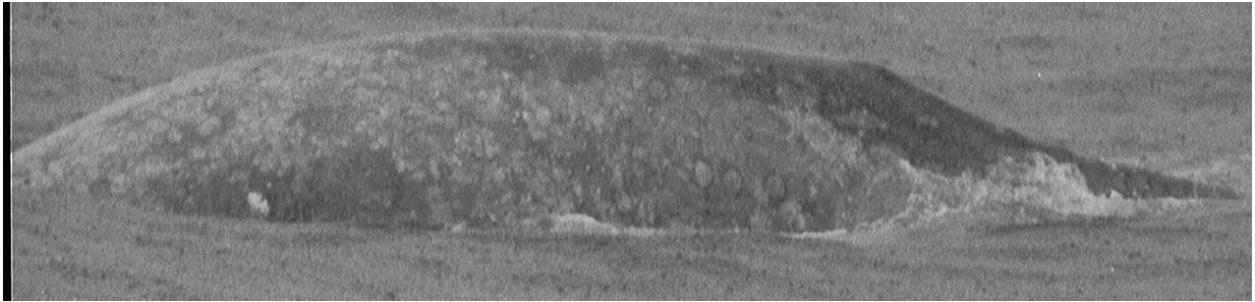
Gray whale No. 302 was sighted on 7 September 2002 south of Cow Bay off the western coast of Vancouver Island.

## GRAY WHALE NO. 304



ER#304 was sighted in 1998 along the northern Washington coast near Cooke Rock on 15 September, west of Cannonball Rock on 19 September, and between Bodelteh and Ozette Island on 21 October.

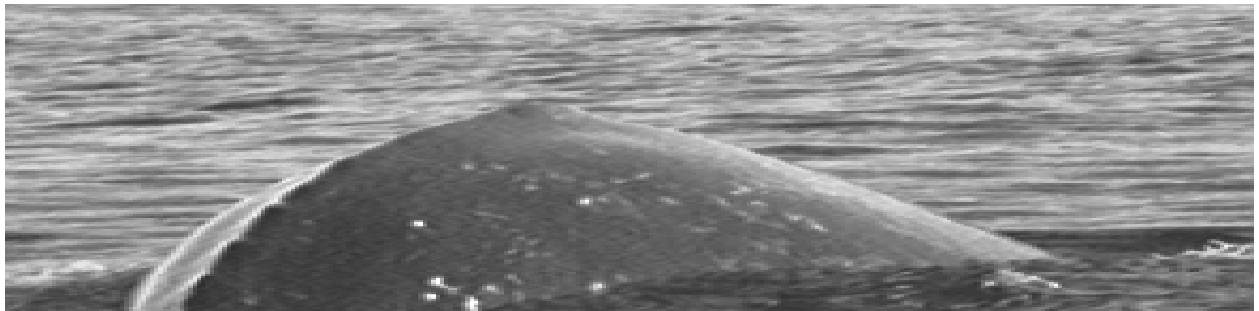
## GRAY WHALE NO. 306



ER#306 was sighted on 19 August 2000 southwest of Bajo Reef on western Vancouver Island and on 28 June 2001 at Cape Beale on the southwest coast of Vancouver Island.

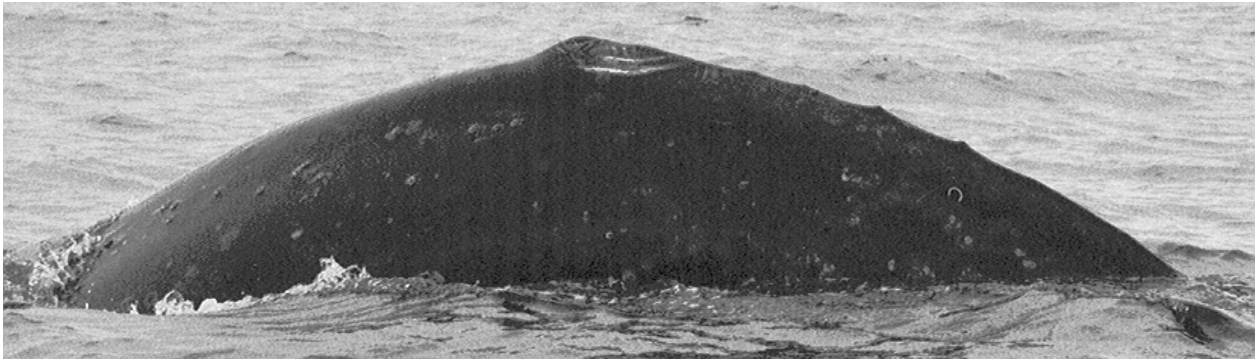


## GRAY WHALE NO. 308



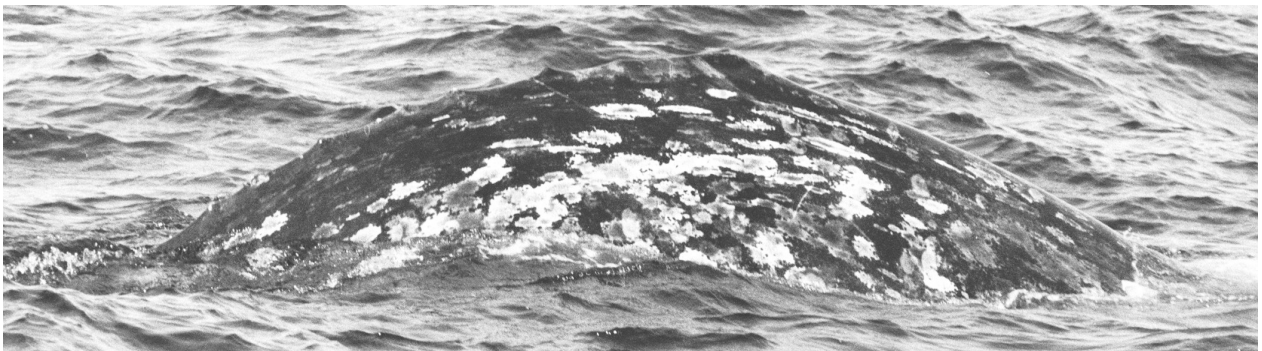
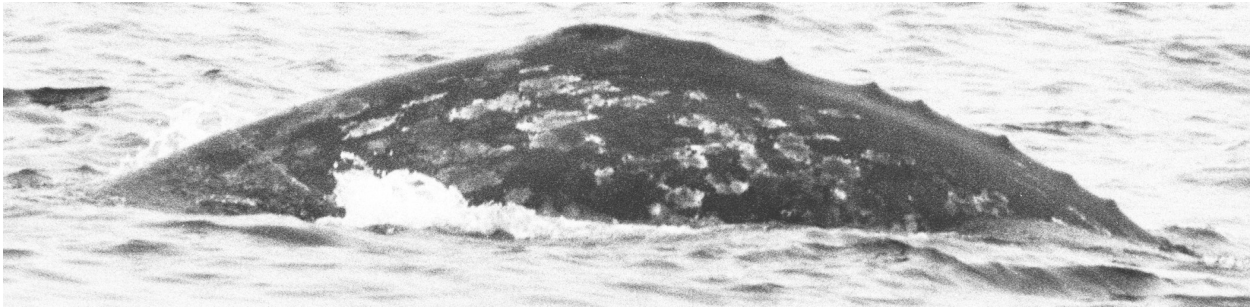
ER#308 was sighted in 2000 off western Vancouver Island at Perez Rocks on 20 August and at Bajo Reef on 22 September.

## GRAY WHALE NO. 309



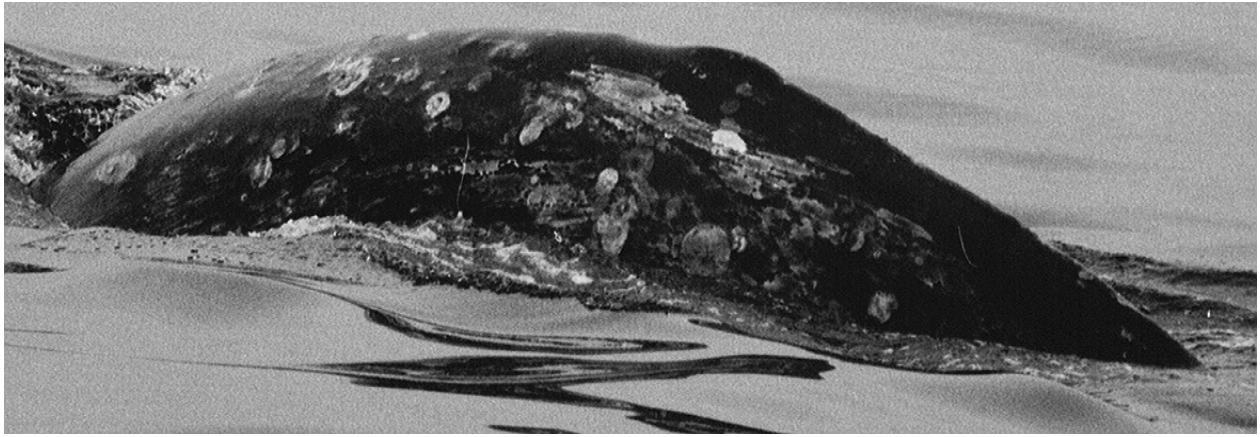
ER#309 was sighted on 13 August 1999 near Perez Rocks on western Vancouver Island.

## GRAY WHALE No. 311



ER#311 was sighted in 2001 off western Vancouver Island east of Rafael Point on 7 July and around Perez Rocks on 8 July. On 26 October 2003, it was sighted south of Castle Rock off the northern California coast.

## GRAY WHALE NO. 315



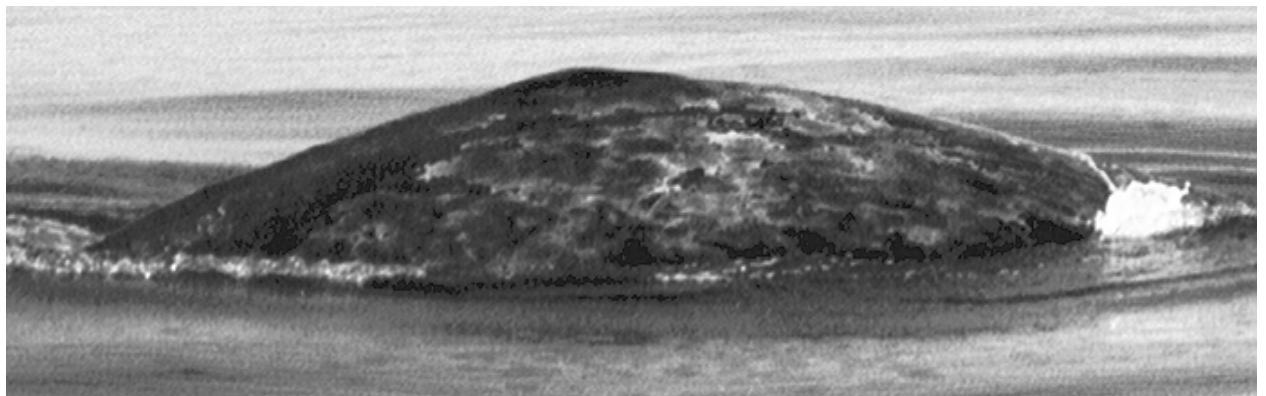
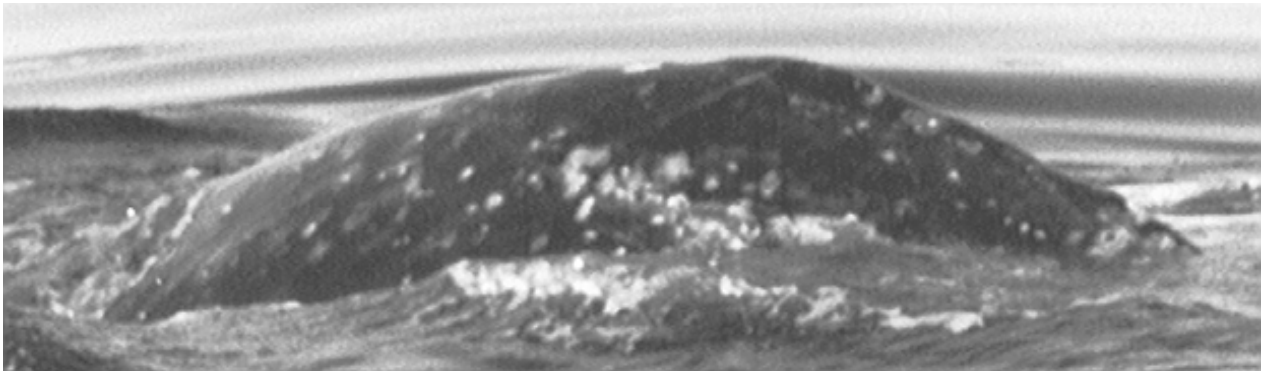
ER#315 was sighted on 11 August 1999 off Wilkie Point in northern British Columbia.

## GRAY WHALE NO. 319



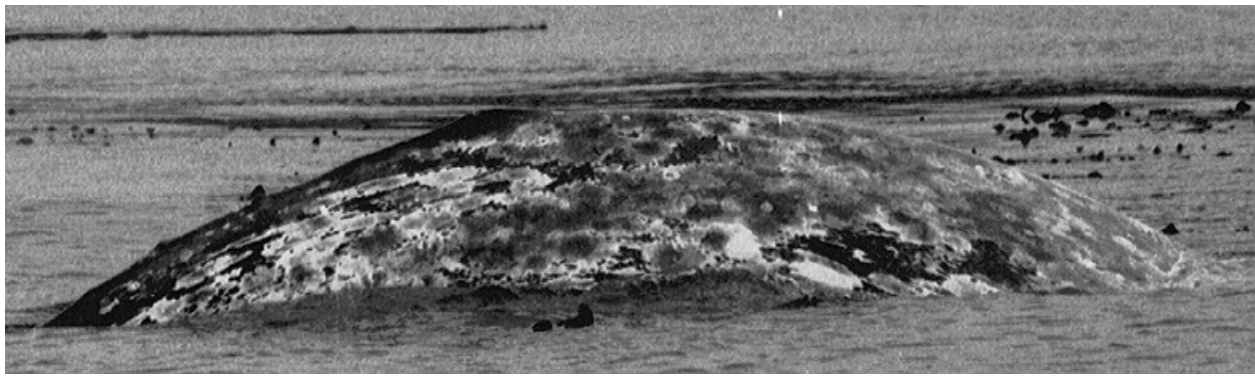
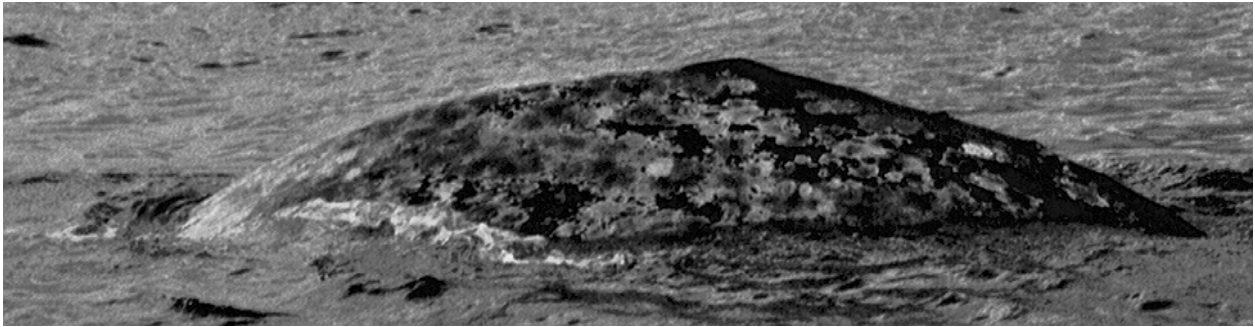
ER#319 was sighted south of Bodelteh on the northern Washington coast on 31 October 2000. In 2001, it was sighted off southwestern Vancouver Island at Cape Beale on 28 June and east of Pachena Point on 9 July. During the rest of 2001, it was sighted off the northern Washington coast southeast of White Rock on 27 July, off Greenbank and Waatch Point on 30 August, and off Portage Head on 6 September.

## GRAY WHALE NO. 320



ER#320 was sighted off western Vancouver Island at Siwash Point on 13 August 1999 and north of Perez Rocks on 22 September 2000.

## GRAY WHALE NO. 324



ER#324 was sighted in 2000 in the western Strait of Juan de Fuca at Sail Rock on 21 March, at Seal Rock on 19 April, and at Third Beach and Bullman Beach on 4 May.

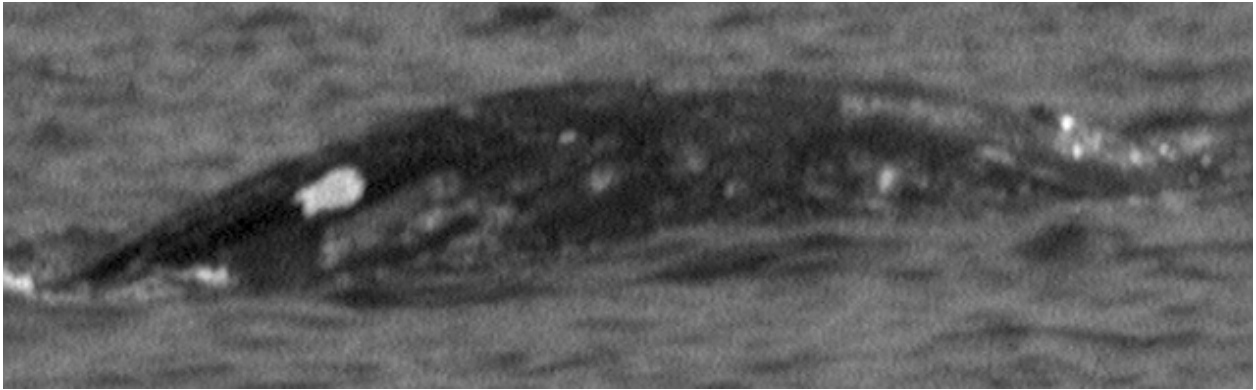
## GRAY WHALE NO. 328



ER#328 was sighted in 1999 on western Vancouver Island at Split Cape on 13 August, in Barchester Bay on 11 September, and south of Split Cape on 12 September.

