

CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE REPORT ON BIENNIAL MANAGEMENT MEASURES FOR 2023-2024

Throughout this biennial cycle, the California Department of Fish and Wildlife (CDFW) has received suggested corrections or modifications to waypoints and corresponding Non-Trawl Rockfish Conservation Area (NT-RCA) boundary lines. CDFW provides this report in support of a suite of proposed waypoint additions or amendments throughout California. CDFW previously submitted reports under this Agenda Item during the June ([Agenda Item G.6.a, Supplemental CDFW Report 1, June 2021](#)) and September ([Agenda Item C.8.a, Supplemental CDFW Report 1, September 2021](#)) Council meetings, in the interest of promoting early review of these proposals by the public and collaborating agencies. In response, CDFW has refined, modified, and added to the proposals to be considered this cycle. The entire suite of CDFW-proposed waypoint and corresponding NT-RCA boundary line changes are provided below, and the content from the June and September reports should not be considered further.

As enumerated in the tables below, CDFW's proposals for waypoint modification and NT-RCA boundary line modifications all fall into at least one of the following categories:

1. Repeal the Cowcod Conservation Areas (CCAs) and implement new NT-RCAs around the islands, banks and high spots within the CCAs;
2. Address CDFW enforcement requests;
3. Industry requests to better align coordinates with the depth contour, and;
4. Crossover corrections.

It should be noted that while there is a likely decision to consider repeal of the CCAs under Agenda Item E.6., Non-Trawl Sector Area Management Measures, rather than Item E.5., Biennial Management Measures for 2023-2024, CDFW offers the full suite of proposed waypoint and RCA boundary line additions and modifications here in this Agenda Item. It may be more expeditious to add all proposed waypoints to the repository in this action, as they would not become 'activated' or 'in use' until a subsequent regulatory action. CDFW would appreciate input from the National Marine Fisheries Service on this matter as the 2023-24 biennial specifications process continues.

This complete package of proposed modifications is arranged from north to south, with modifications proposed inside the CCAs found toward the end. CDFW welcomes continued public review and input of these proposed modifications and encourages the industry or public to contact Andrew.klein@wildlife.ca.gov.

42° N to 40° 10' N latitude

The NT-RCA is currently specified from 40 fathoms¹ to 100 fathoms for the commercial fishery and is seaward of 30 fathoms for the recreational fishery between 42° N lat. (OR/CA border) and 40°10' N lat. (near Cape Mendocino).

¹ Between 46° 16' and 40° 10' N lat. and the 30-fathom line and 40-fathom line, fishing is only allowed with hook-and-line gear with no allowance for bottom longline and dinglebar.

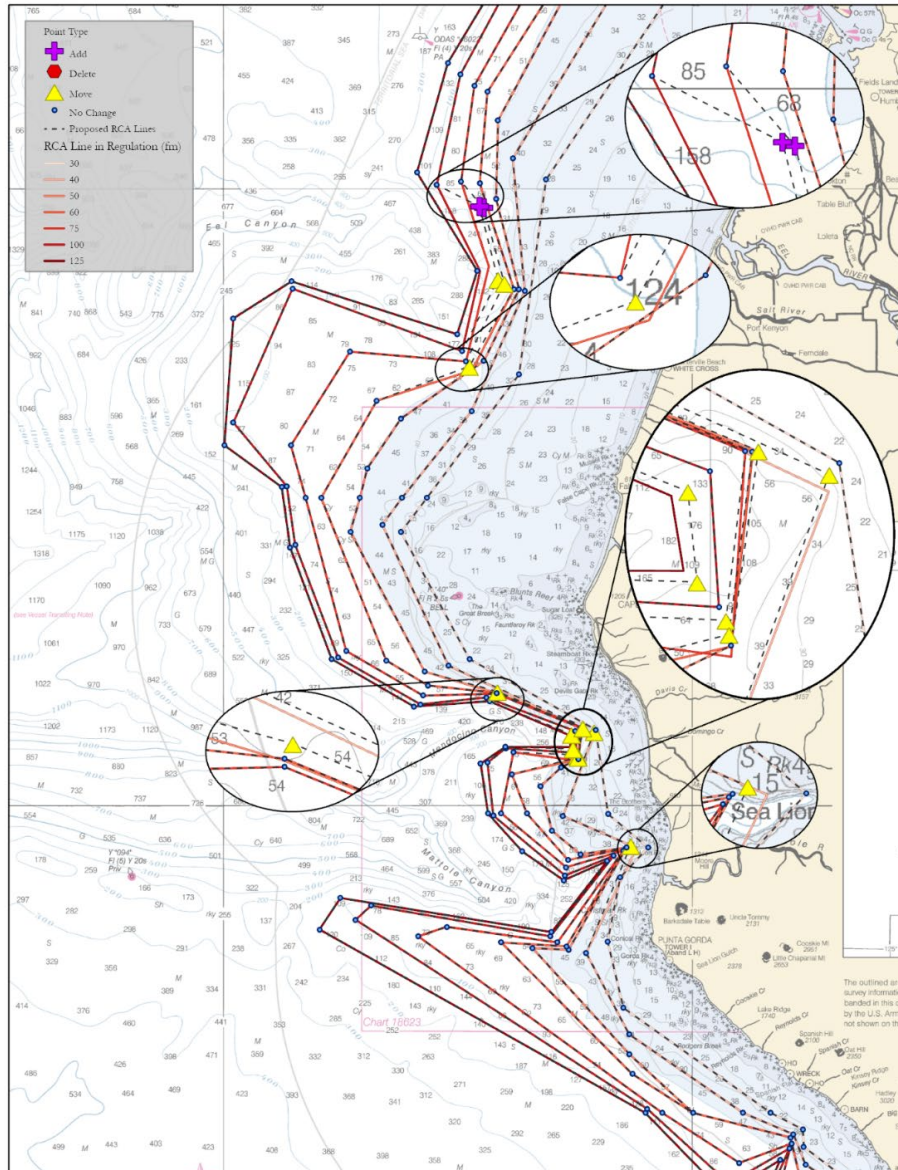


Figure 1. Proposed NT-RCA boundary line modifications around Eel Canyon, near Eureka, CA, (better depth contour alignment) reflecting industry requested modifications and around Mendocino and Mattole Canyons (crossover corrections).

Table 1. Proposed waypoints for the NT-RCA boundary line modifications around Eel Canyon, near Eureka, CA, (better depth contour alignment) reflecting industry requested amendments (shaded grey). The proposed NT-RCA boundary line modifications around Mendocino and Mattole Canyons (crossover corrections).

CDFW Cat.	Fathom Line	Waypoint Number	Action	Old Lat Deg	Old Lat Min	Old Long Deg	Old Long Min	New Lat Deg	New Lat Min	New Long Deg	New Long Min
4	125	188	Move	40	22.30	124	25.27	40	22.32	124	25.15
4	125	189	Move	40	21.91	124	25.18	40	21.85	124	25.09
3	100	158.1	Add					40	39.44	124	29.08
3	100	159	Move	40	37.35	124	29.05	40	37.08	124	28.29
3	75	98.1	Add					40	39.40	124	28.90

CDFW Cat.	Fathom Line	Waypoint Number	Action	Old Lat Deg	Old Lat Min	Old Long Deg	Old Long Min	New Lat Deg	New Lat Min	New Long Deg	New Long Min
3	75	99	Move	40	37.50	124	28.68	40	36.96	124	28.02
4	75	108	Move	40	21.46	124	24.86	40	21.65	124	24.89
4	60	89	Move	40	34.13	124	29.39	40	34.26	124	29.52
4	60	96	Move	40	21.51	124	24.86	40	21.58	124	24.87
4	50	74	Move	40	23.66	124	28.35	40	23.71	124	28.32
4	50	75	Move	40	22.54	124	24.71	40	22.53	124	24.67
4	40	95	Move	40	22.32	124	24.19	40	22.41	124	24.19
4	40	97	Move	40	18.63	124	22.38	40	18.71	124	22.63

40° 10' N to 34° 27' N latitude

In the area between 40° 10' N lat. and 38° 57.5' N lat. (Point Arena), the NT-RCA for the commercial fishery is from 40 fathoms to 125 fathoms and is seaward of 30 fathoms for the recreational fishery (*Figure 2 and Table 2*).

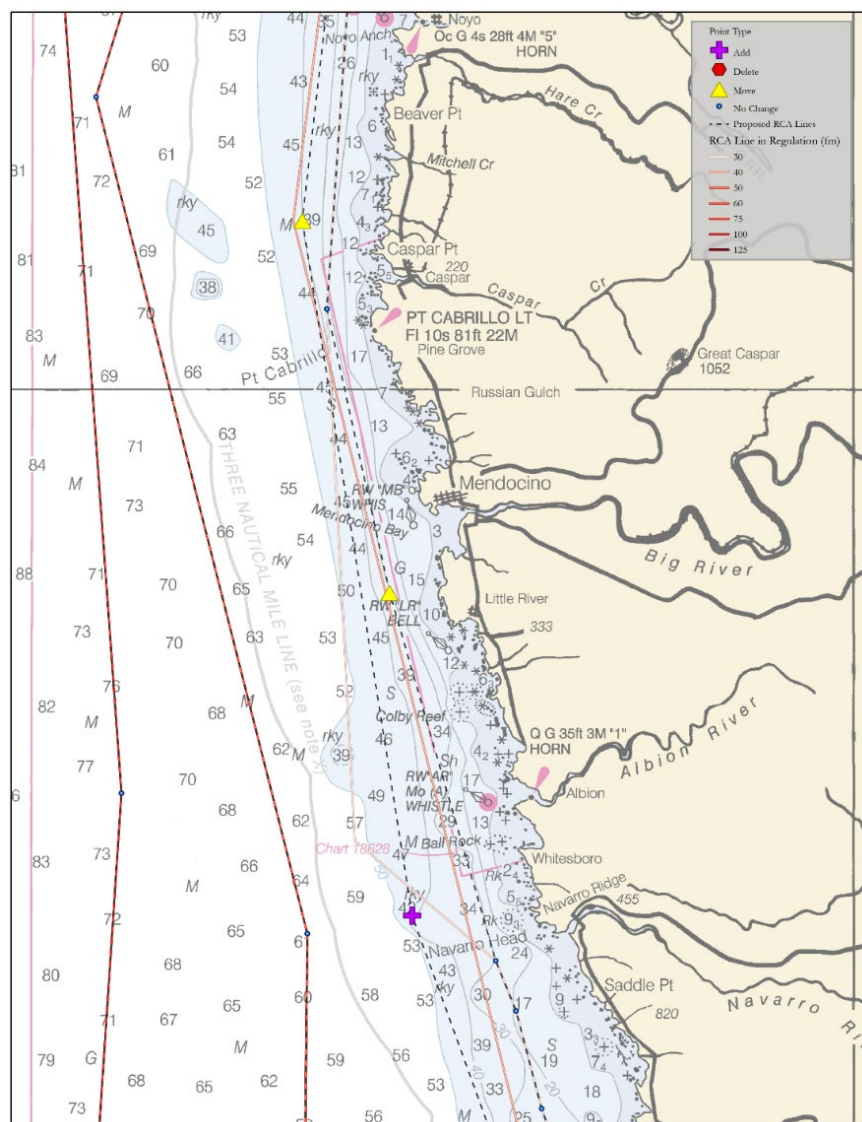


Figure 2. Proposed NT-RCA boundary line modifications near Albion, CA (crossover correction and better depth contour alignment).

Table 2. Proposed waypoints for the NT-RCA boundary line modifications near Albion, CA (crossover correction and better depth contour alignment).

CDFW Cat.	Fathom Line	Waypoint Number	Action	Old Lat Deg	Old Lat Min	Old Long Deg	Old Long Min	New Lat Deg	New Lat Min	New Long Deg	New Long Min
3 and 4	40	112	Move	39	22.62	123	51.21	39	22.63	123	51.03
3 and 4	40	112.1	Add					39	11.86	123	48.83
3 and 4	30	144	Move	39	13.00	123	47.65	39	16.88	123	49.29

In the area between 38° 57.5' N lat. (Point Arena) and 34° 27' N lat. (Point Conception), the NT-RCA for the commercial fishery is from 50 fathoms to 125 fathoms and is seaward of 50 fathoms for the recreational fishery (Figure 3 through Figure 7 and Table 3 through Table 7).

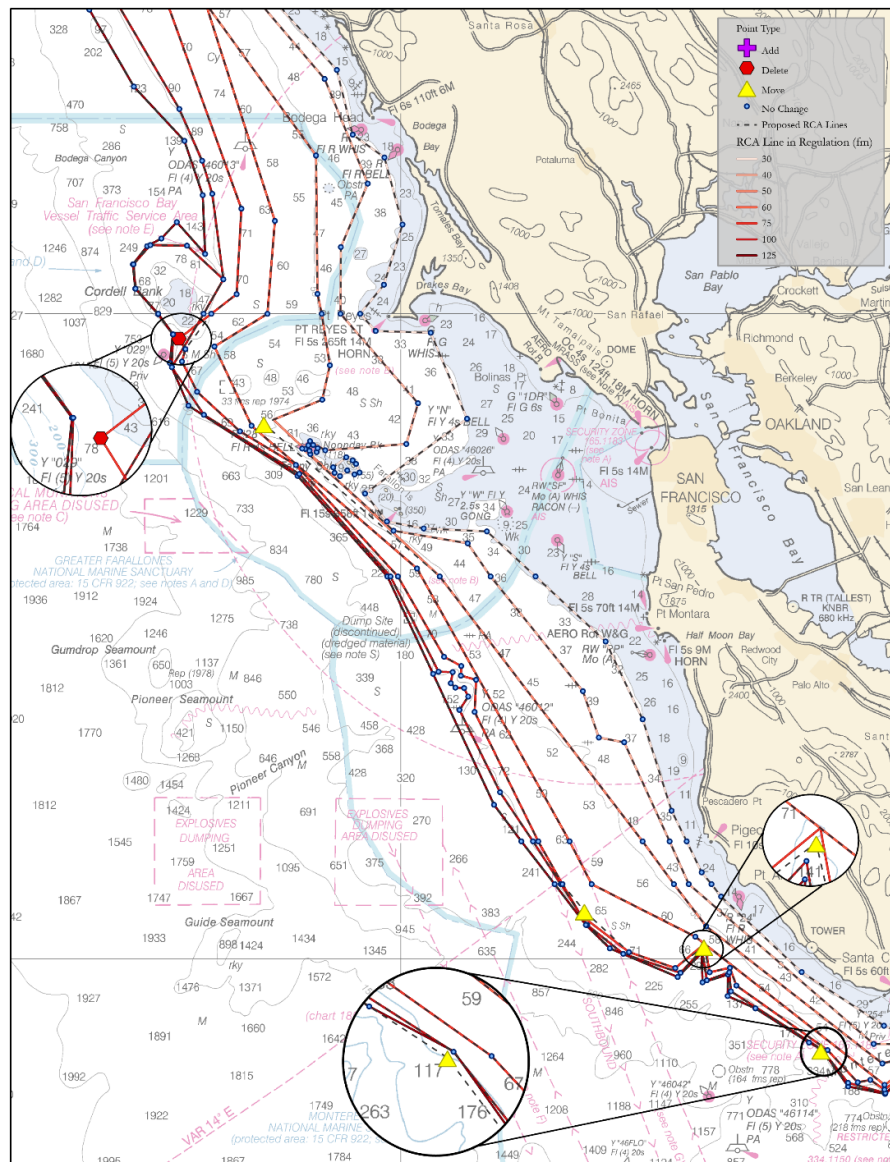


Figure 3. Proposed modification to the NT-RCA boundary line around the Farallon Islands, near San Francisco, CA, (better depth contour alignment) and other modifications (crossover corrections).

Table 3. Proposed waypoints for the NT-RCA boundary line modification around the Farallon Islands, near San Francisco, CA, (better depth contour alignment) and other waypoint modifications (crossover corrections).