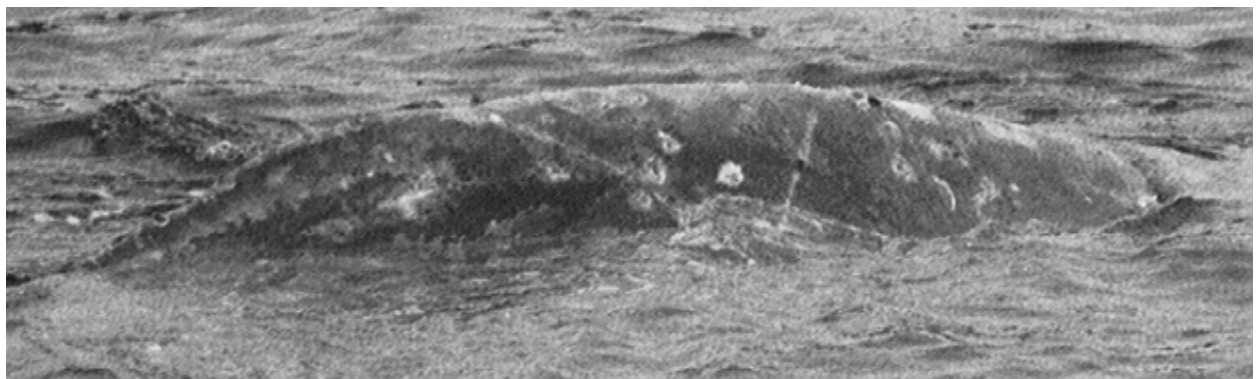


## GRAY WHALE NO. 351



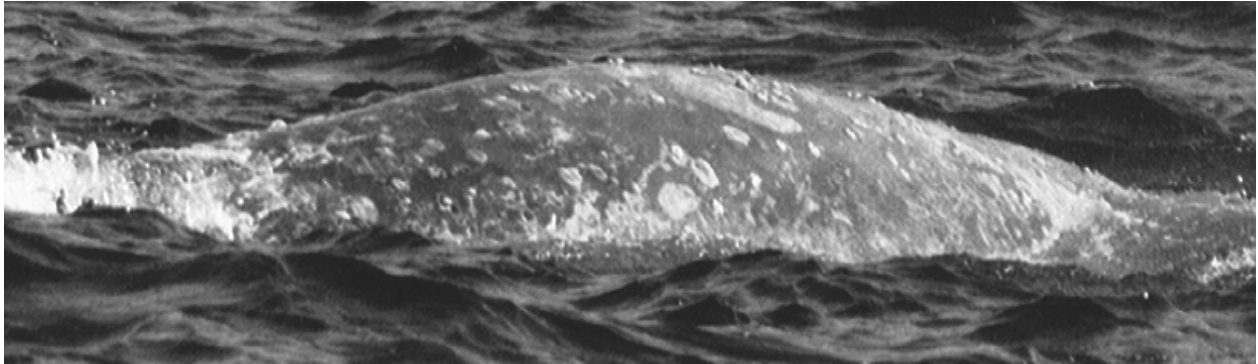
ER#351 was sighted at Bajo Point and Bajo Reef on western Vancouver Island on 8 August 1999.

## GRAY WHALE NO. 355



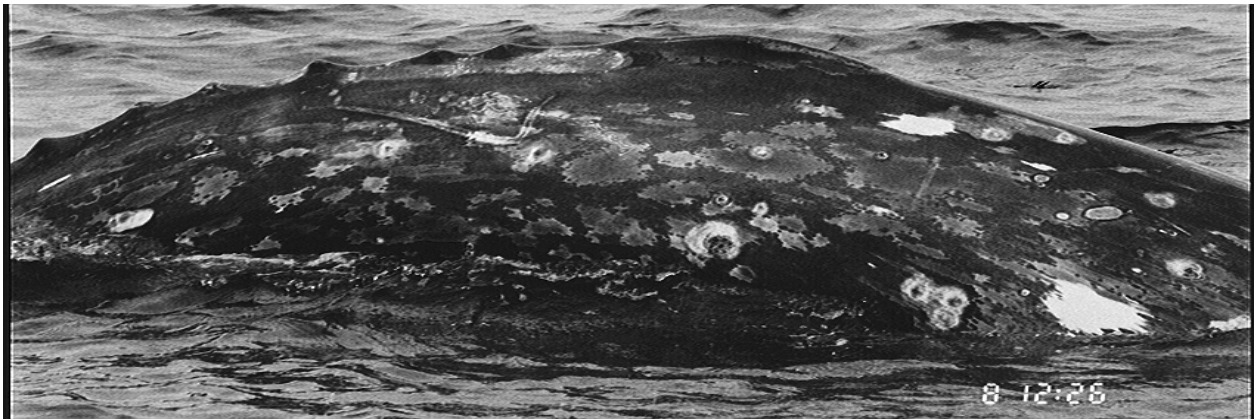
ER#355 was sighted on 28 July 1999 off Koitlah Point in the western Strait of Juan de Fuca.

## GRAY WHALE NO. 372



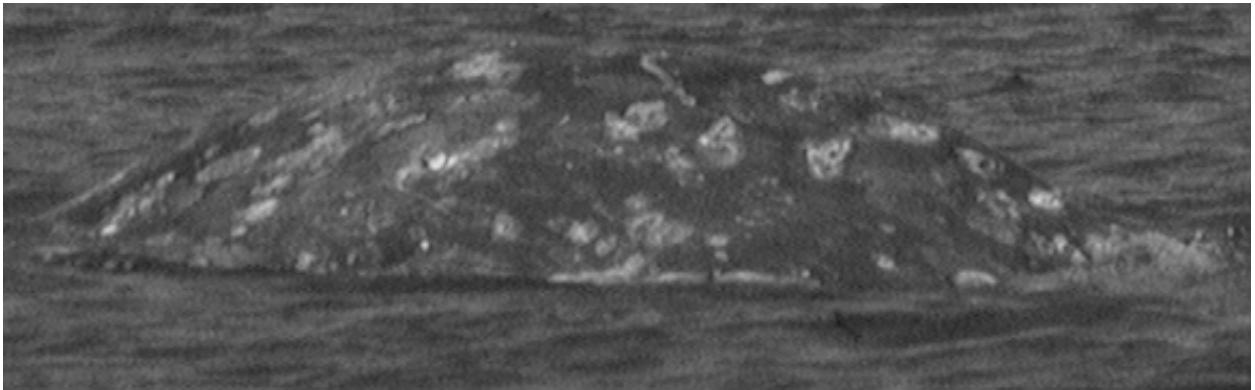
ER#372 was sighted in 1999 on the southwest coast of Vancouver Island west of Nitinat on 23 July, off Tsusiat Point and west of the Klanawa River on 4 August, and west of Pachena Point on 14 August. In October 2000, it was sighted on the northern Washington coast north of Ozette Island on the 3<sup>rd</sup>, off White Rock on the 12<sup>th</sup>, and southwest of Ozette Island on the 31<sup>st</sup>.

## GRAY WHALE NO. 382



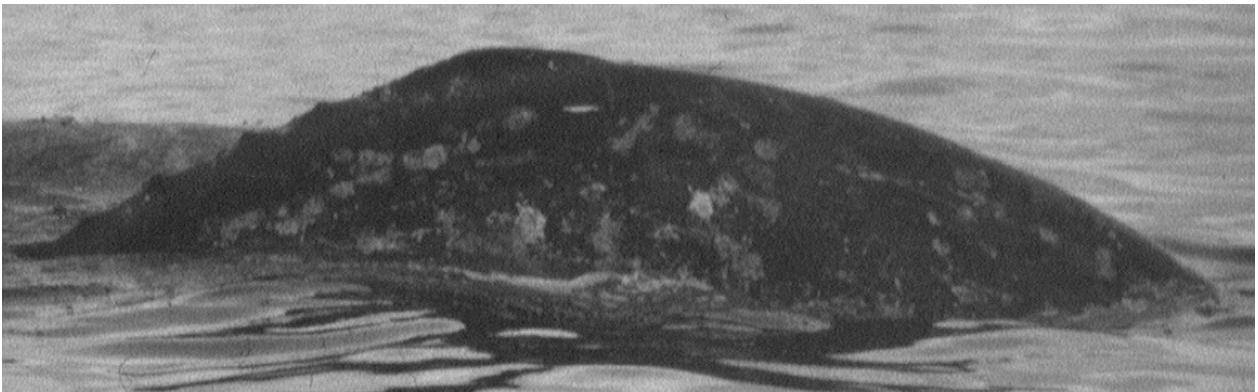
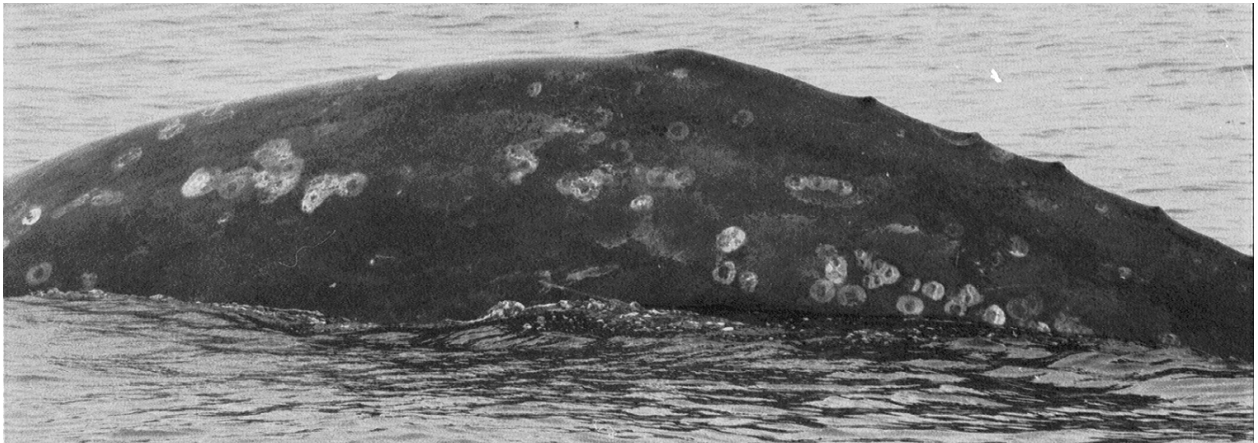
ER#382 was sighted in 1999 off western Vancouver Island at Bajo Point and Bajo Reef on 8 August and off Escalante Rocks on 12 September.

## GRAY WHALE NO. 384



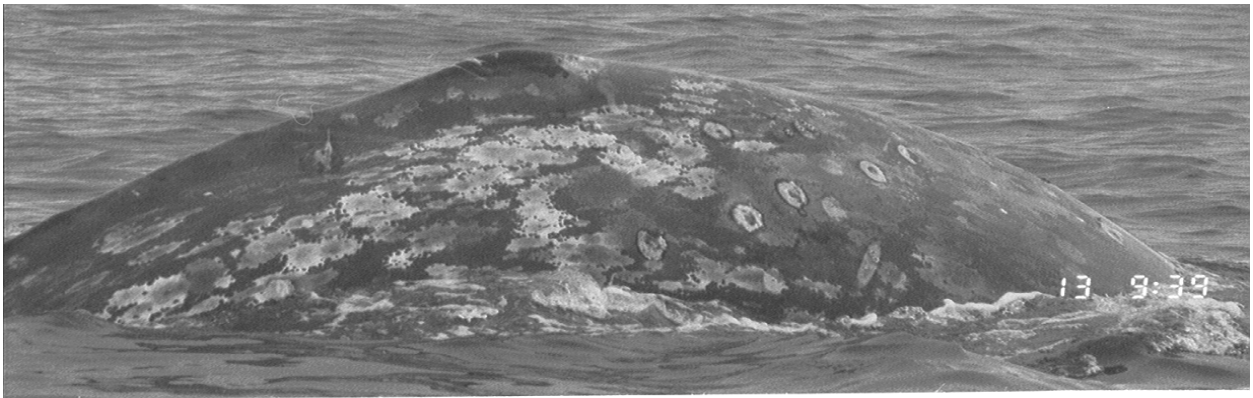
ER#384 was sighted on 8 August 1999 at Bajo Reef and Bajo Point on western Vancouver Island.

GRAY WHALE NO. 385



ER#385 was sighted on 12 August 1999 off Bajo Point on western Vancouver Island.

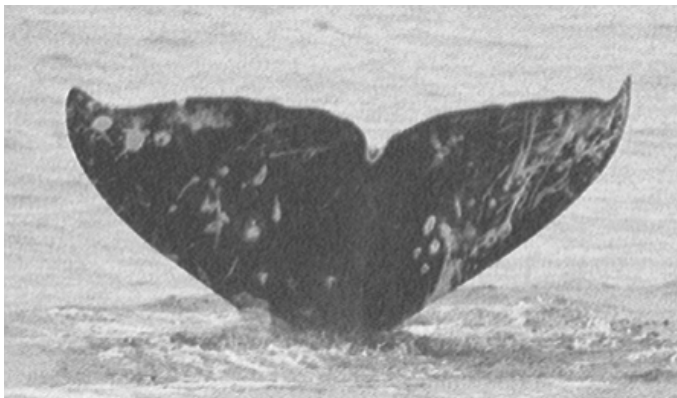
## GRAY WHALE NO. 386



ER#386 was sighted on 23 September 2000 off Starlight Rocks in Barkley Sound off western Vancouver Island.



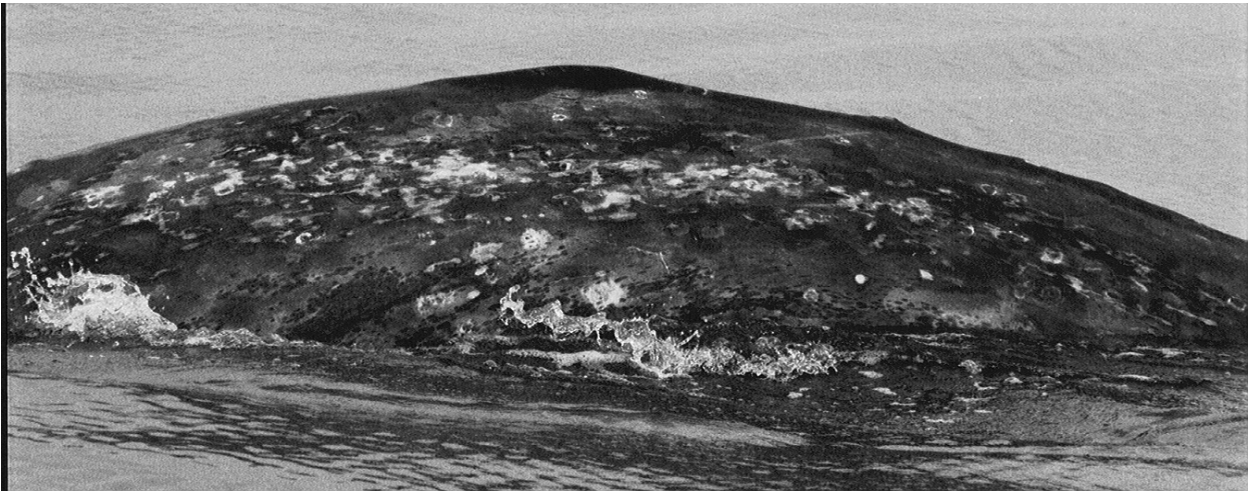
## GRAY WHALE NO. 392



ER#392 was sighted in August 1999 off Perez Rocks on western Vancouver Island on the 7<sup>th</sup> and the 13<sup>th</sup>. On 25 June 2003, it was sighted off Waatch Point and Greenbank on the northern Washington coast.

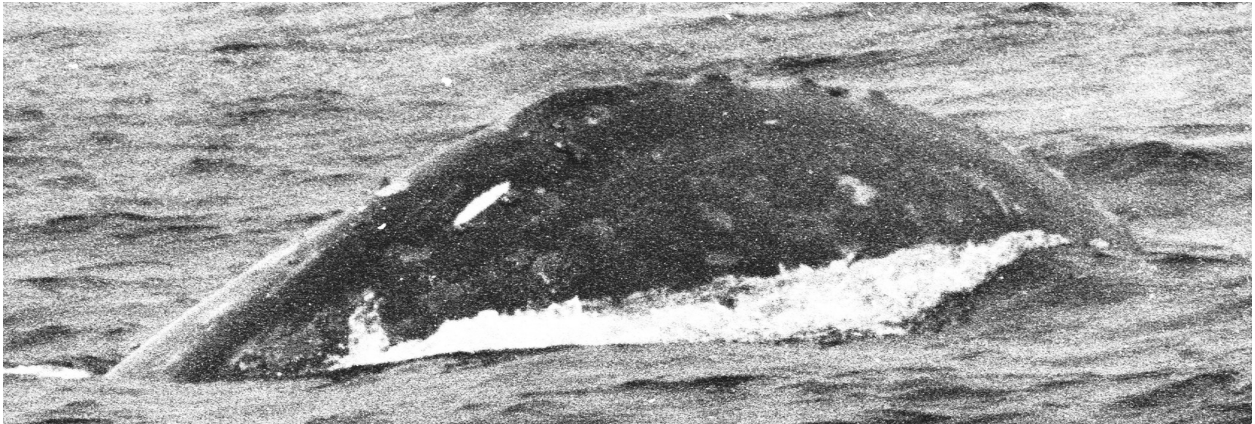


## GRAY WHALE NO. 393



ER#393 was sighted off Bajo Point on western Vancouver Island on August 8<sup>th</sup> and 12<sup>th</sup> 1999.