CDFW Cat.	Fathom Line	Waypoint Number	Action	Old Lat Deg	Old Lat Min	Old Long Deg	Old Long Min	New Lat Deg	New Lat Min	New Long Deg	New Long Min
4	125	264*	Move	36	51.53	122	10.67	36	51.44	122	10.79
4	75	140	Delete	37	57.70	123	25.98				
4	75	154	Move	37	4.12	122	38.94	37	4.49	122	38.50
4	75	157	Move	37	1.41	122	24.41	37	1.16	122	24.50
3	50	106	Move	37	50.21	123	14.90	37	49.84	123	16.05

*Waypoint #264 also appears in Figure 4; but the proposed waypoints are only included in Table 3.

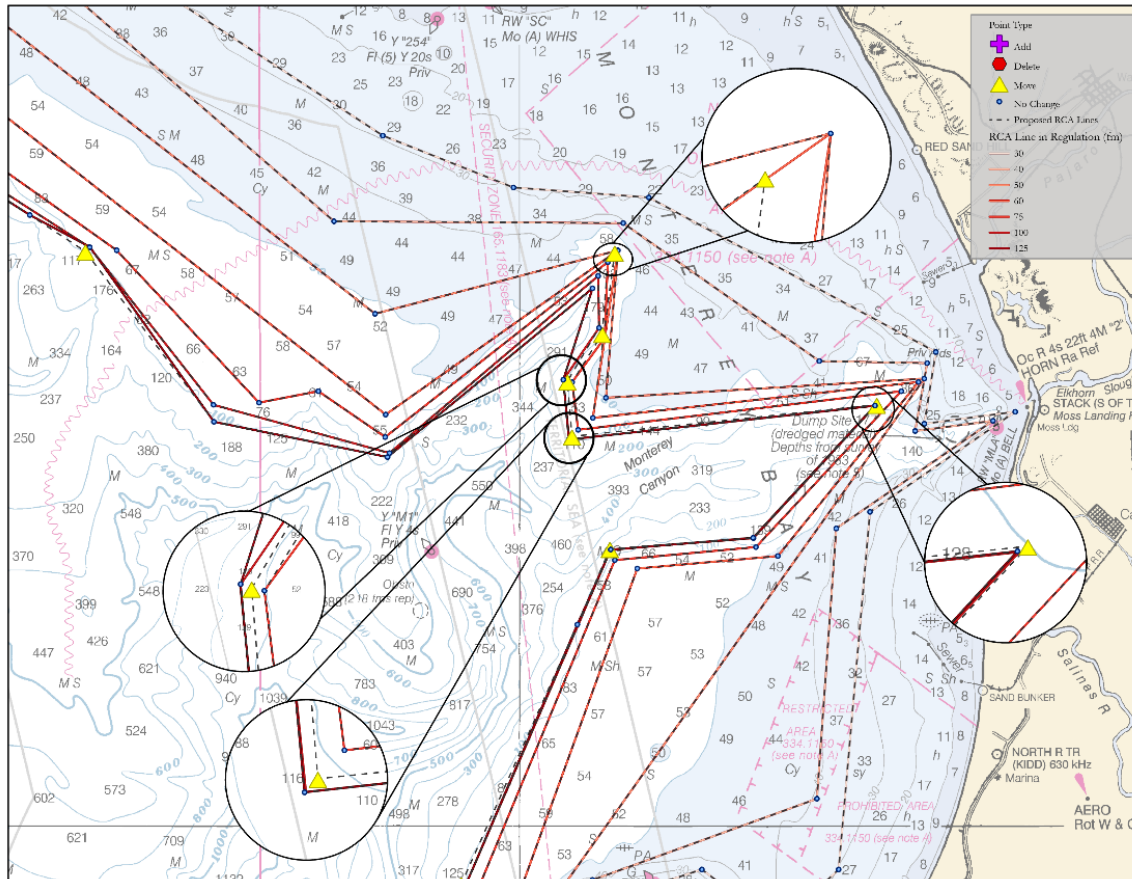


Figure 4. Proposed modifications to the NT-RCA boundary lines in the Monterey Bay, CA area (crossover corrections).

Table 4. Proposed waypoints for the NT-RCA boundary line modifications in the Monterey Bay, CA area (crossover corrections).

CDFW Cat.	Fathom Line	Waypoint Number	Action	Old Lat Deg	Old Lat Min	Old Long Deg	Old Long Min	New Lat Deg	New Lat Min	New Long Deg	New Long Min
4	125	272	Move	36	45.50	121	57.73	36	45.52	121	57.74
4	100	243	Move	36	48.88	121	58.90	36	48.86	121	58.80
4	100	244	Move	36	47.70	121	58.75	36	47.76	121	58.68
4	100	245	Move	36	48.37	121	51.14	36	48.39	121	51.10
4	75	166	Move	36	49.72	121	57.87	36	49.80	121	57.93
4	60	129	Move	36	51.46	121	57.54	36	51.42	121	57.62

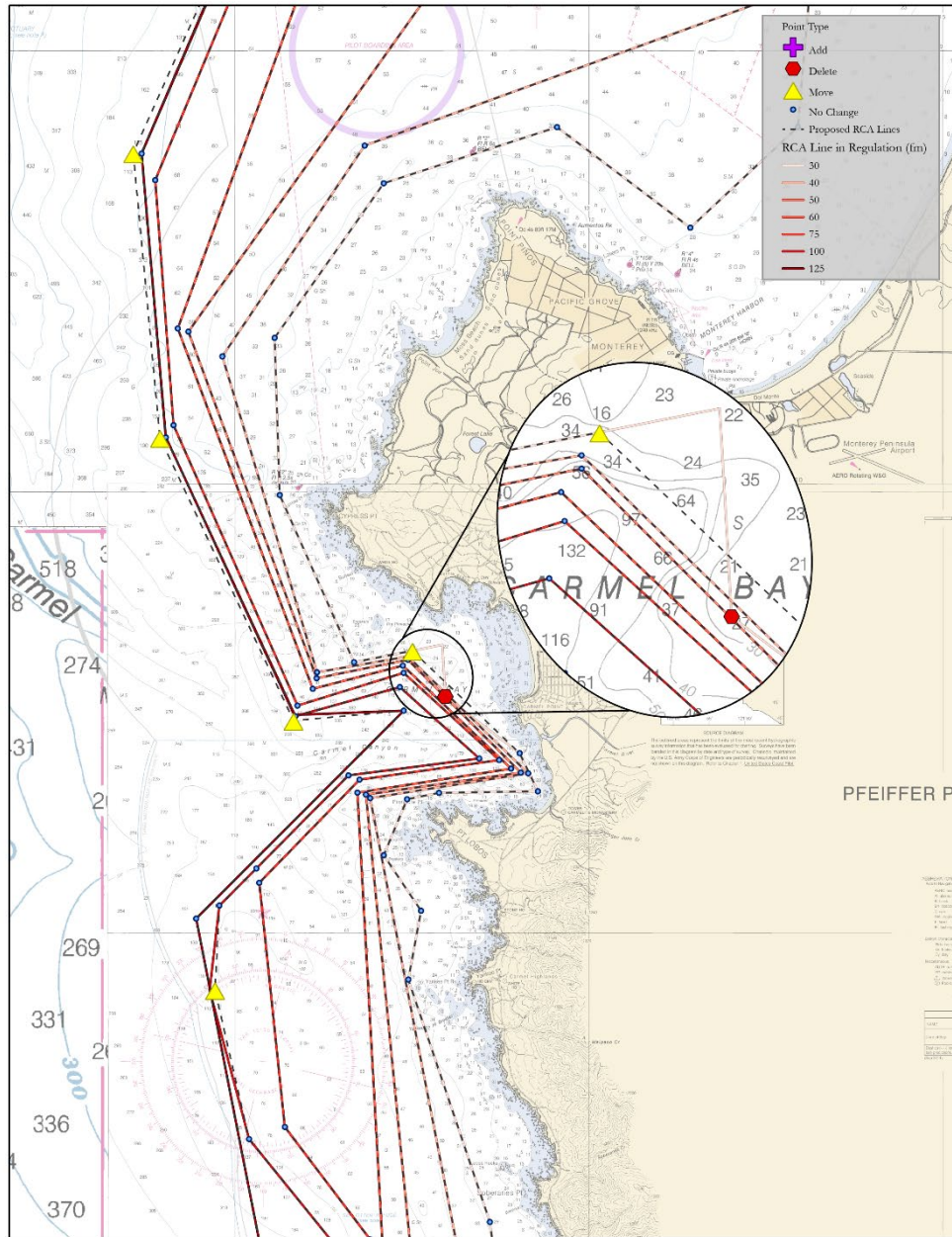


Figure 5. Proposed modifications to the NT-RCA boundary lines south of Monterey Bay, CA (crossover corrections).

Table 5. Proposed waypoints for the NT-RCA boundary line modifications south of Monterey Bay, CA (crossover corrections).

CDFW Cat.	Fathom Line	Waypoint Number	Action	Old Lat Deg	Old Lat Min	Old Long Deg	Old Long Min	New Lat Deg	New Lat Min	New Long Deg	New Long Min
4	125	274	Move	36	38.84	122	1.32	36	38.84	122	1.44
4	125	275	Move	36	35.63	122	0.98	36	35.62	122	1.06
4	125	276	Move	36	32.47	121	59.17	36	32.41	121	59.18
4	100	256	Move	36	29.35	122	0.36	36	29.35	122	0.28
4	30	192	Move	36	33.27	121	57.07	36	33.20	121	57.50
4	30	193	Delete	36	32.68	121	57.03				

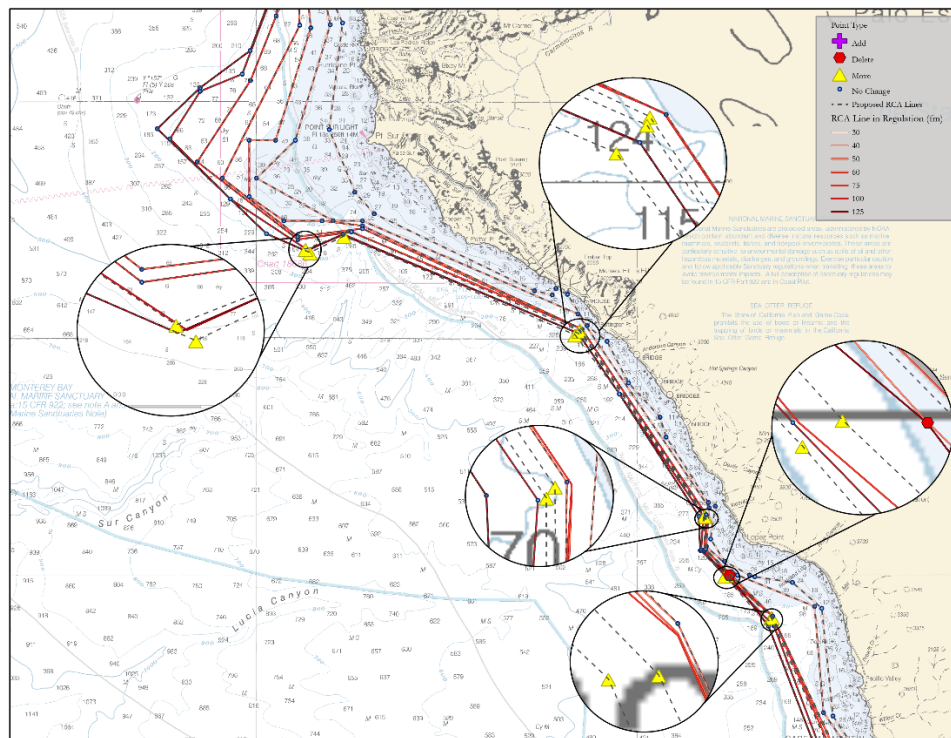


Figure 6. Proposed modifications to the NT-RCA boundary lines near Point Sur, CA (crossover corrections).

Table 6. Proposed waypoints for the NT-RCA boundary line modifications near Point Sur, CA (crossover corrections).

CDFW Cat.	Fathom Line	Waypoint Number	Action	Old Lat Deg	Old Lat Min	Old Long Deg	Old Long Min	New Lat Deg	New Lat Min	New Long Deg	New Long Min
4	125	284	Move	36	13.73	121	57.38	36	13.66	121	57.17
4	125	285	Move	36	14.41	121	55.45	36	14.35	121	55.38
4	125	286	Move	36	10.25	121	43.08	36	10.18	121	43.26
4	125	290	Move	36	0.00	121	35.15	35	59.96	121	35.39
4	100	263	Move	36	13.76	121	57.27	36	13.81	121	57.40
4	75	186	Move	36	10.42	121	42.90	36	10.35	121	43.03
4	75	187	Move	36	2.55	121	36.35	36	2.50	121	36.47
4	75	189	Move	36	0.00	121	35.40	36	0.00	121	35.32
4	75	190	Move	35	58.25	121	32.88	35	58.20	121	32.97
4	60	143	Move	36	10.42	121	42.90	36	10.30	121	43.00
4	60	144	Move	36	2.55	121	36.35	36	2.54	121	36.43
4	60	146	Move	35	58.25	121	32.88	35	58.21	121	32.88
4	50	130	Delete	36	0.00	121	35.15				

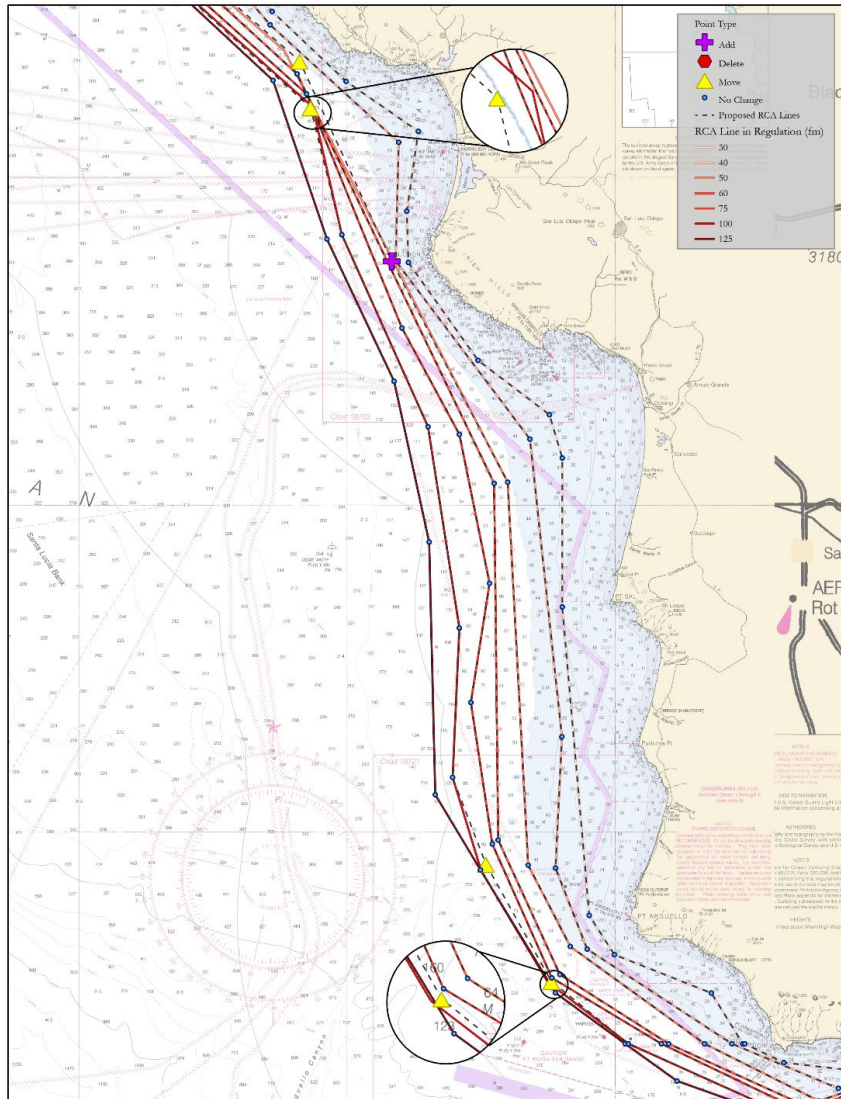


Figure 7. Proposed modifications to the NT-RCA boundary lines in the Morro Bay, CA (crossover corrections).