## GRAY WHALE NO. 396



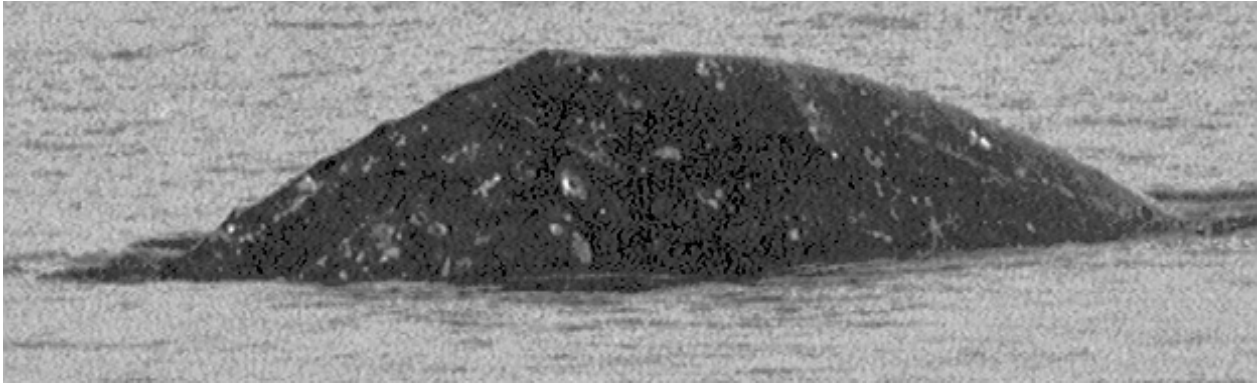
ER#396 was sighted between Gedney (Hat) Island and the Everett jetty in northern Puget Sound on 2 June 2000. On 31 October 2000, it was sighted off Slant Rock in the western Strait of Juan de Fuca. In 2001, it was sighted off the southwest coast of Vancouver Island at the Klanawa River mouth on 28 June and at Bonilla Point on 6 July. Also in 2001, it was sighted off the northern Washington coast at Greenbank and Waatch Point on 30 August, again at Greenbank on 6 September, and off Skagway Rocks on 13 September. On 22 August 2002, it was sighted off Portage Head on the northern Washington coast. In September 2003, sightings were also off the northern Washington coast at Shi Shi Beach on the 9<sup>th</sup> and at Portage Head on the 24<sup>th</sup>. On 15 October 2003, it was sighted off Third Beach in the western Strait of Juan de Fuca.

## GRAY WHALE NO. 424



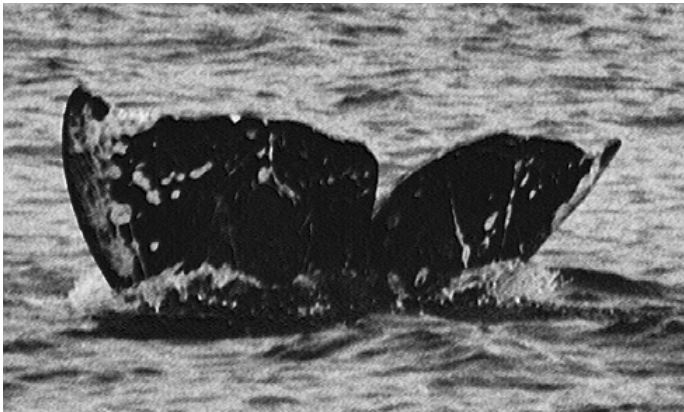
ER#424 was sighted on 13 August 1999 off Matlahaw Point on western Vancouver Island.

GRAY WHALE NO. 425



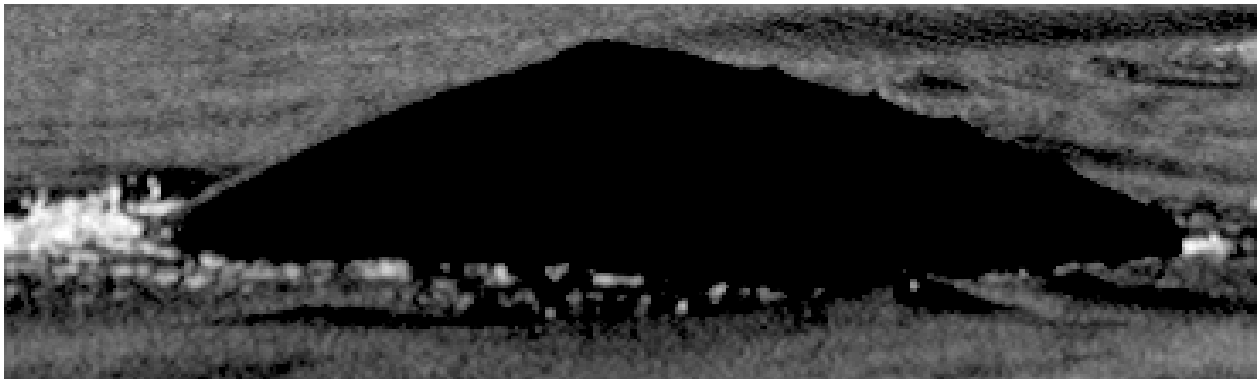
ER#425 was sighted on 21 May 1999 north of Sandy Point off Whidbey Island in northern Puget Sound.

## GRAY WHALE NO. 433



ER#433 was sighted on 8 August 1999 off Bajo Point on western Vancouver Island.

## GRAY WHALE NO. 451



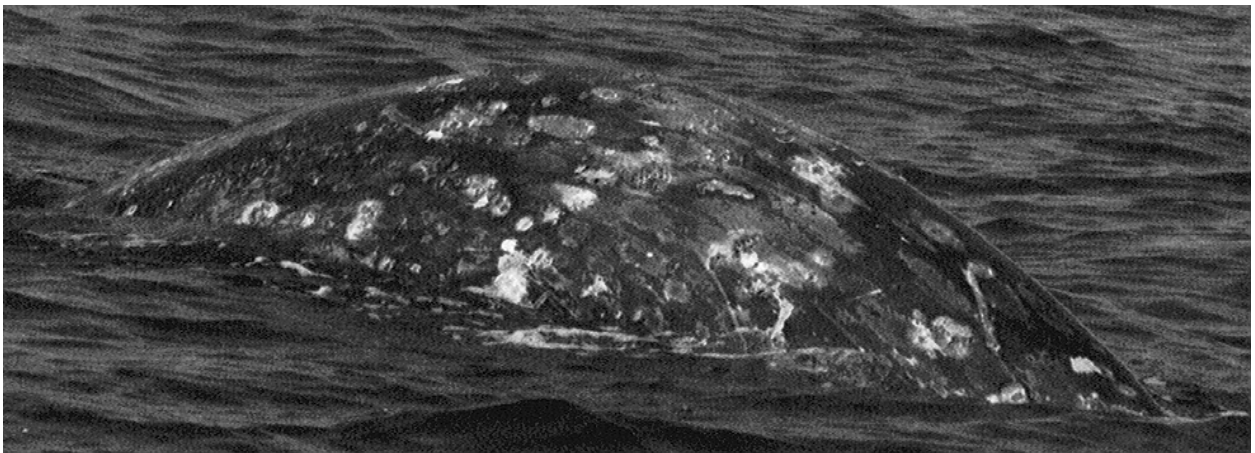
ER#451 was sighted on 8 August 1999 off Bajo Point on western Vancouver Island. On 22 September 2000, it was sighted near the same location off Bajo Reef.

## GRAY WHALE NO. 467



ER#467 was sighted on 21 May 1999 northwest of the Everett jetty in northern Puget Sound.

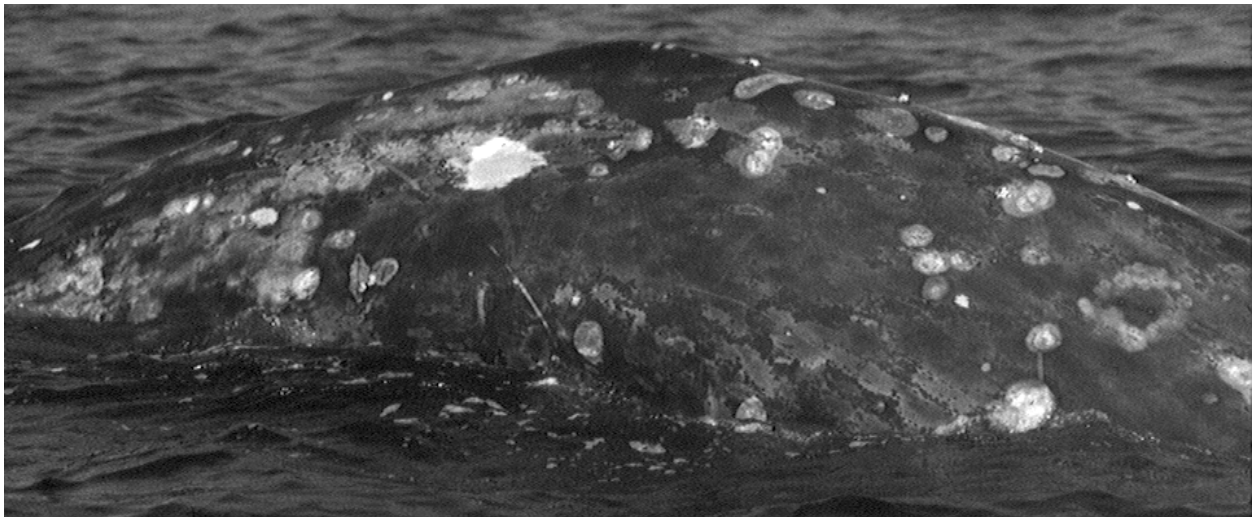
## GRAY WHALE NO. 477



ER#477 was sighted on 8 August 1999 near Bajo Point on western Vancouver Island.

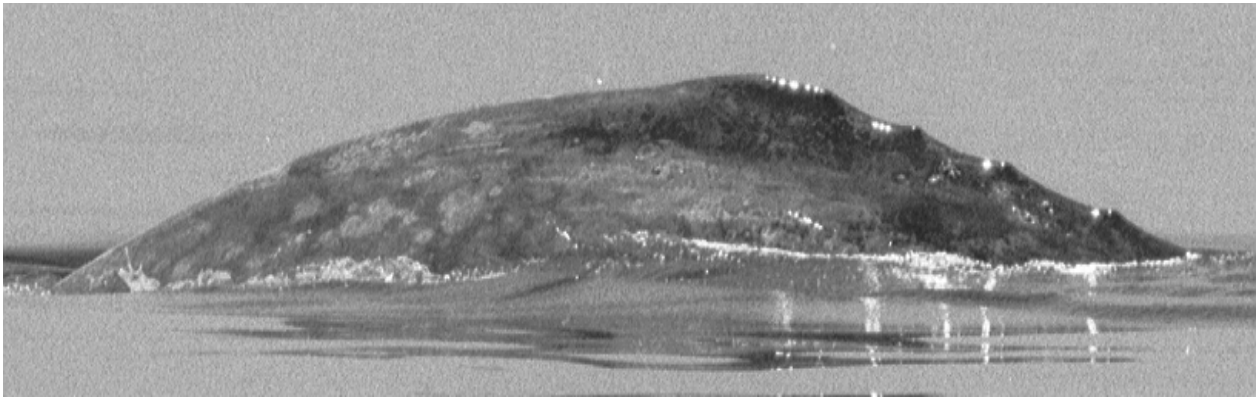


## GRAY WHALE NO. 485



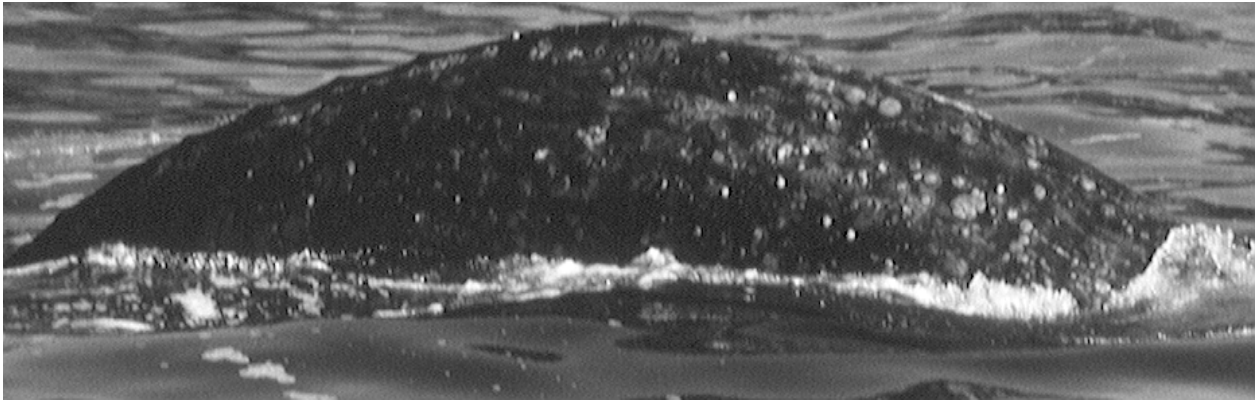
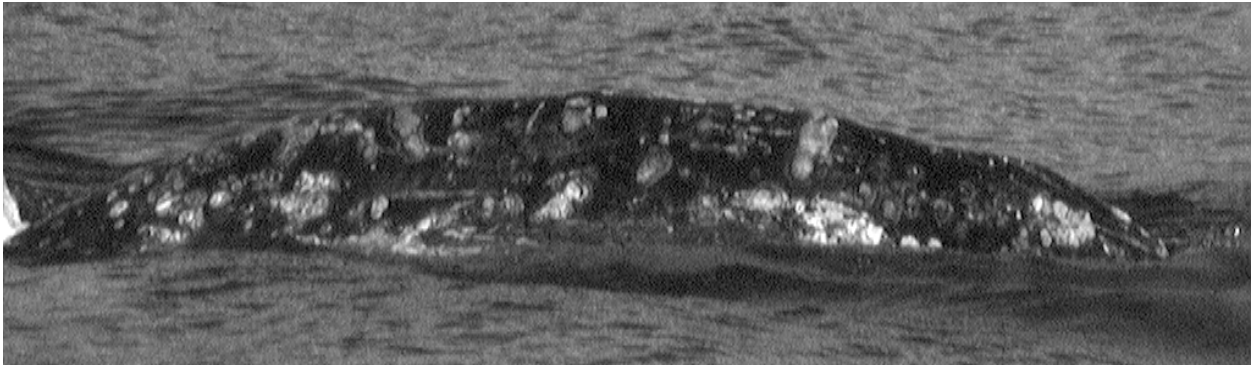
ER#485 was sighted on 8 August 1999 near Bajo Point and off Bajo Reef on western Vancouver Island.

## GRAY WHALE NO. 501



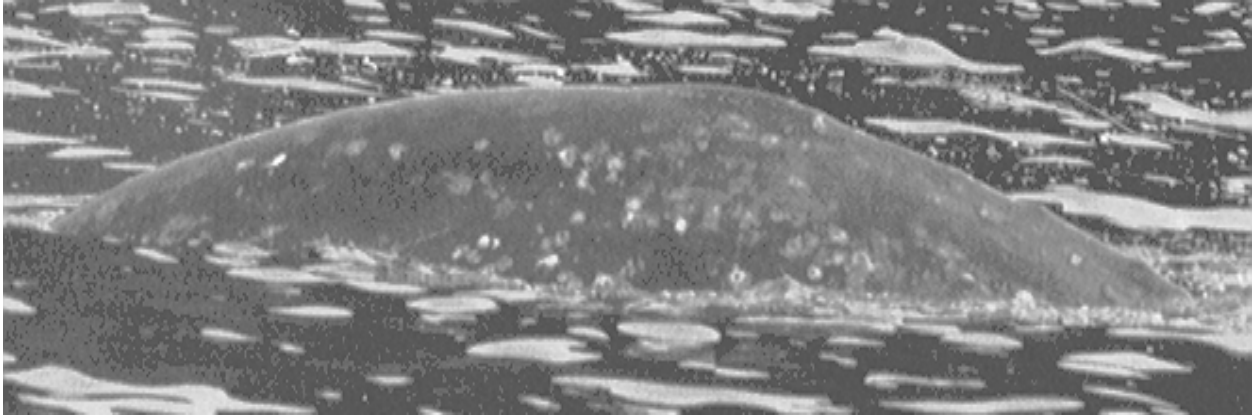
ER#501 was sighted on 2 June 2000 between Gedney (Hat) Island and the Everett jetty in northern Puget Sound.

## GRAY WHALE NO. 502



ER#502 was sighted on 22 September 2000 off Split Cape on western Vancouver Island.