Table 7. Proposed waypoints for the NT-RCA boundary line modifications in the Morro Bay, CA area (crossover corrections).

CDFW Cat.	Fathom Line	Waypoint Number	Action	Old Lat Deg	Old Lat Min	Old Long Deg	Old Long Min	New Lat Deg	New Lat Min	New Long Deg	New Long Min
4	100	273	Move	35	24.30	121	2.56	35	24.27	121	2.74
4	100	278	Move	34	37.64	120	49.99	34	38.06	120	49.65
4	100	279	Move	34	30.80	120	45.02	34	30.85	120	44.76
4	50	132*	Move	35	40.38	121	22.59	35	40.44	121	22.43
4	50	133	Move	35	27.74	121	4.69	35	27.11	121	3.55
4	50	133.1	Add					35	14.91	120	56.67

*Waypoint #132 is not included in Figure 7 due to scale.

South of 34°27' N latitude

South of Point Conception ($34^{\circ}27'N$ latitude), the NT-RCA for the commercial fishery is from 100 fathoms to 150 fathoms and is seaward of 100 fathoms for the recreational fishery (Figure 8 through Figure 17 and Table 8 through Table 17).

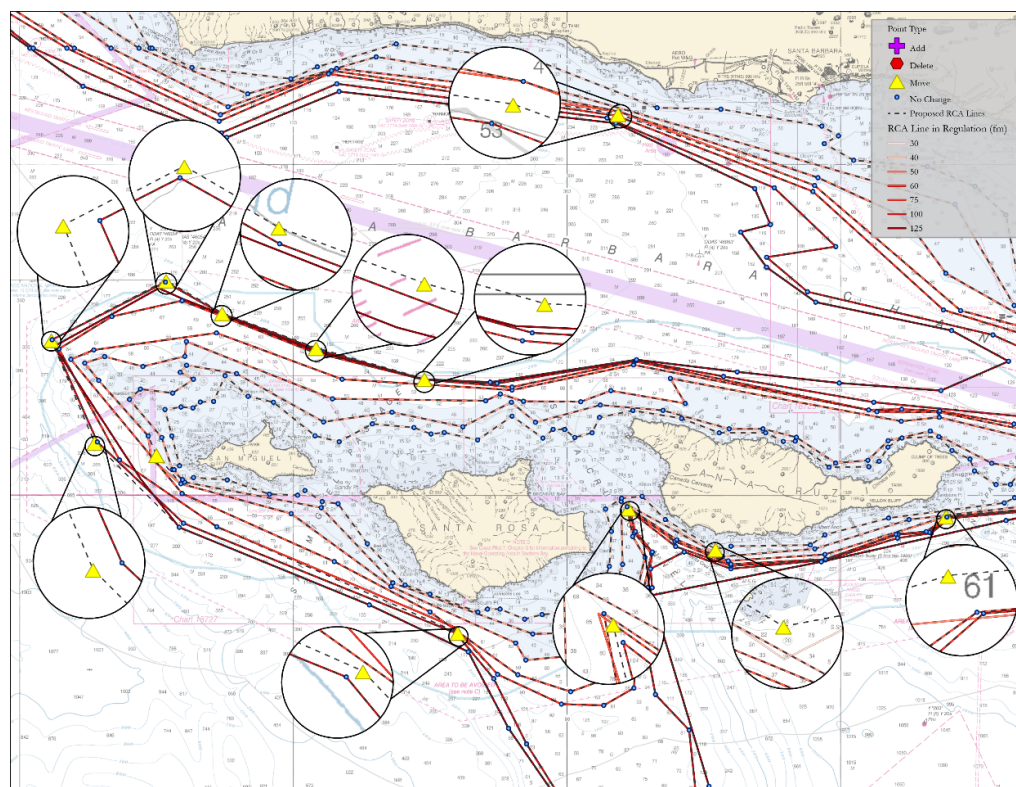


Figure 8. Proposed modifications to the NT-RCA boundary lines around Santa Barbara, CA, and the northern Channel Islands (crossover corrections).

Table 8. Proposed waypoints for the NT-RCA boundary line modifications around Santa Barbara, CA, and the northern Channel Islands (crossover corrections).

CDFW Cat.	Fathom Line	Waypoint Number	Action	Old Lat Deg	Old Lat Min	Old Long Deg	Old Long Min	New Lat Deg	New Lat Min	New Long Deg	New Long Min
4	125	318	Move	34	7.03	120	10.47	34	7.06	120	10.42
4	125	319	Move	34	8.77	120	18.46	34	8.93	120	18.34
4	125	320	Move	34	11.89	120	28.09	34	11.04	120	25.20
4	125	321	Move	34	12.53	120	29.82	34	13.01	120	29.29
4	125	322	Move	34	9.02	120	37.47	34	9.41	120	37.69
4	125	323	Move	34	1.01	120	31.17	34	3.20	120	34.52
4	75	29*	Move	33	52.00	120	8.15	33	51.69	120	7.98
4	60	155	Move	34	23.18	119	56.17	34	23.05	119	56.25
4	60	17*	Move	33	59.32	119	55.65	33	59.22	119	55.49
4	50	18*	Move	33	58.68	119	32.36	33	58.76	119	32.27
4	50	33*	Move	34	2.20	120	30.37	34	2.47	120	30.00
4	30	13*	Move	33	56.45	119	49.12	33	56.75	119	49.13

*Waypoint numbering deviates and follows the Code of Federal Regulations Section 660.72 (k) as part of “Around the Northern Channel Islands” RCA section.

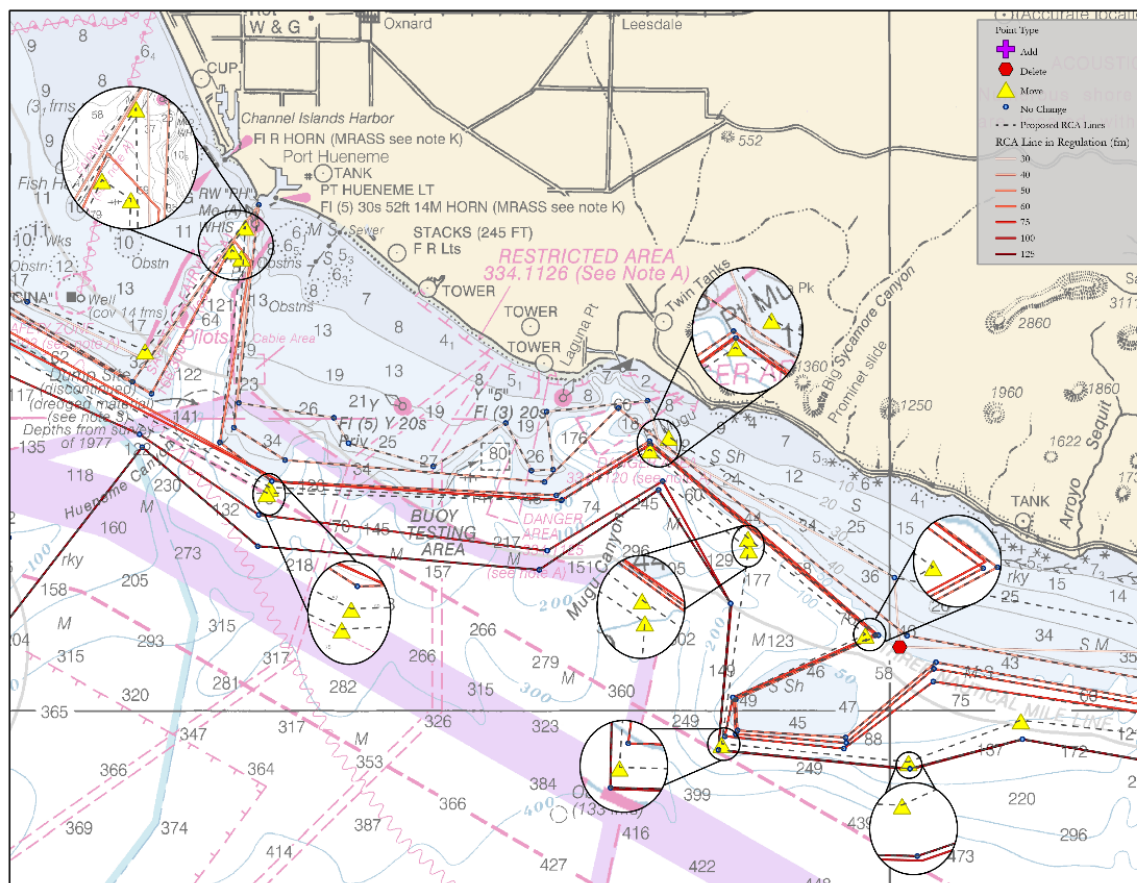


Figure 9. Proposed modifications to the NT-RCA boundary lines near Port Hueneme, CA (crossover corrections).

Table 9. Proposed waypoints for the NT-RCA boundary line modifications near Port Hueneme, CA (crossover corrections).

CDFW Cat.	Fathom Line	Waypoint Number	Action	Old Lat Deg	Old Lat Min	Old Long Deg	Old Long Min	New Lat Deg	New Lat Min	New Long Deg	New Long Min
4	100	293	Move	34	1.80	119	3.23	34	2.75	119	2.88
4	100	294	Move	33	59.32	119	3.50	33	59.44	119	3.43
4	100	295	Move	33	59.00	118	59.55	33	59.12	118	59.59
4	100	296	Move	33	59.51	118	57.25	33	59.84	118	57.29
4	75	206	Move	34	3.89	119	12.47	34	3.70	119	12.77
4	75	208	Move	34	4.53	119	4.90	34	4.44	119	4.90
4	75	209	Move	34	2.84	119	2.37	34	2.94	119	2.89
4	75	210	Move	34	1.30	119	0.26	34	1.30	119	0.48
4	60	159	Move	34	3.88	119	12.46	34	3.80	119	12.70
4	50	146	Move	34	7.98	119	13.43	34	7.83	119	13.48
4	50	147	Move	34	7.64	119	13.10	34	7.71	119	13.29
4	40	180	Move	34	8.60	119	12.93	34	8.23	119	13.21
4	30	264	Move	34	5.93	119	15.17	34	6.13	119	15.26
4	30	275	Move	34	4.51	119	4.70	34	4.66	119	4.51
4	30	277	Delete	34	1.08	118	59.77				

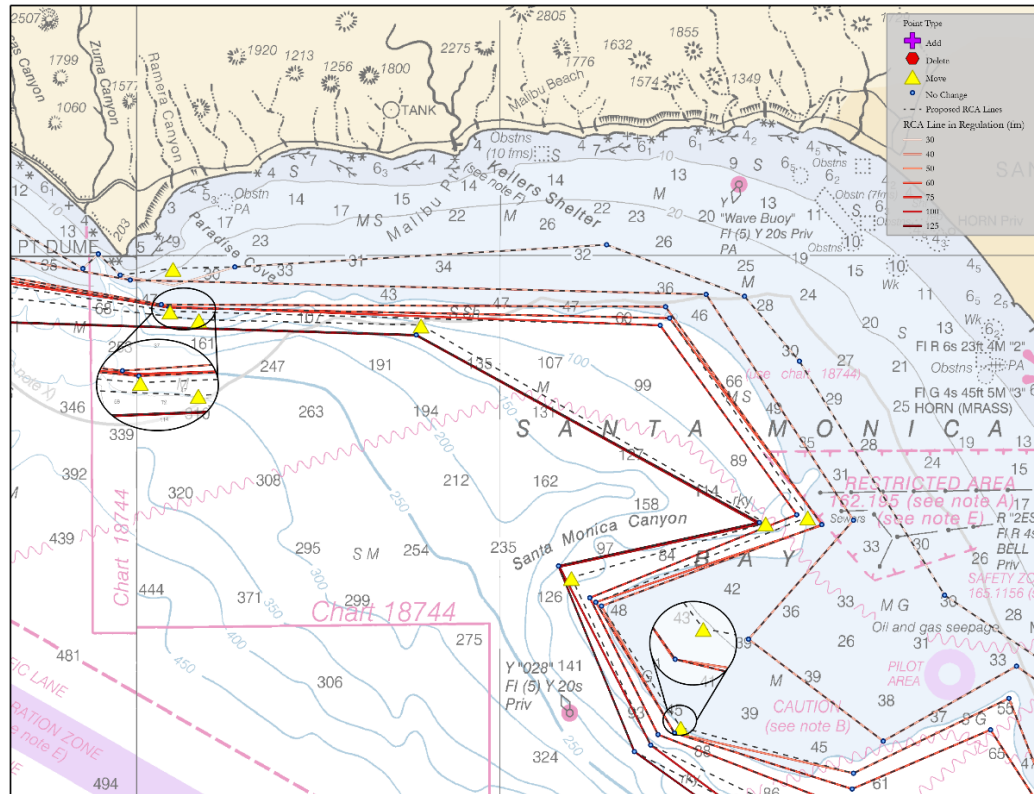


Figure 10. Proposed modifications to the NT- RCA boundary lines in the northern area of Santa Monica Bay, CA (crossover corrections).

Table 10. Proposed waypoints for the NT- RCA boundary line modifications in the northern area of Santa Monica Bay, CA (crossover corrections).

CDFW Cat.	Fathom Line	Waypoint Number	Action	Old Lat Deg	Old Lat Min	Old Long Deg	Old Long Min	New Lat Deg	New Lat Min	New Long Deg	New Long Min
4	100	297	Move	33	58.82	118	52.47	33	58.83	118	46.69
4	100	298	Move	33	58.54	118	41.86	33	58.73	118	41.76
4	100	299	Move	33	55.07	118	34.25	33	55.09	118	34.11
4	100	300	Move	33	54.28	118	38.68	33	54.09	118	38.42
4	75	215	Move	33	59.07	118	47.34	33	58.99	118	47.33
4	60	169	Move	33	55.05	118	32.85	33	55.20	118	33.18
4	50	161	Move	33	51.22	118	36.14	33	51.33	118	36.00
4	30	282	Move	33	59.46	118	47.25	33	59.78	118	47.26