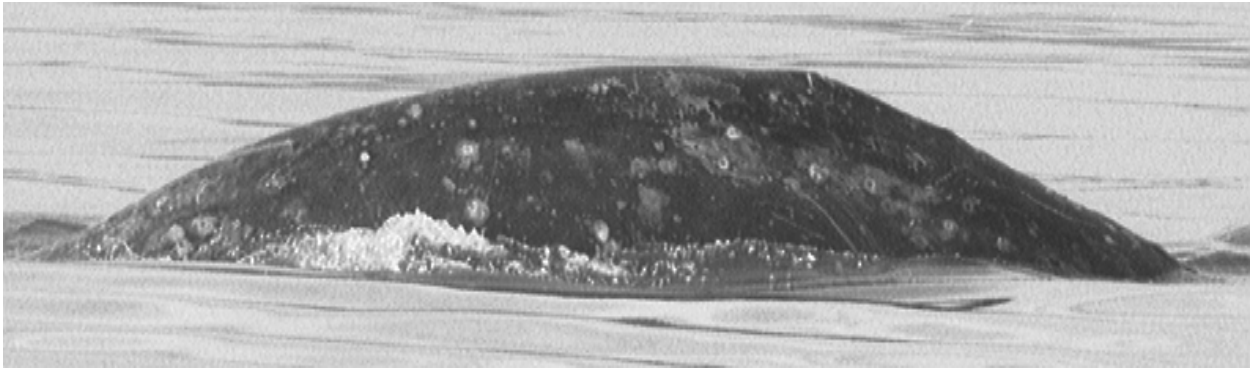
## GRAY WHALE NO. 504



ER#504 was sighted on 4 May 2000 north of Rasmussen Creek and off Bullman Beach in the western Strait of Juan de Fuca.



## GRAY WHALE NO. 505



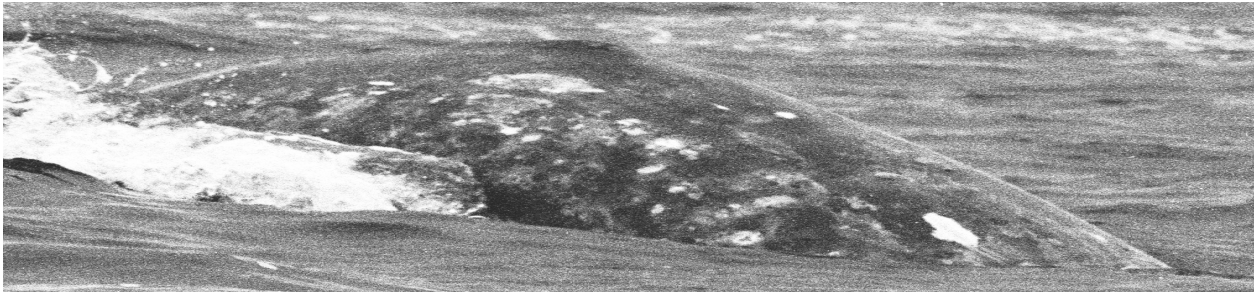
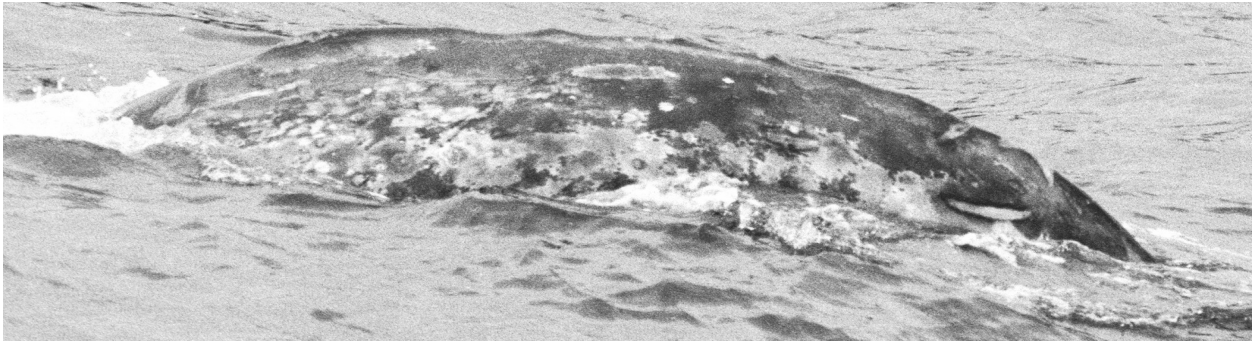
ER#505 was sighted on 2 June 2000 between Gedney (Hat) Island and the Everett jetty in northern Puget Sound.

## GRAY WHALE NO. 506



ER#506 was sighted on 22 September 2000 north of Perez Rocks on western Vancouver Island.

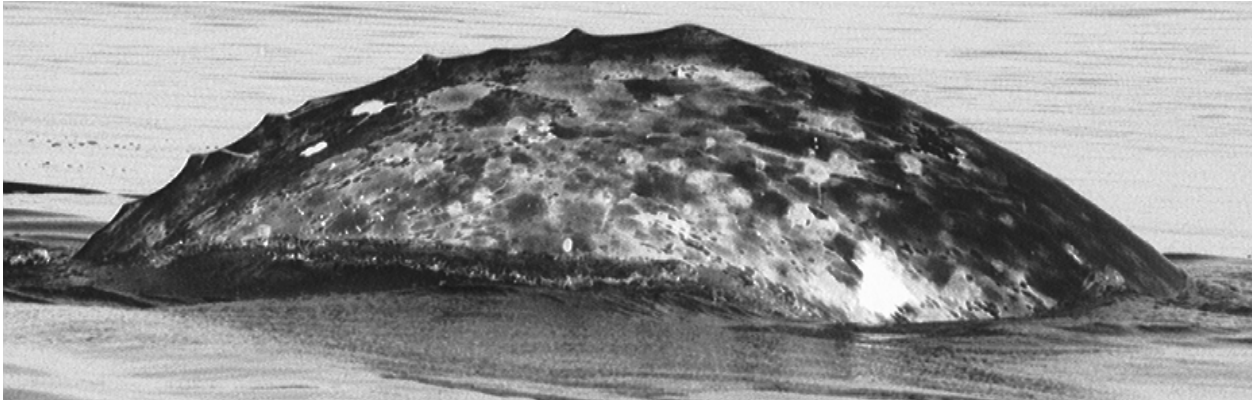
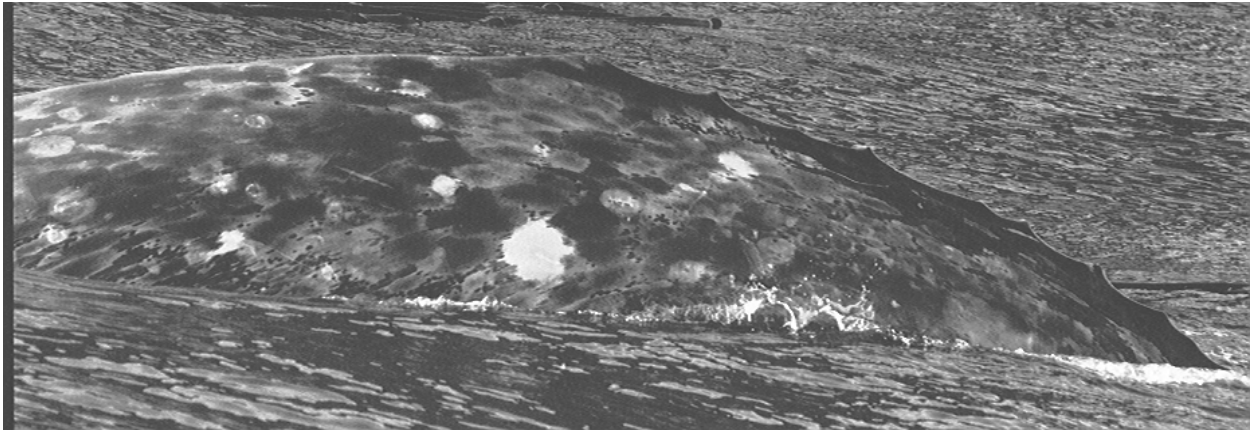
## GRAY WHALE No. 507



ER#507 was sighted off the northern Washington coast in 2001 southeast of Strawberry Rock outside Makah Bay on 30 August and off Anderson Head on 6 September.

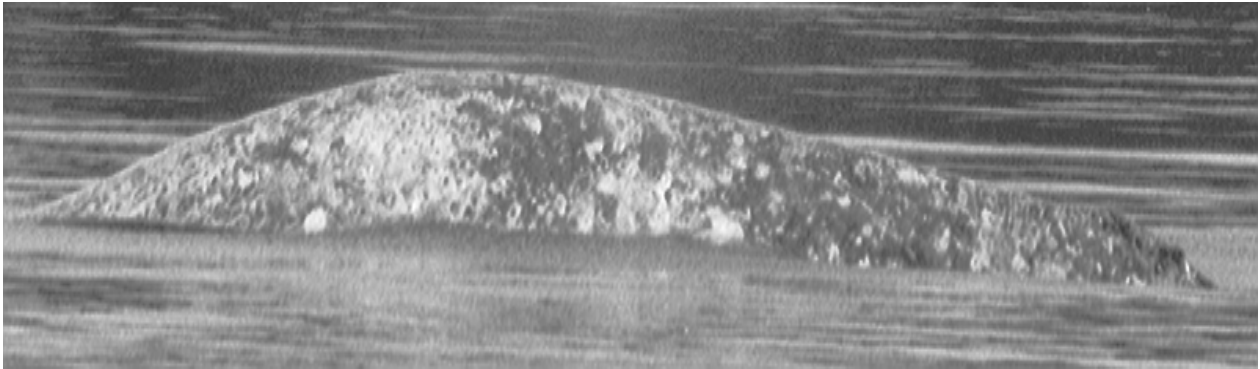


## GRAY WHALE NO. 508



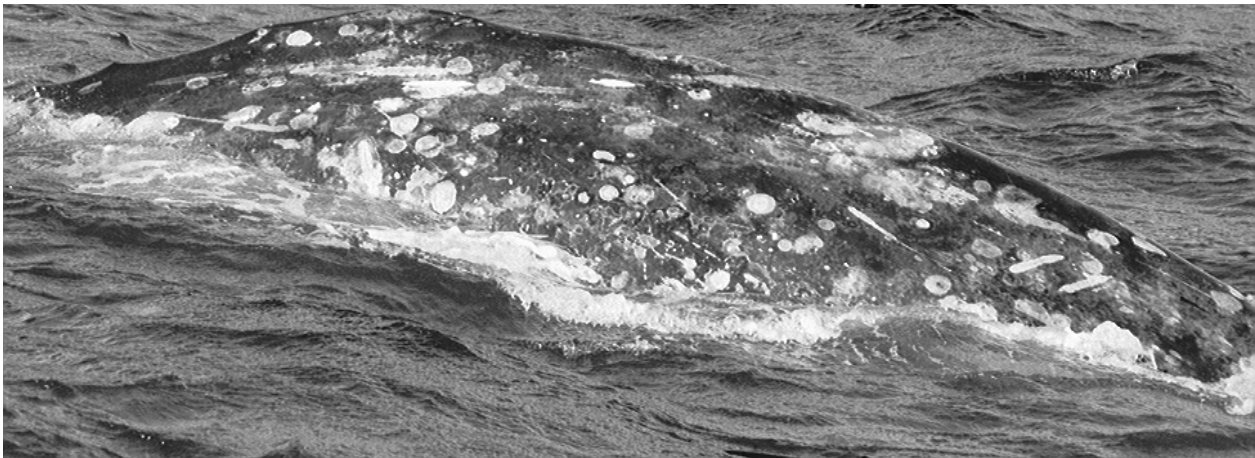
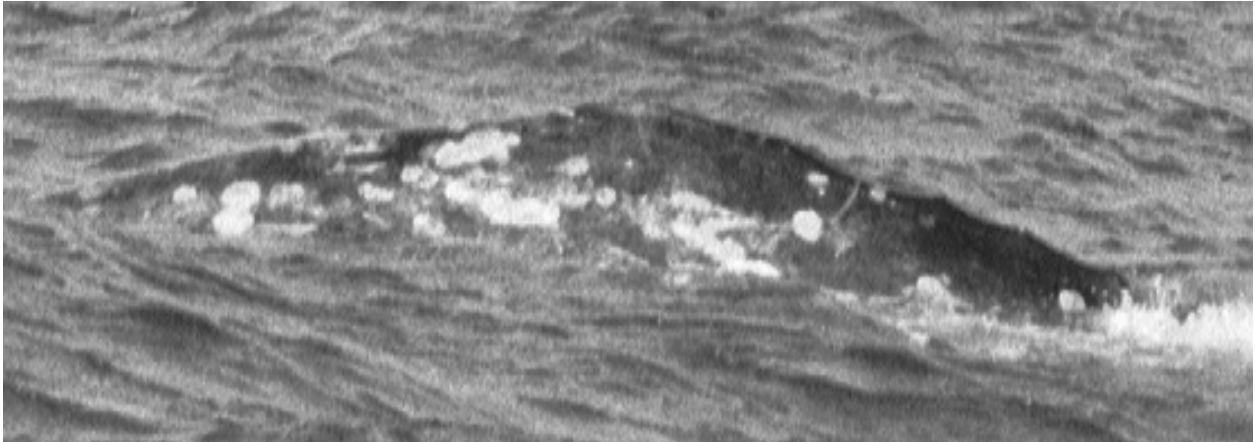
ER#508 was sighted in 2000 in the western Strait of Juan de Fuca around the Green Buoy outside Neah Bay on 18 September and between Sail Rock and the Sail River mouth on 3 October and 11 October.

## GRAY WHALE NO. 509



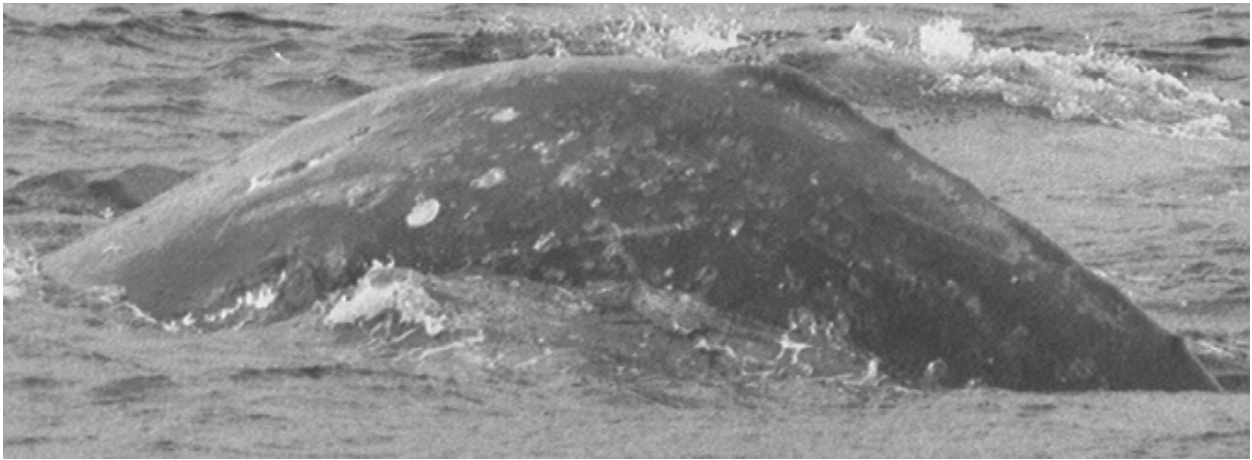
ER#509 was sighted on 2 June 2000 between Gedney (Hat) Island and the Everett jetty in northern Puget Sound.

## GRAY WHALE NO. 510



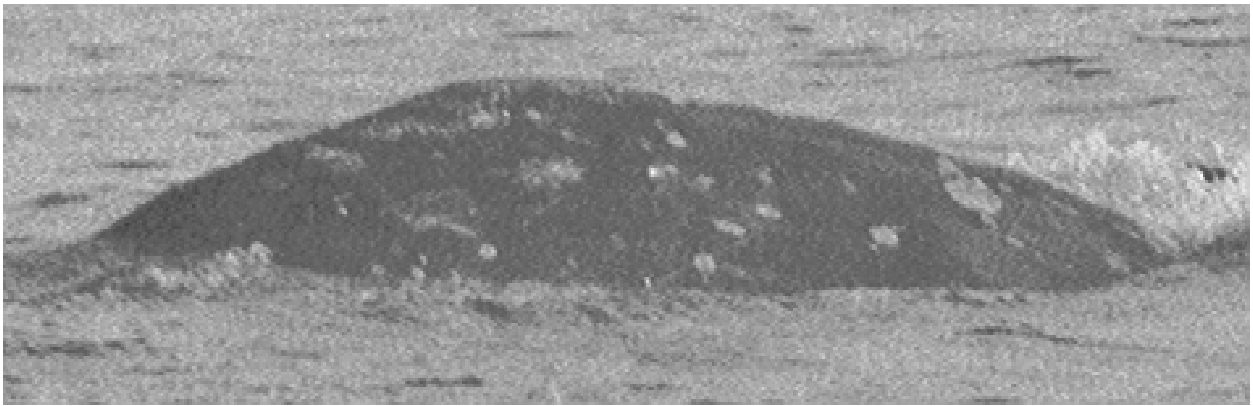
ER#510 has only been sighted off the northern Washington coast. In 2000, it was sighted on the north side of Anderson Point Reef on 12 October and southwest of Ozette Island on 31 October. On 30 August 2001, it was sighted southeast of Strawberry Rock. On 21 August 2002, it was sighted east of White Rock and off Sand Point.