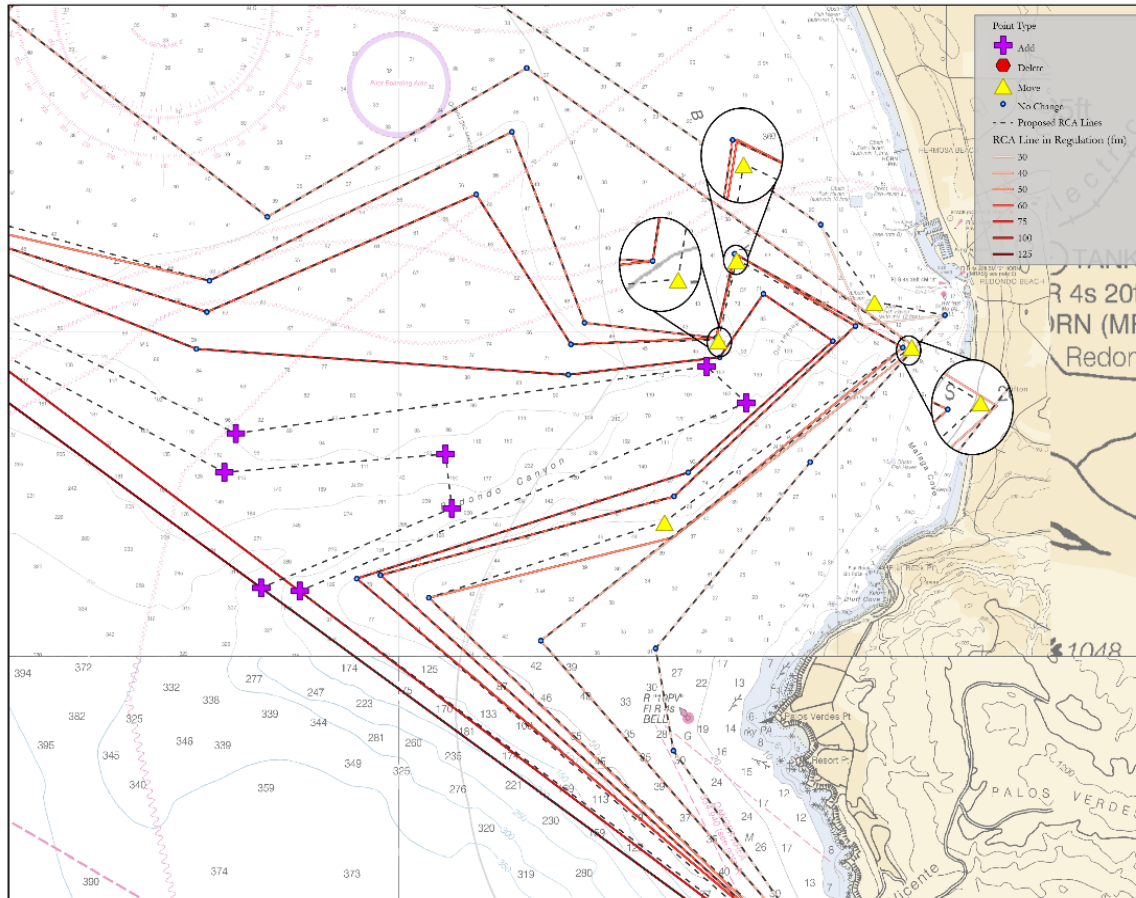


Figure 11. Proposed added waypoint modifications around Redondo Canyon (enforcement concerns) and modifications to NT-RCA boundary lines in the southern portion of Santa Monica Bay (crossover corrections).

Table 11. Proposed added waypoints around Redondo Canyon (enforcement concerns) and modifications to the NT-RCA boundary lines in the southern portion of Santa Monica Bay (crossover corrections).

CDFW Cat.	Fathom Line	Waypoint Number	Action	Old Lat Deg	Old Lat Min	Old Long Deg	Old Long Min	New Lat Deg	New Lat Min	New Long Deg	New Long Min
2	125	349.1	Add					33	48.70	118	31.99
2	125	349.2	Add					33	48.87	118	29.47
2	125	349.3	Add					33	48.37	118	29.40
2	125	349.4	Add					33	47.63	118	31.57
2	100	301.1	Add					33	49.06	118	31.86
2	100	301.2	Add					33	49.69	118	26.49
2	100	301.3	Add					33	49.35	118	26.04
2	100	301.4	Add					33	47.60	118	31.13
4	60	175	Move	33	49.95	118	26.38	33	49.93	118	26.36
4	60	176	Move	33	50.73	118	26.16	33	50.68	118	26.15
4	50	168	Move	33	48.10	118	26.87	33	48.25	118	26.97
4	40	192	Move	33	49.86	118	24.10	33	49.87	118	24.15
4	30	289	Move	33	50.07	118	24.70	33	50.29	118	24.58

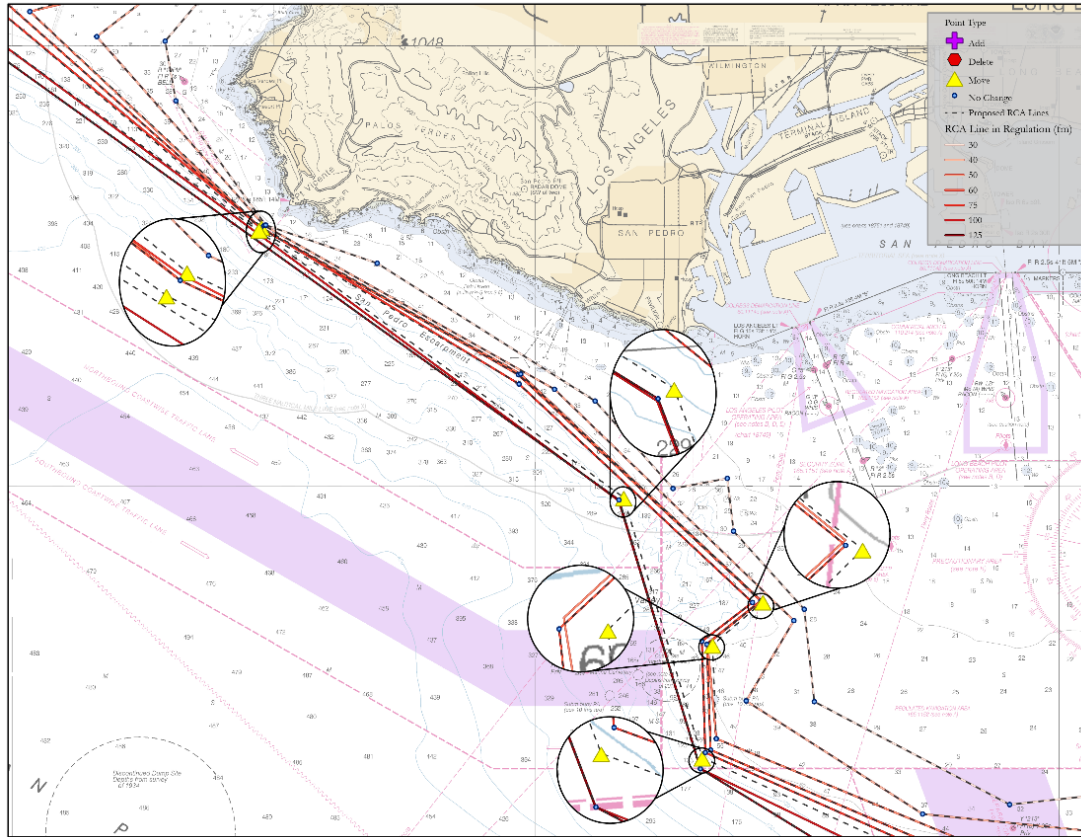


Figure 12. Proposed modifications to the NT-RCA boundary lines around Point Vincente, CA (crossover corrections).

Table 12. Proposed waypoints for the NT-RCA boundary lines modifications around Point Vincente, CA (crossover corrections).

CDFW Cat.	Fathom Line	Waypoint Number	Action	Old Lat Deg	Old Lat Min	Old Long Deg	Old Long Min	New Lat Deg	New Lat Min	New Long Deg	New Long Min
4	100	302	Move	33	39.77	118	18.41	33	39.82	118	18.31
4	100	303	Move	33	35.50	118	16.85	33	35.68	118	16.81
4	75	227	Move	33	44.11	118	25.25	33	44.07	118	25.28
4	50	170	Move	33	44.10	118	25.25	33	44.11	118	25.23
4	50	172	Move	33	38.18	118	15.69	33	38.16	118	15.65
4	50	173	Move	33	37.50	118	16.71	33	37.47	118	16.62