## GRAY WHALE NO. 511



ER#511 was sighted on 20 August 2000 off Perez Rocks on western Vancouver Island.

## GRAY WHALE NO. 514



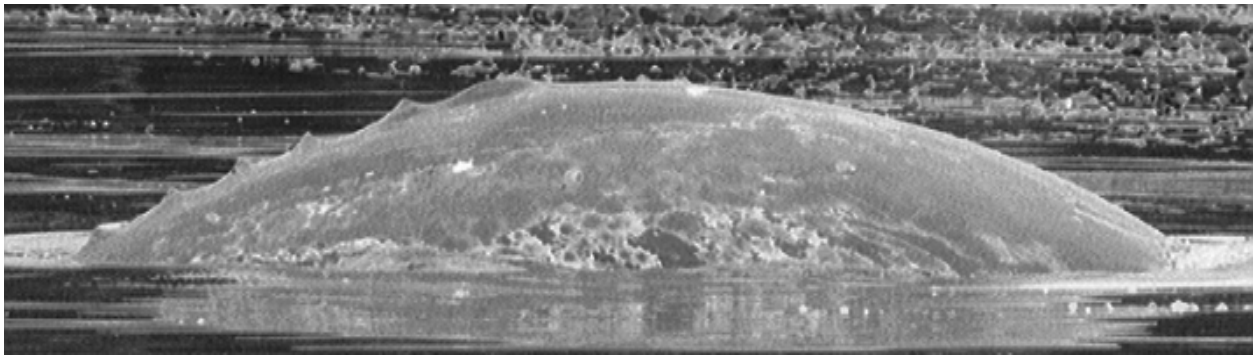
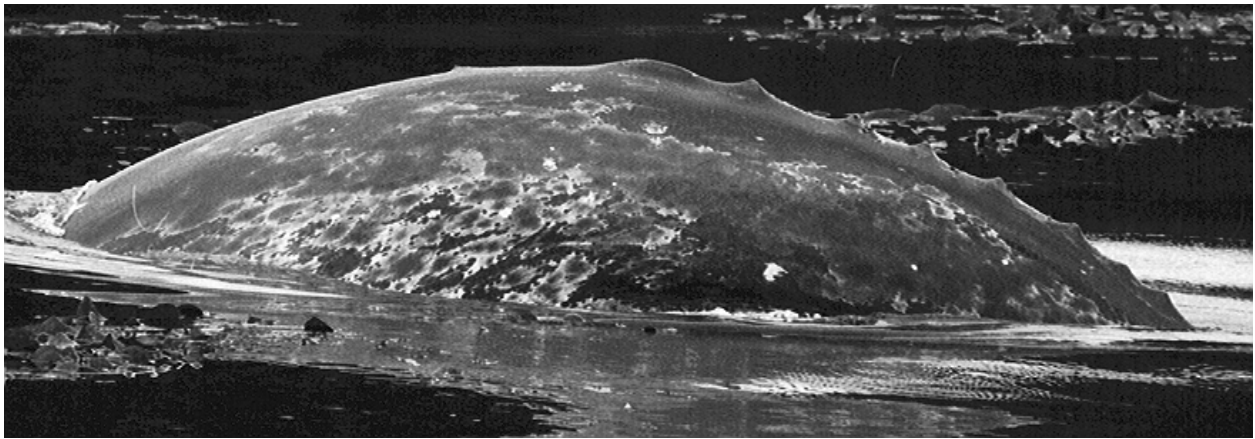
ER#514 was sighted on 19 August 2000 at the west end of Bajo Reef on western Vancouver Island.

## GRAY WHALE NO. 515



ER#515 was sighted in 2000 in the western Strait of Juan de Fuca east of Snow Creek on 30 May and southwest of Waadah Island on 7 June. In 2001, it was sighted off the northern Washington coast off Waatch Point on 30 August and west of Ozette Island on 6 September.

## GRAY WHALE NO. 516



ER#516 was sighted in 2000 in the western Strait of Juan de Fuca at Third Beach on 18 July and near Sail Rock and the Sail River on 3 October.

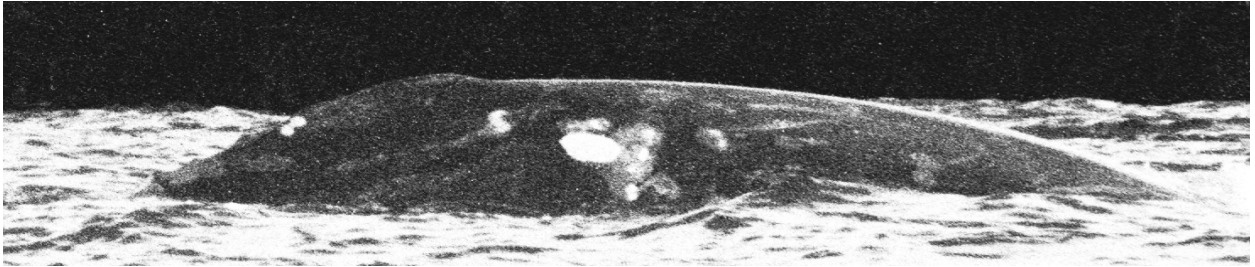
## GRAY WHALE NO. 518



ER#518 was sighted on 19 August 2000 at the west end of Bajo Reef off western Vancouver Island.



## GRAY WHALE No. 525



Gray whale No. 525 was sighted on the western coast of Vancouver Island north of Perez Rocks on 2 September 2000 and off Starlight Reef in Barkley Sound on 7 September 2002.

## GRAY WHALE NO. 528



ER#528 was sighted on 20 August 2000 off Perez Rocks on western Vancouver Island.

## GRAY WHALE NO. 529



ER#529 was sighted east of the Nitinat Buoy off southwest Vancouver Island on 23 September 2000 and on 6 July 2001. On 10 August 2001, it was sighted south of Perez Rocks off western Vancouver Island.

## GRAY WHALE NO. 530



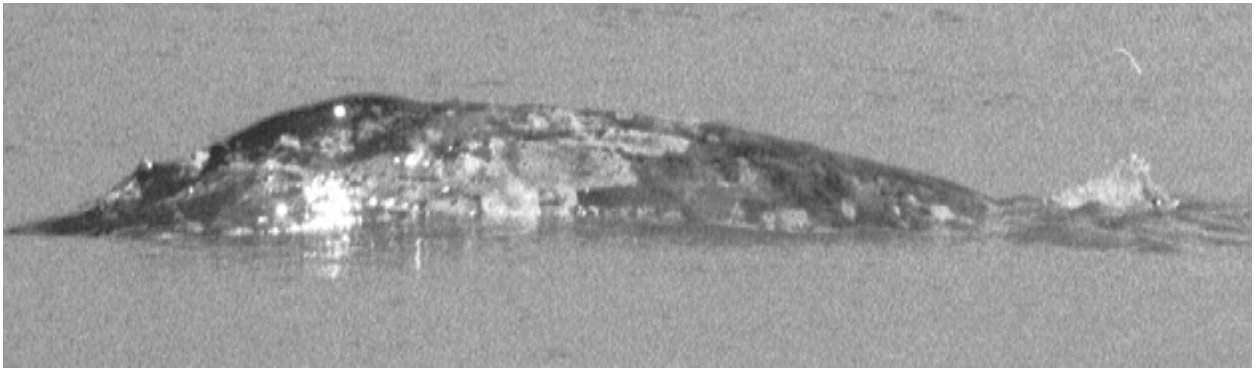
ER#530 was sighted on 23 May 2000 off Duck Point on the northern Washington coast.

## GRAY WHALE NO. 536



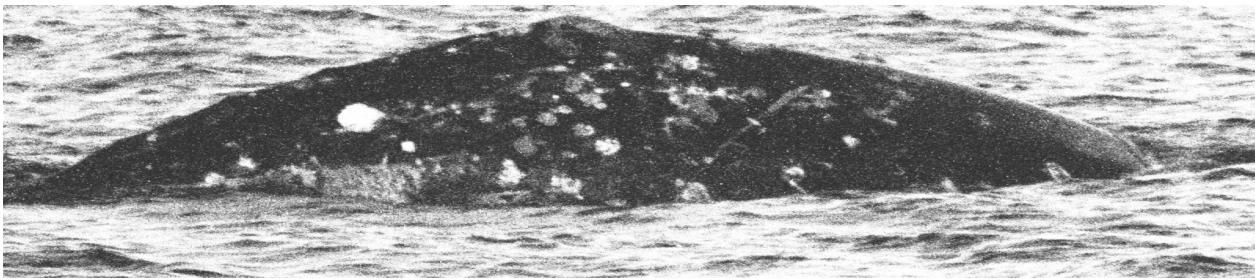
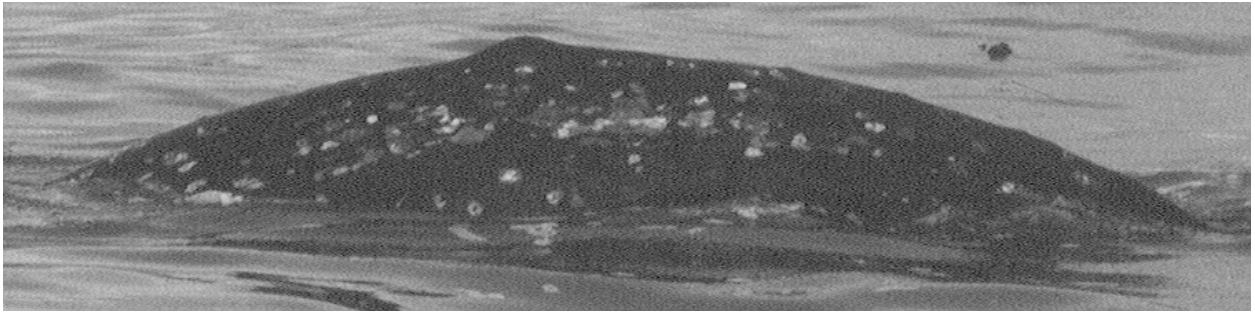
ER#536 was sighted on 22 September 2000 north of Perez Rocks off western Vancouver Island.

## GRAY WHALE NO. 539



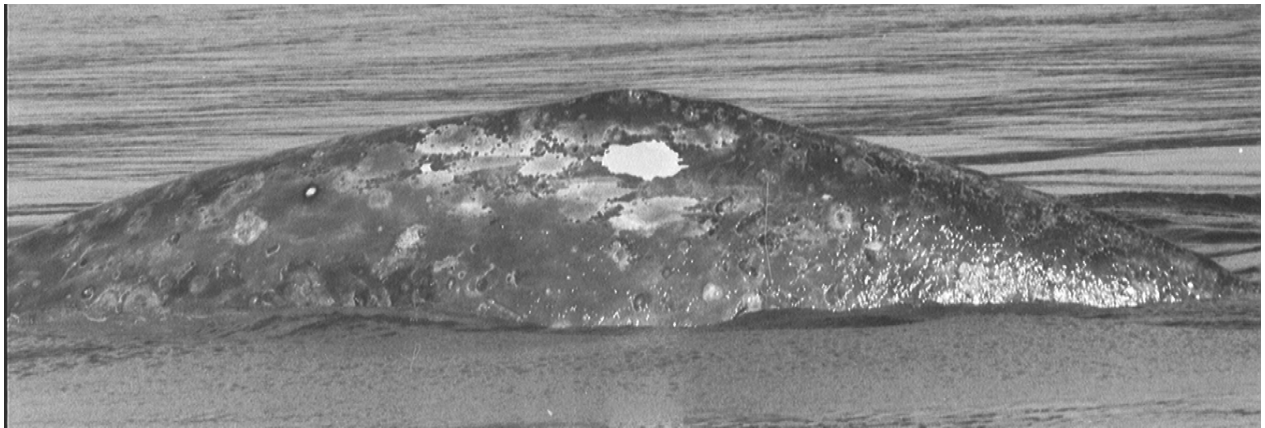
ER#539 was sighted on 2 June 2000 between Gedney (Hat) Island and the Everett jetty in northern Puget Sound.

## GRAY WHALE No. 542



Gray whale No. 542 was sighted on 6 September 2000 south of Ozette Island off the northern Washington coast. On 7 September 2002, it was sighted southwest of Cow Bay off western Vancouver Island.

## GRAY WHALE NO. 543



ER#543 was sighted on 2 June 2000 off the southern tip of Camano Island in northern Puget Sound.

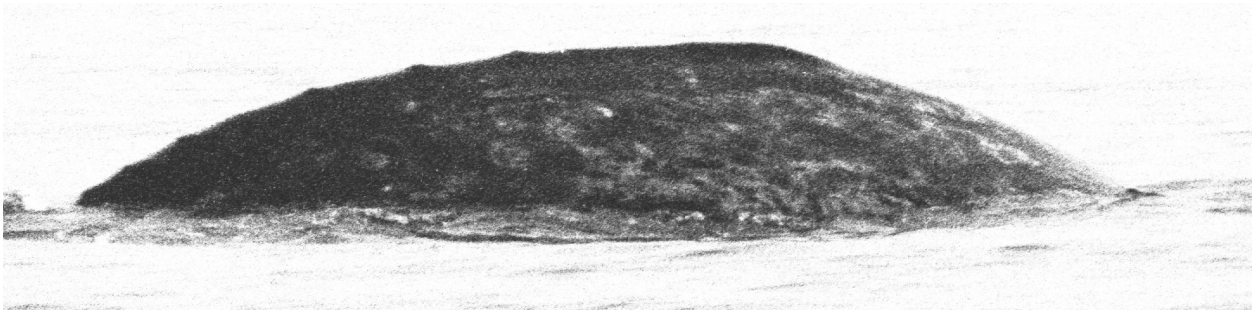


## GRAY WHALE NO. 546



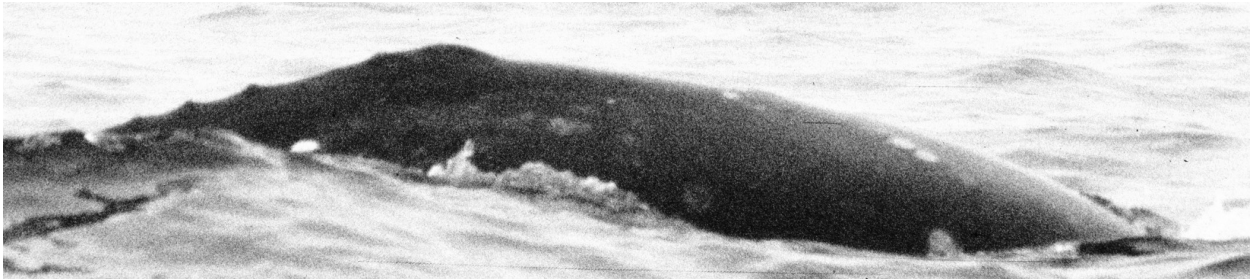
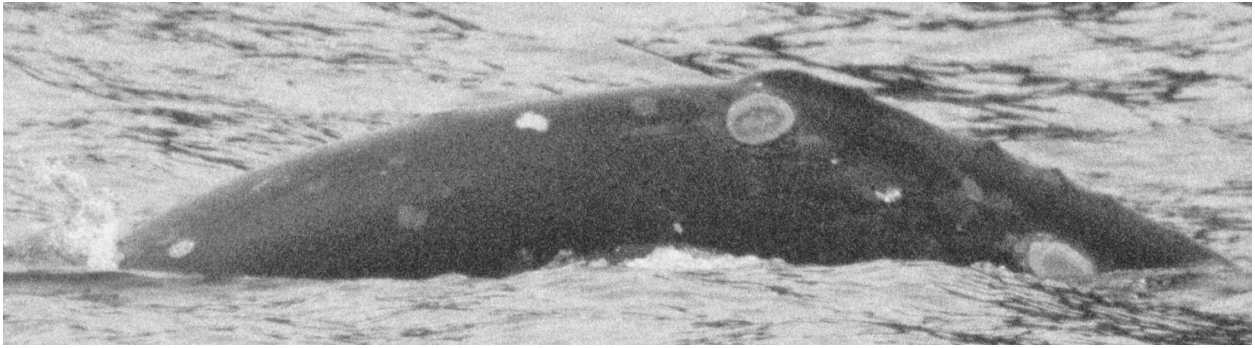
ER#546 was sighted on 2 June 2000 between Gedney (Hat) Island and the Everett jetty in northern Puget Sound.

## GRAY WHALE No. 555



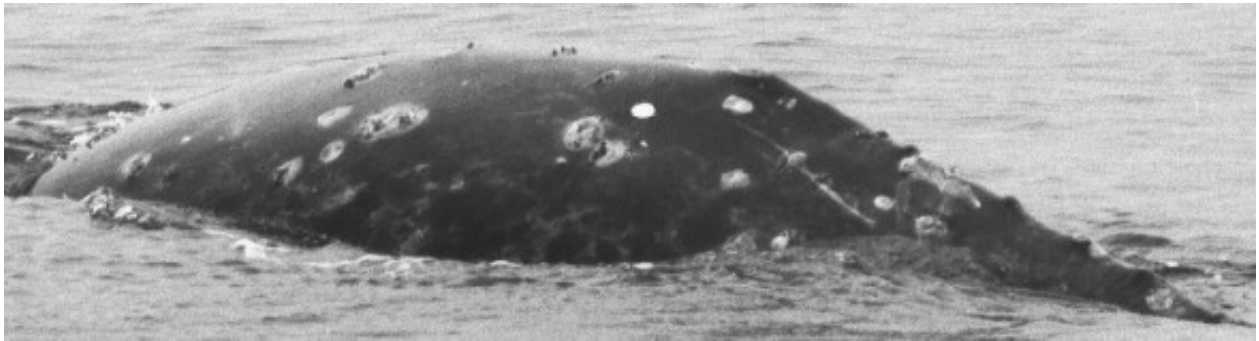
Gray whale No. 555 was sighted on 17 July 2002 off Long Brown Rock at Port Orford Reef on the southern Oregon coast.

GRAY WHALE No. 567



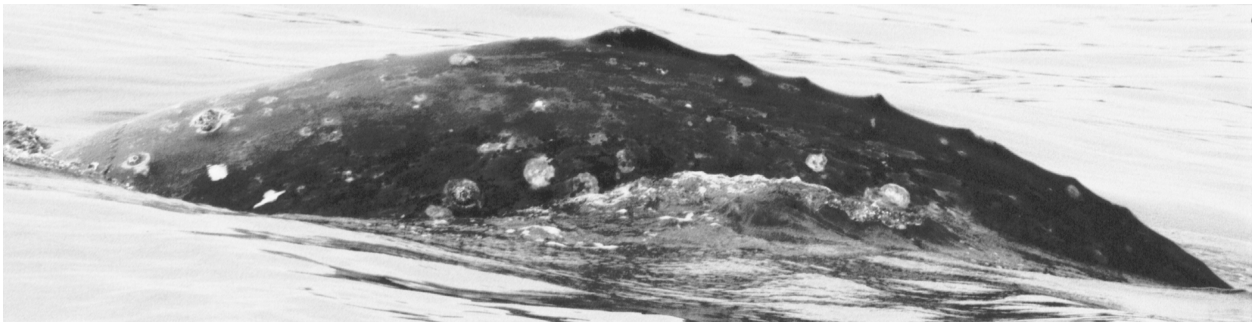
ER#567 was sighted on 5 October 2003 south of Ozette Island off the northern Washington coast.

## GRAY WHALE No. 570



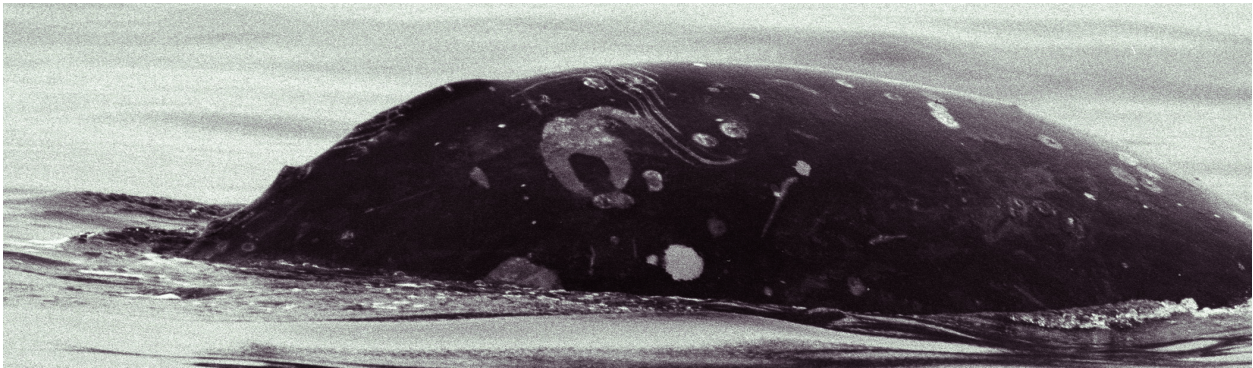
ER# 570 was sighted in 2001 off the southern coast of Vancouver Island east of Bonilla Point on 6 July and east of the Nitinat entrance on 9 July.

GRAY WHALE No. 572



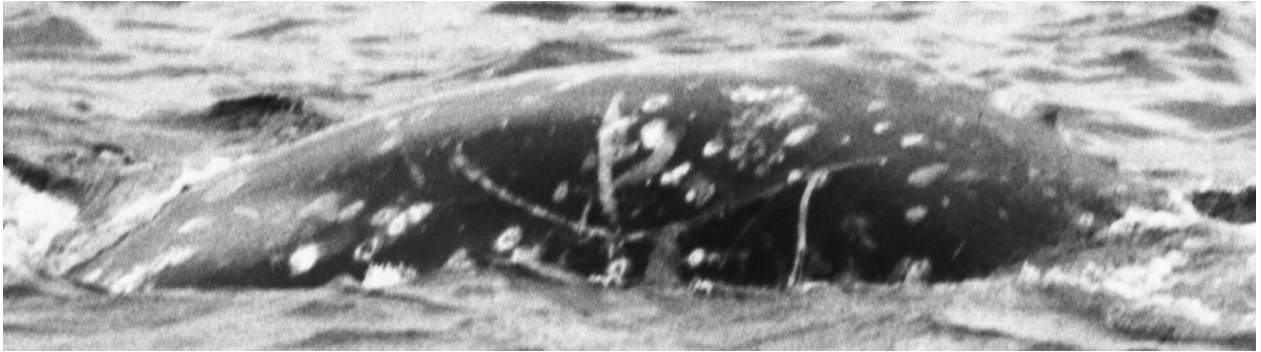
ER# 572 was sighted in Pachena Bay on the southern coast of Vancouver Island on 28 June 2001.

GRAY WHALE No. 574



ER#574 was sighted on 28 June 2001 east of Bonilla Point off southern Vancouver Island.

GRAY WHALE No. 576



ER# 576 was sighted off Portage Head on the northern Washington coast on 6 September 2001.



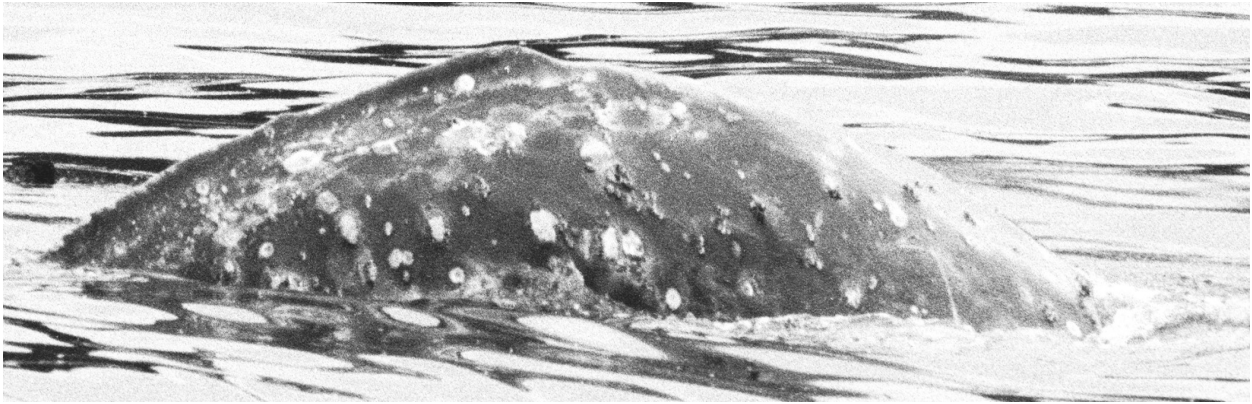
GRAY WHALE No. 577



ER #577 was sighted east of Bonilla Point off the southern coast of Vancouver Island on 6 July 2001.



## GRAY WHALE No. 587



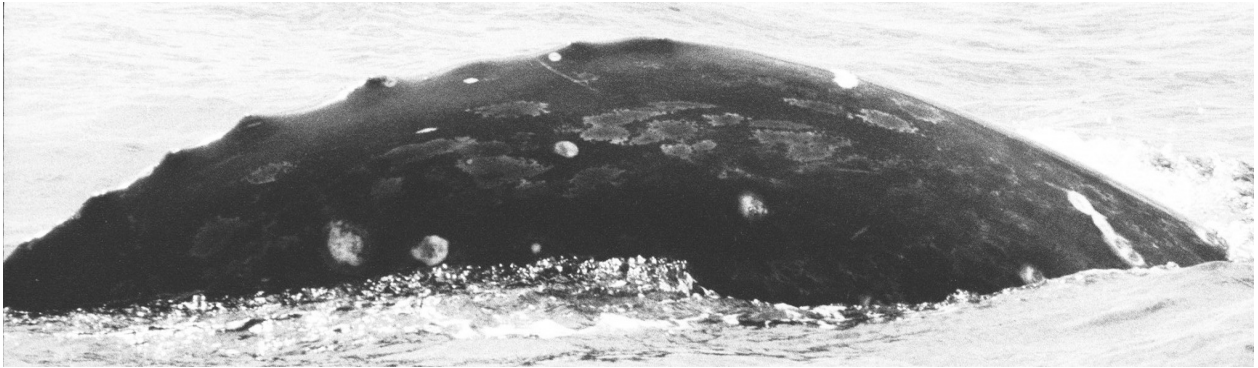
ER#587 was sighted east of Bonilla Point off southern Vancouver Island on 28 June and 6 July in 2001. On 20 April 2002, it was sighted at the mouth of the Sail River in the western Strait of Juan de Fuca.

## GRAY WHALE No. 592



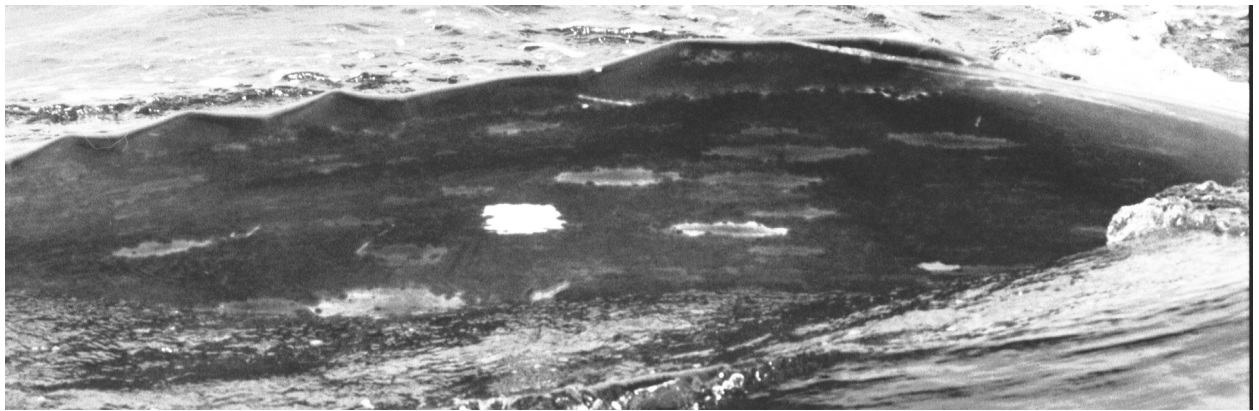
Gray whale No. 592 was sighted on 6 September 2001 off Portage Head on the northern Washington coast.

## GRAY WHALE No. 593



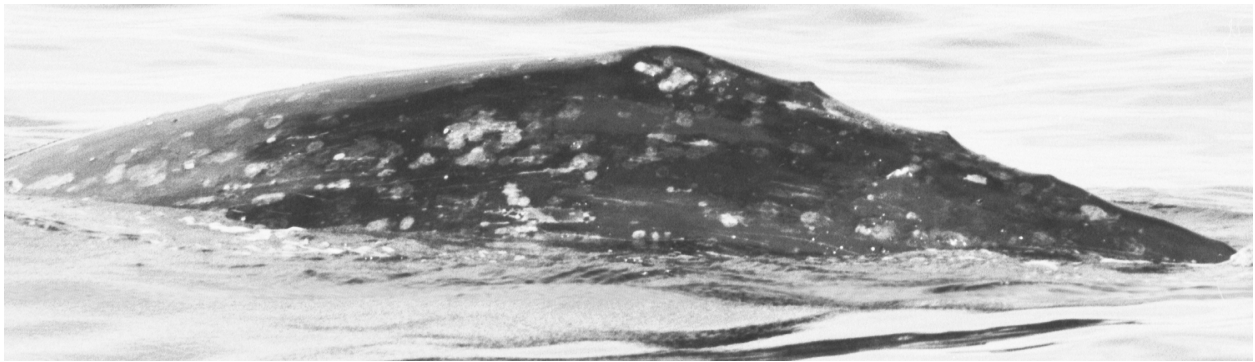
ER#593 was sighted east of Bonilla Point off the southern coast of Vancouver Island on 6 July 2001.

## GRAY WHALE No. 595



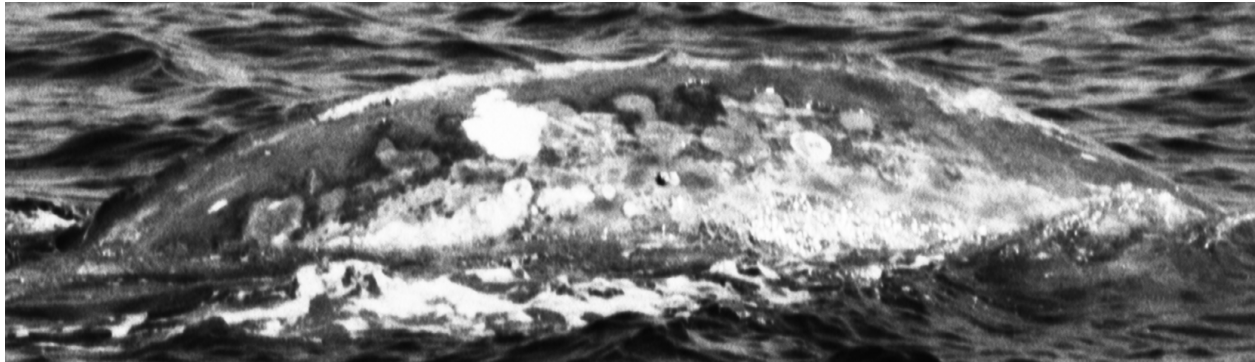
ER#595 was sighted on 26 June 2001 along the northern Washington coast south of Yellow Bank and east of Hand Rock.

## GRAY WHALE No. 596



ER#596 was sighted in 2001 east of Hand Rock off the northern Washington coast on 26 June and at the mouth of the Klanawa River off southern Vancouver Island on 28 June.

GRAY WHALE No. 598



ER#598 was sighted off King Edward Island in Barkley Sound off southern Vancouver Island on 9 July 2001.

## GRAY WHALE No. 601



ER#601 was sighted on 9 July 2001 northwest of Amphetrite Point to the west of Barkley Sound off southern Vancouver Island.

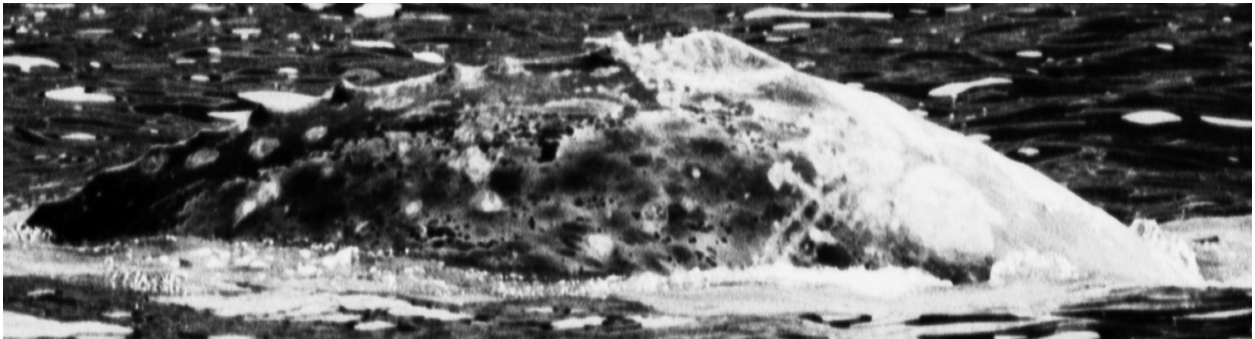
## GRAY WHALE No. 602



ER#602 was sighted on 13 June 2001 south of Sand Point off the northern Washington coast.

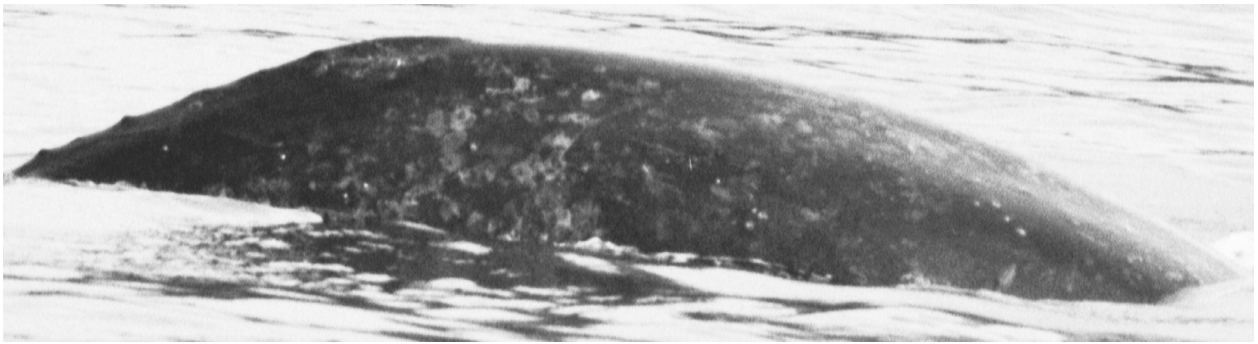
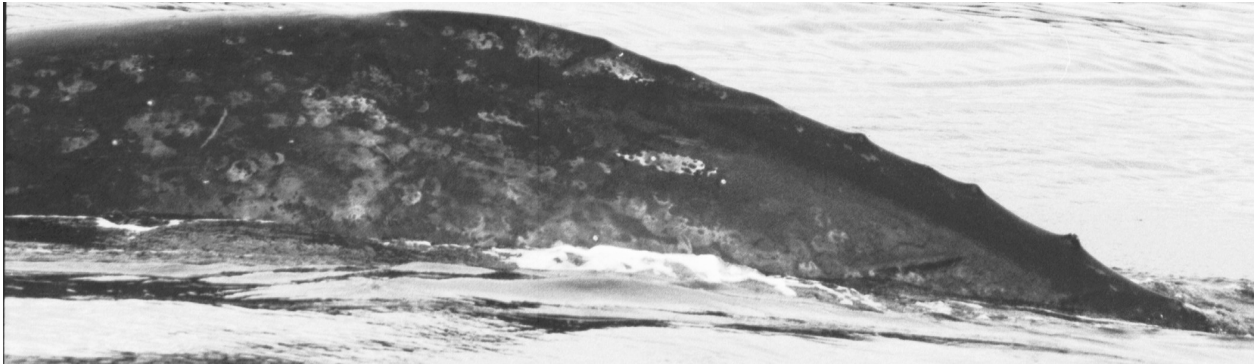


## GRAY WHALE No. 603



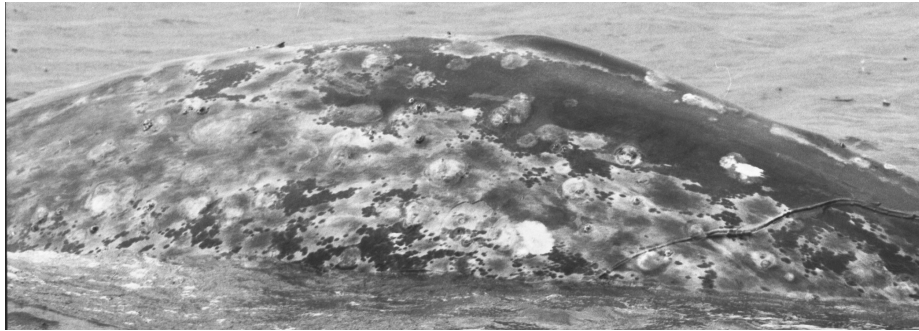
ER# 603 was sighted off the Bodeltchs near Cape Alava on the northern Washington coast on 26 June and 31 July 2001.

## GRAY WHALE No. 604



ER#604 was sighted on 26 June 2001 off Greenbank on the northern Washington coast.

## GRAY WHALE No. 605



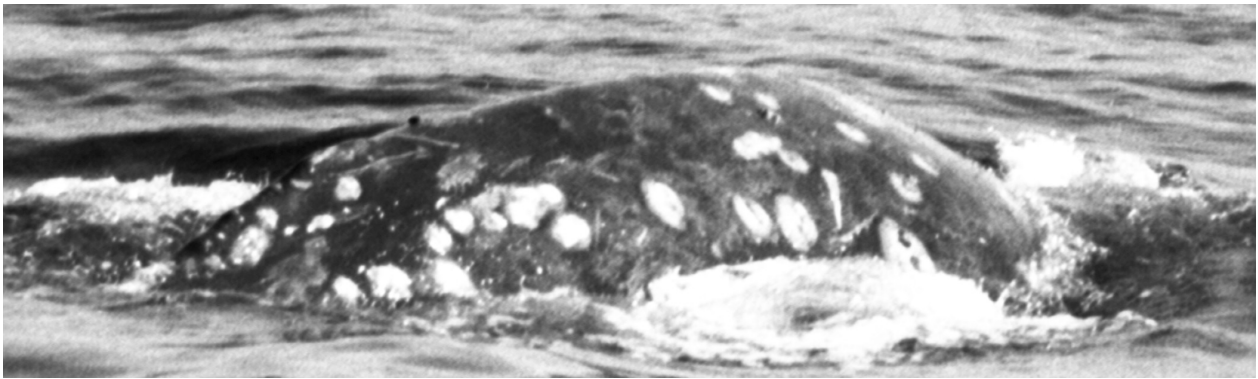
ER#605 was sighted in 2001 in the western Strait of Juan de Fuca west of Rasmussen Creek on 27 June and in Makah Bay on 3 August. On 30 August 2001, it was sighted around Ozette Island on the northern Washington coast. It was sighted off Warmhouse Beach in the western Strait of Juan de Fuca on 7 and 8 November 2001. On 22 August 2002, it was sighted off Portage Head on the northern Washington coast. On 24 September 2003, it was sighted south of the Bodeltehs and west of Ozette Island on the northern Washington coast.

## GRAY WHALE No. 606



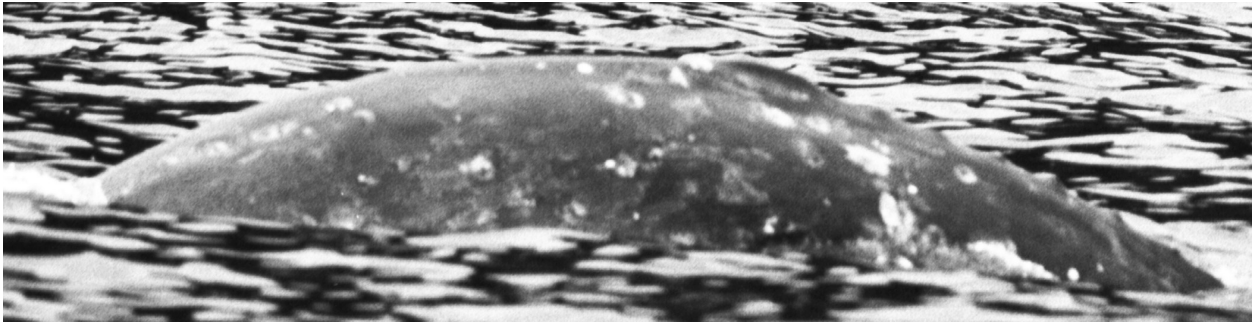
ER#606 was sighted on the east side of Folger Island in Barkley Sound off southern Vancouver Island on 9 July 2001.

## GRAY WHALE No. 607



ER#607 was sighted along the northern Washington coast in 2001 south of the Bodeltchs near Cape Alava on 31 July and off Sand Point on 21 August.

GRAY WHALE No. 608



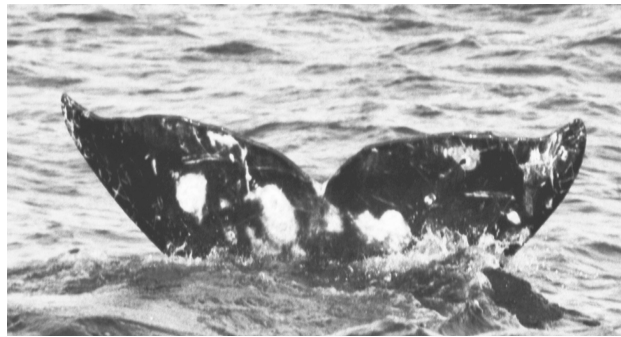
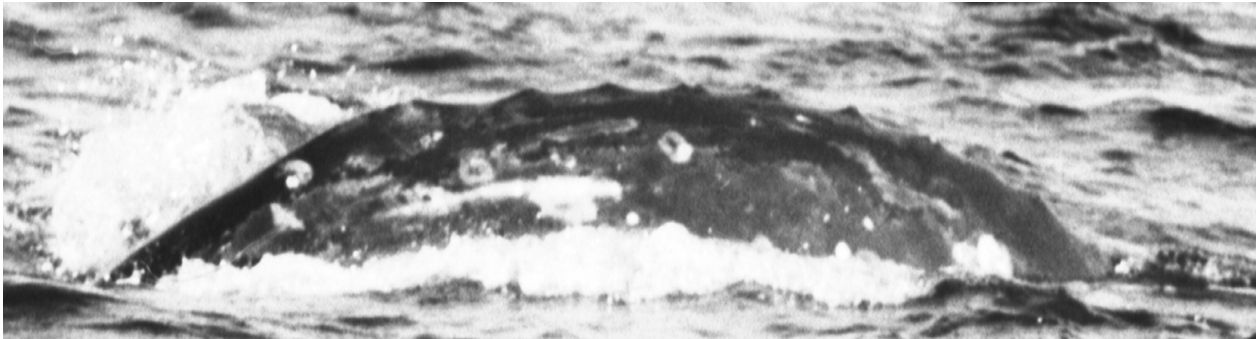
ER#608 was sighted on 6 September 2001 off Greenbank on the northern Washington coast.

## GRAY WHALE No. 609



ER#609 was sighted on 6 September 2001 off Portage Head on the northern Washington coast.

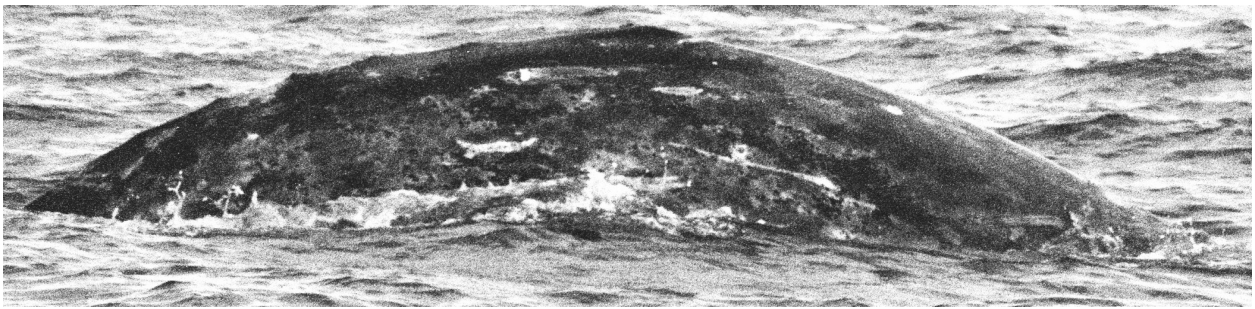
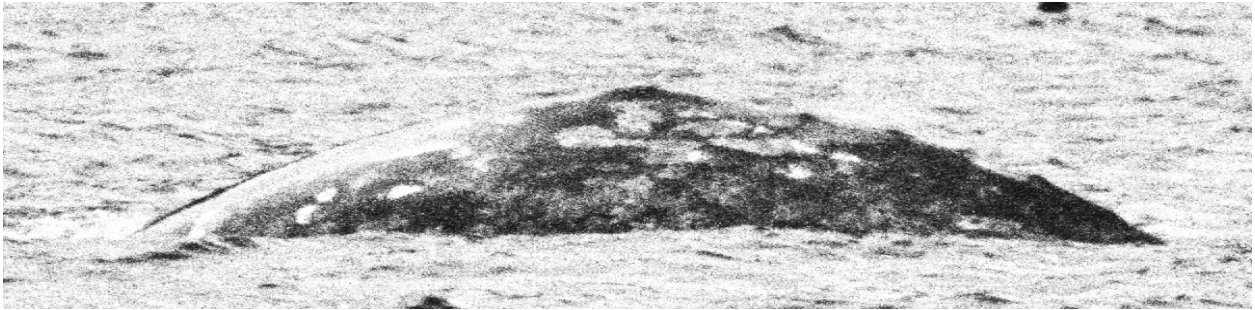
## GRAY WHALE No. 610



ER#610 was sighted in 2001 in the western Strait of Juan de Fuca at Seal Rock on 18 October and off Koitlah Point and Warmhouse Beach on 7 November.

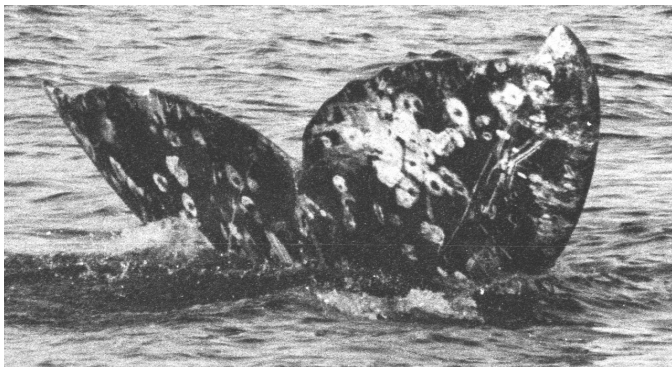
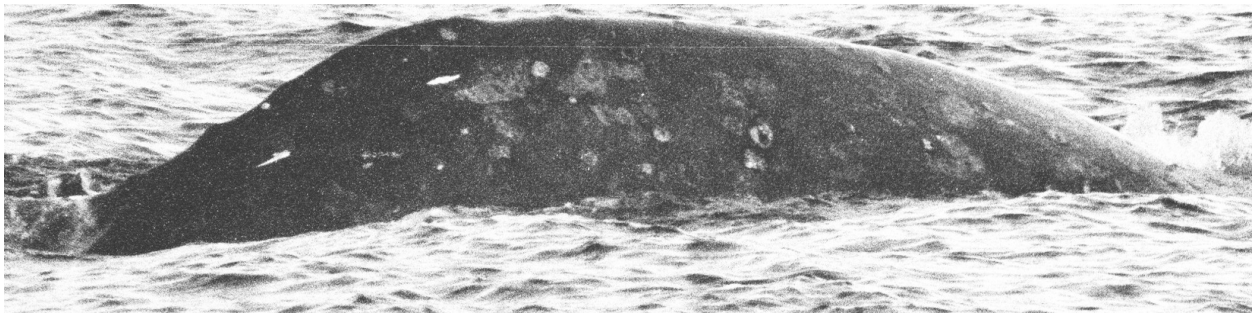


GRAY WHALE No. 641



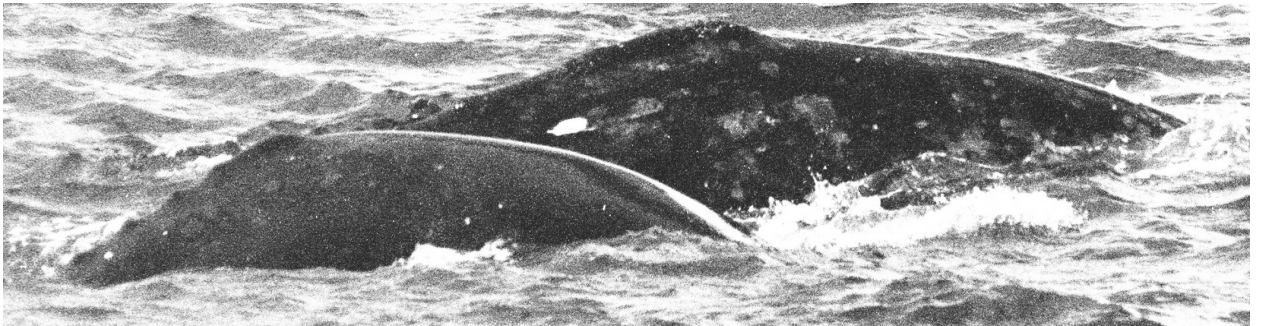
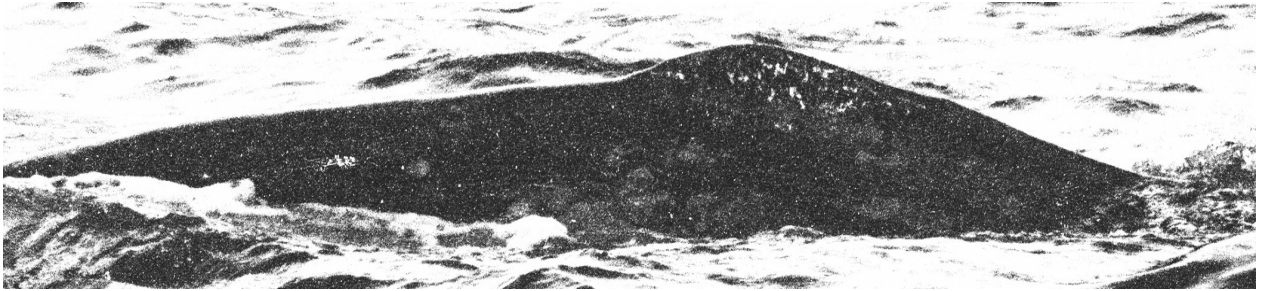
ER#641 was sighted on 17 September 2003 at Green Bank on the northern Washington coast.

## GRAY WHALE No. 643



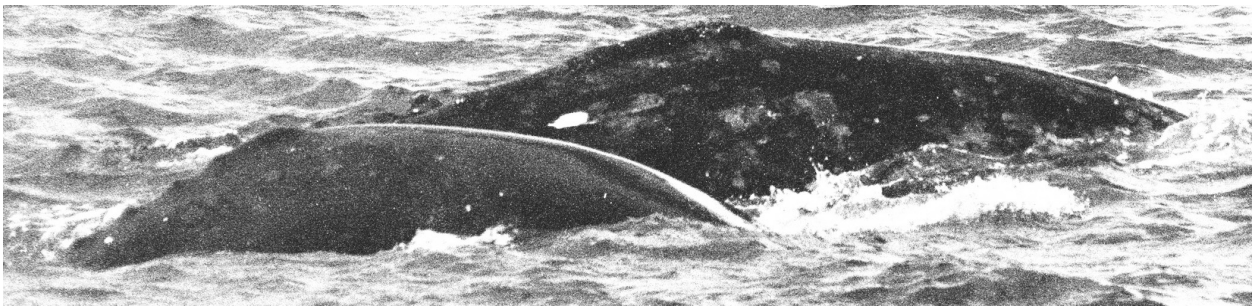
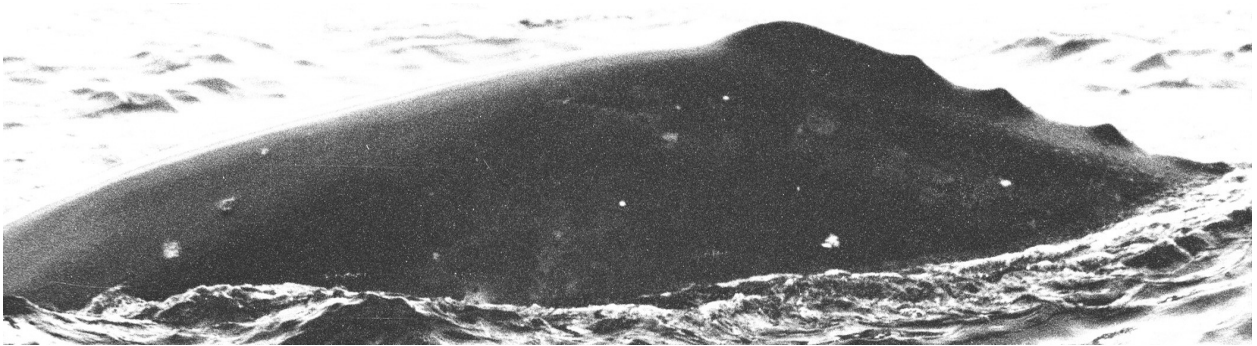
Gray whale No. 643 was sighted on 7 September 2002 southwest of Cow Bay off the western coast of Vancouver Island.

GRAY WHALE No. 678



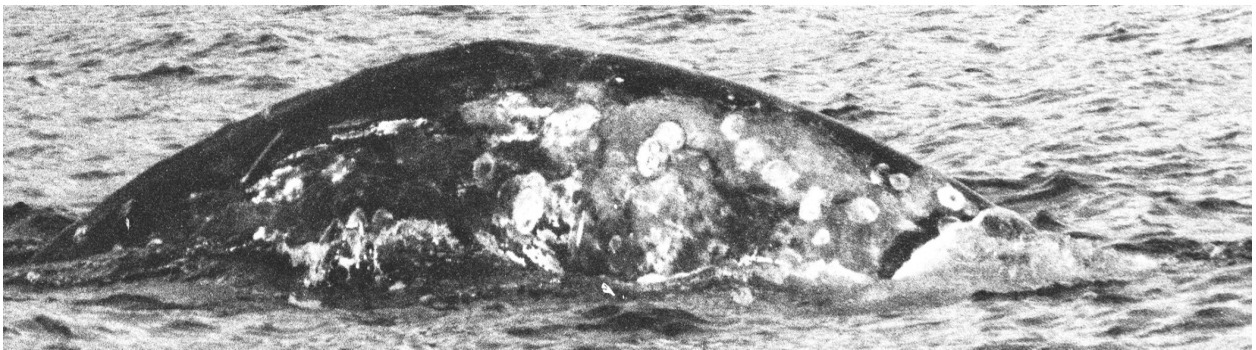
Gray whale No. 678 was sighted on 22 May 2002 east of White Rock on the northern Washington coast.

GRAY WHALE No. 679



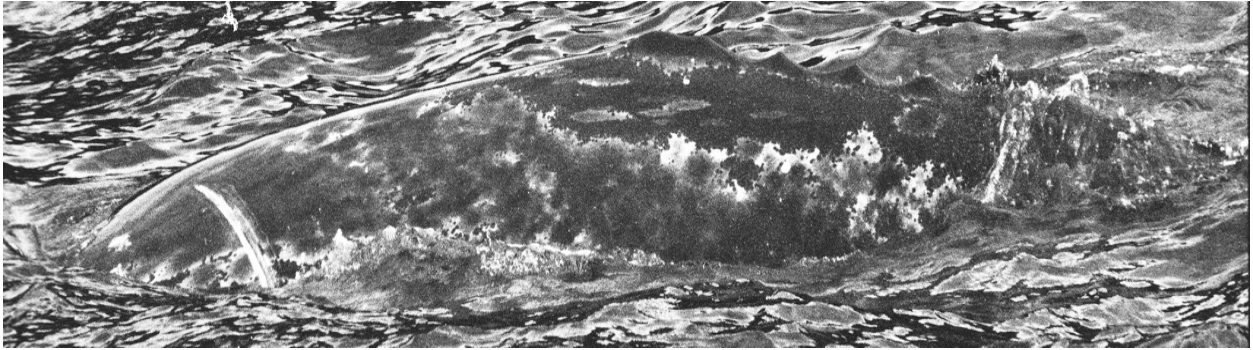
Gray whale No. 679 was sighted on 22 May 2002 east of White Rock on the northern Washington coast.

## GRAY WHALE No. 680



Gray whale No. 680 was sighted on 7 September 2002 south of Cow Bay off the western coast of Vancouver Island.

## GRAY WHALE No. 682



Gray whale No. 682 was sighted east of White Rock on the northern Washington coast on 22 May 2002. On 23 May 2002, it was sighted off Tsusiat Falls off the southern coast of Vancouver Island.

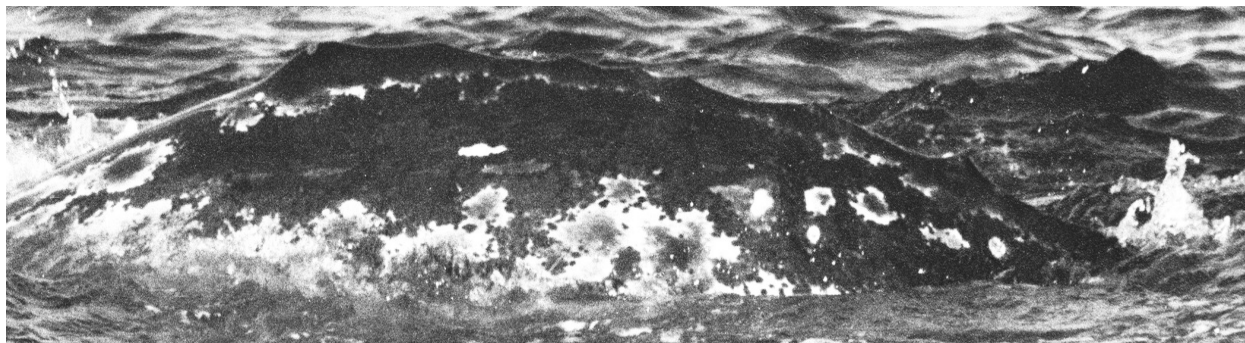
GRAY WHALE No. 692



ER#692 was sighted on 25 June 2003 east of Slant Rock in the western Strait of Juan de Fuca.



## GRAY WHALE No. 696



Gray whale No. 696 was sighted in the western Strait of Juan de Fuca in 2002 off Snow Creek on 17 September and off Jensen Creek on 10 October. In 2003, it was sighted in the western Strait of Juan de Fuca southeast of Koitlah Point on 11 June, off the Sail River on 4 September, west of Shipwreck Point on 10 September, and off Third Beach on 23 September. On 24 September 2003, it was sighted around Skagway on the northern Washington coast in the morning and off the Neah Bay jetty in the western Strait of Juan de Fuca in the afternoon. It was again sighted off Skagway on 15 October 2003.

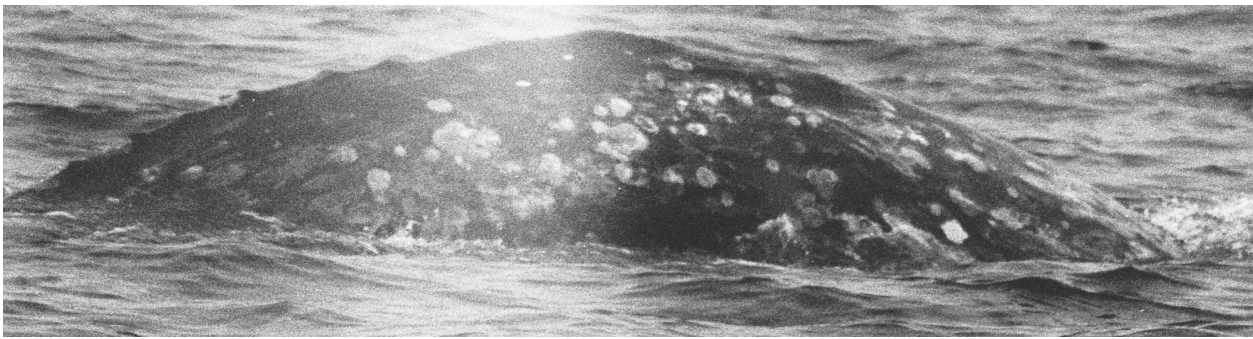
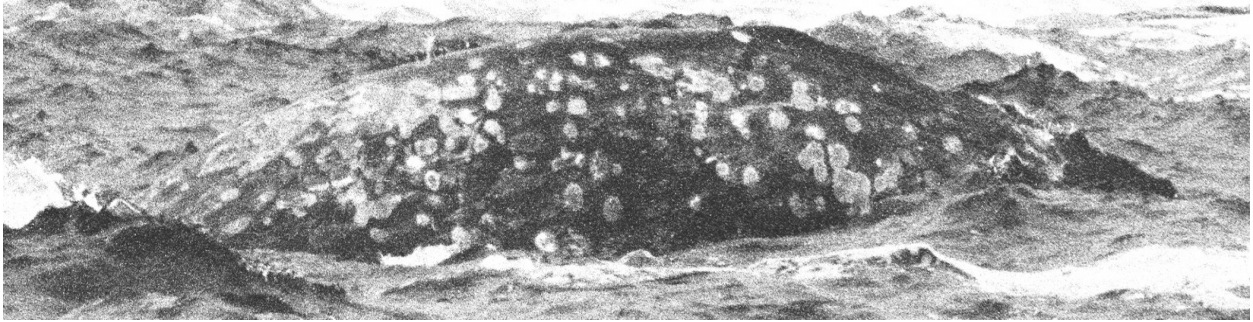


GRAY WHALE No. 697



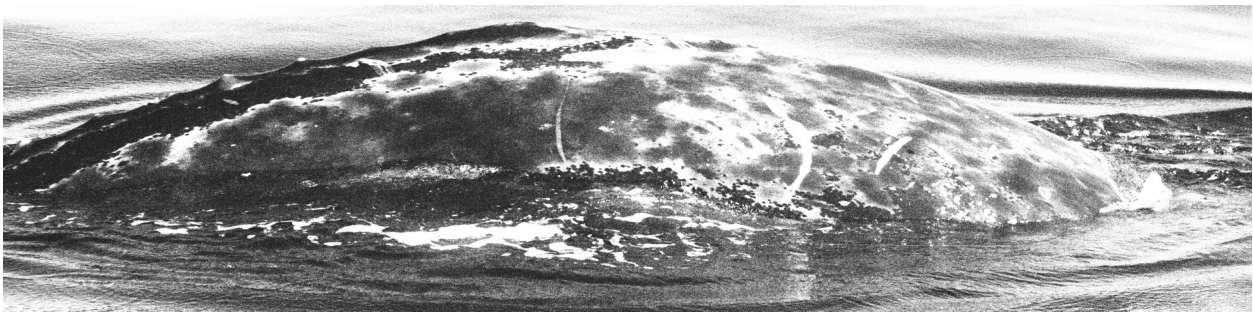
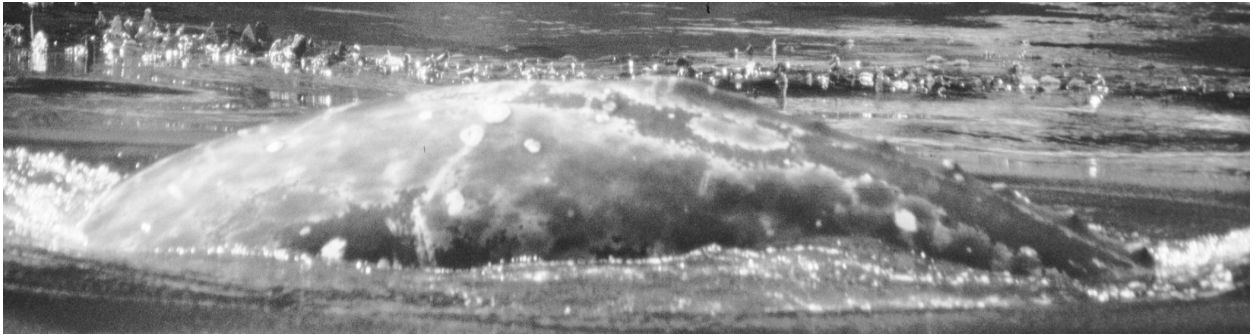
Gray whale No. 697 was sighted on 17 April 2002 off Sail Rock in the western Strait of Juan de Fuca.

## GRAY WHALE No. 710



Gray whale No. 710 was sighted on 17 October 2002 off South Seal Rock at St. George Reef on the northern California coast.

## GRAY WHALE No. 720



ER#720 was sighted in 2003 in the western Strait of Juan de Fuca off Third Beach on 3 September and around the Sail River on 4 September.

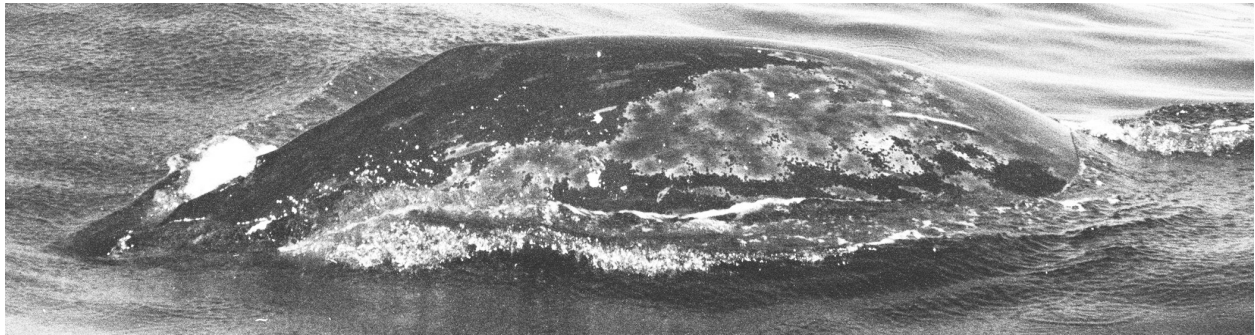
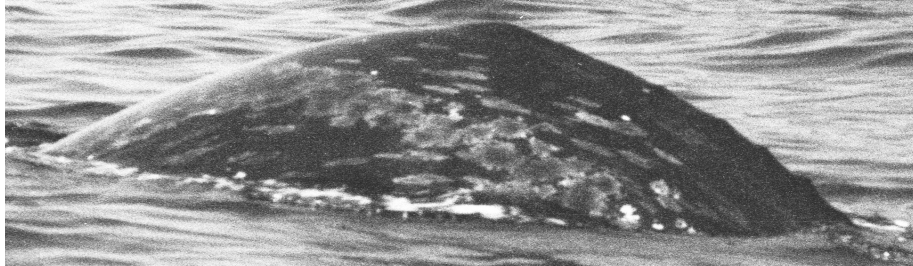
## GRAY WHALE No. 782



ER#782 was only sighted in 2003. On 26 July, it was sighted between Skagway and Waatch Point and at the Bodeltchs along the northern Washington coast. It was sighted in the western Strait of Juan de Fuca east of Slant Rock on 5 August and at Mushroom Rock on 15 August. On 21 August, it was sighted south of Skagway on the northern Washington coast. It was again in the western Strait of Juan de Fuca off Chito Beach on 26 August and off Koitlah Point on 2 October.

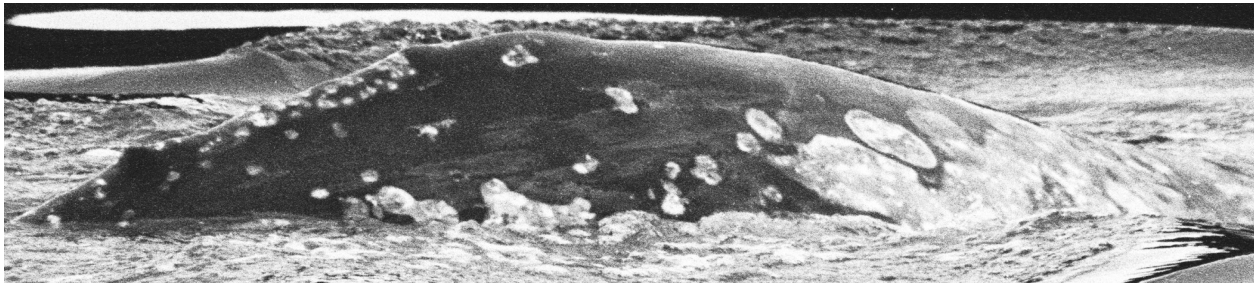


## GRAY WHALE No. 783



ER#783 was sighted in 2003 along the northern Washington coast southeast of Ozette Island on 26 July and west of Cannonball rocks and off the Ozette River rocks on 28 July.

## GRAY WHALE No. 785



ER#785 was sighted in 2003 in the western Strait of Juan de Fuca off Ray's at Chito Beach on 21 May and east of Slant Rock on 11 June. On 21 August 2003, it was sighted at Skagway on the northern Washington coast.

## GRAY WHALE No. 788



ER#788 was sighted on 5 October 2003 off the Ozette River reef on the northern Washington coast.