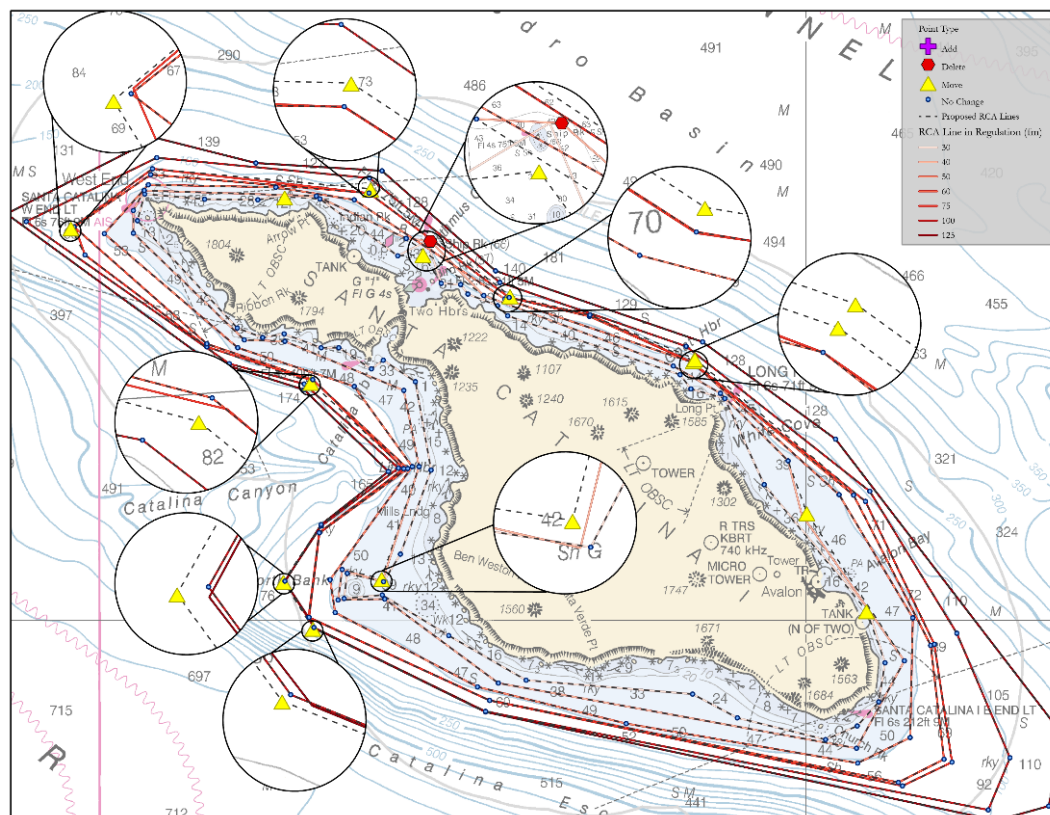


Figure 13. Proposed modifications to the NT-RCA boundary lines around Santa Catalina Island (crossover corrections).

Table 13. Proposed waypoints for the NT-RCA boundary line modifications around Santa Catalina Island (crossover corrections).

CDFW Cat.	Fathom Line	Waypoint Number	Action	Old Lat Deg	Old Lat Min	Old Long Deg	Old Long Min	New Lat Deg	New Lat Min	New Long Deg	New Long Min
4	125	12	Move	33	19.83	118	32.16	33	19.85	118	32.25
4	125	13	Move	33	20.81	118	32.94	33	20.82	118	32.98
4	75	1	Move	33	28.17	118	38.16	33	28.13	118	38.25
4	75	3	Move	33	28.85	118	30.85	33	28.94	118	30.81
4	75	4	Move	33	26.69	118	27.37	33	26.73	118	27.35
4	75	6	Move	33	25.35	118	22.83	33	25.42	118	22.76
4	75	15	Move	33	24.96	118	32.21	33	24.94	118	32.29
4	75	18	Move	33	28.17	118	38.16	33	28.13	118	38.25
4	60	6	Move	33	25.35	118	22.83	33	25.39	118	22.80
4	40	8	Move	33	20.81	118	30.52	33	20.88	118	30.54
4	40	15	Move	33	22.20	118	20.11	33	22.24	118	19.99
4	40	20	Delete	33	27.85	118	29.33				
4	30	27	Move	33	28.81	118	32.95	33	28.77	118	32.95
4	30	30	Move	33	27.86	118	29.41	33	27.58	118	29.51
4	30	40	Move	33	20.23	118	18.45	33	20.21	118	18.50

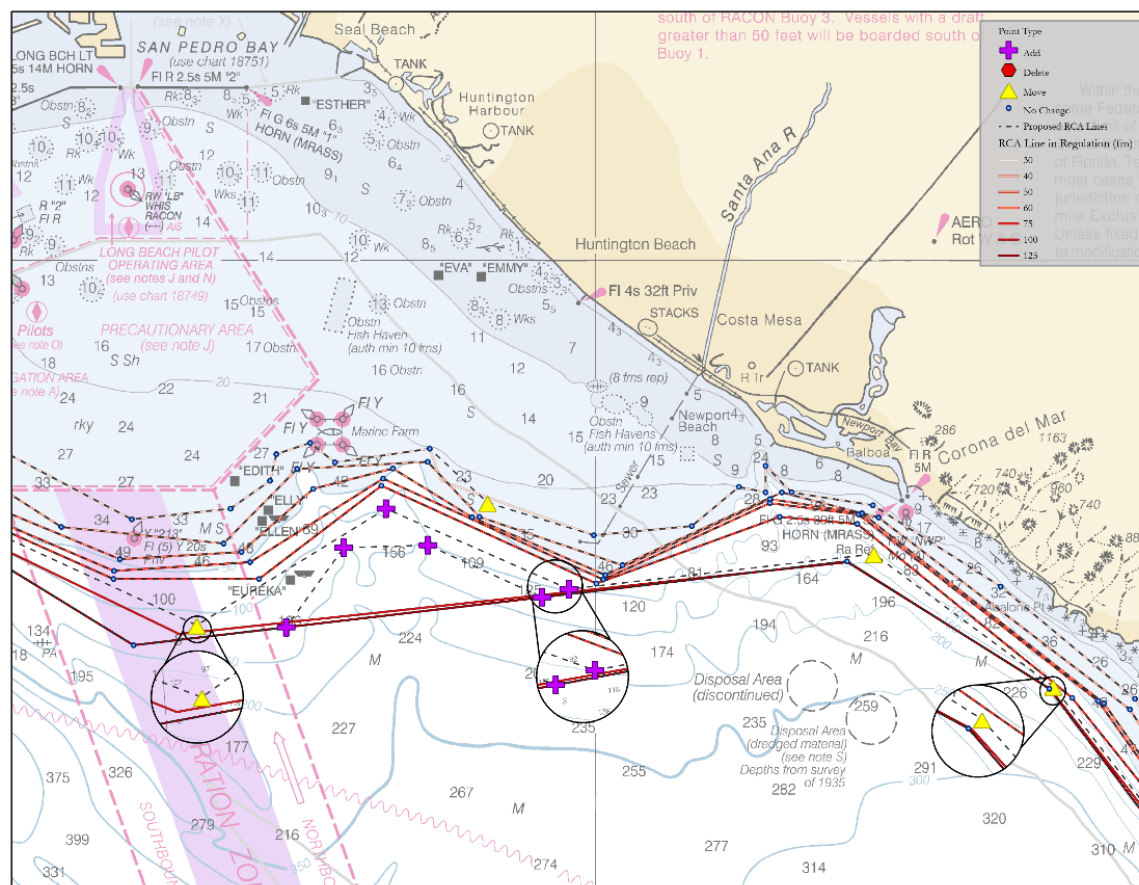


Figure 14. Proposed added waypoint modifications near the oil platforms off Huntington Beach, CA (enforcement concerns) and additional NT-RCA boundary line modifications (crossover corrections).

Table 14. Proposed added waypoints near the oil platforms off Huntington Beach, CA (enforcement concerns) and modifications to the NT-RCA boundary lines (crossover corrections).

CDFW Cat.	Fathom Line	Waypoint Number	Action	Old Lat Deg	Old Lat Min	Old Long Deg	Old Long Min	New Lat Deg	New Lat Min	New Long Deg	New Long Min
2	125	352.1	Add					33	32.81	118	7.30
2	125	352.2	Add					33	34.38	118	5.94
2	125	352.3	Add					33	34.42	118	3.95
2	125	352.4	Add					33	33.40	118	1.26
2	100	304	Move	33	32.68	118	9.82	33	32.85	118	9.41
2	100	304.1	Add					33	35.14	118	4.95
2	100	304.2	Add					33	33.56	118	0.63
2	100	305	Move	33	34.09	117	54.06	33	34.25	117	53.44
4	100	306	Move	33	31.60	117	49.28	33	31.65	117	49.21
4	30	309	Move	33	35.69	118	3.64	33	35.26	118	2.55

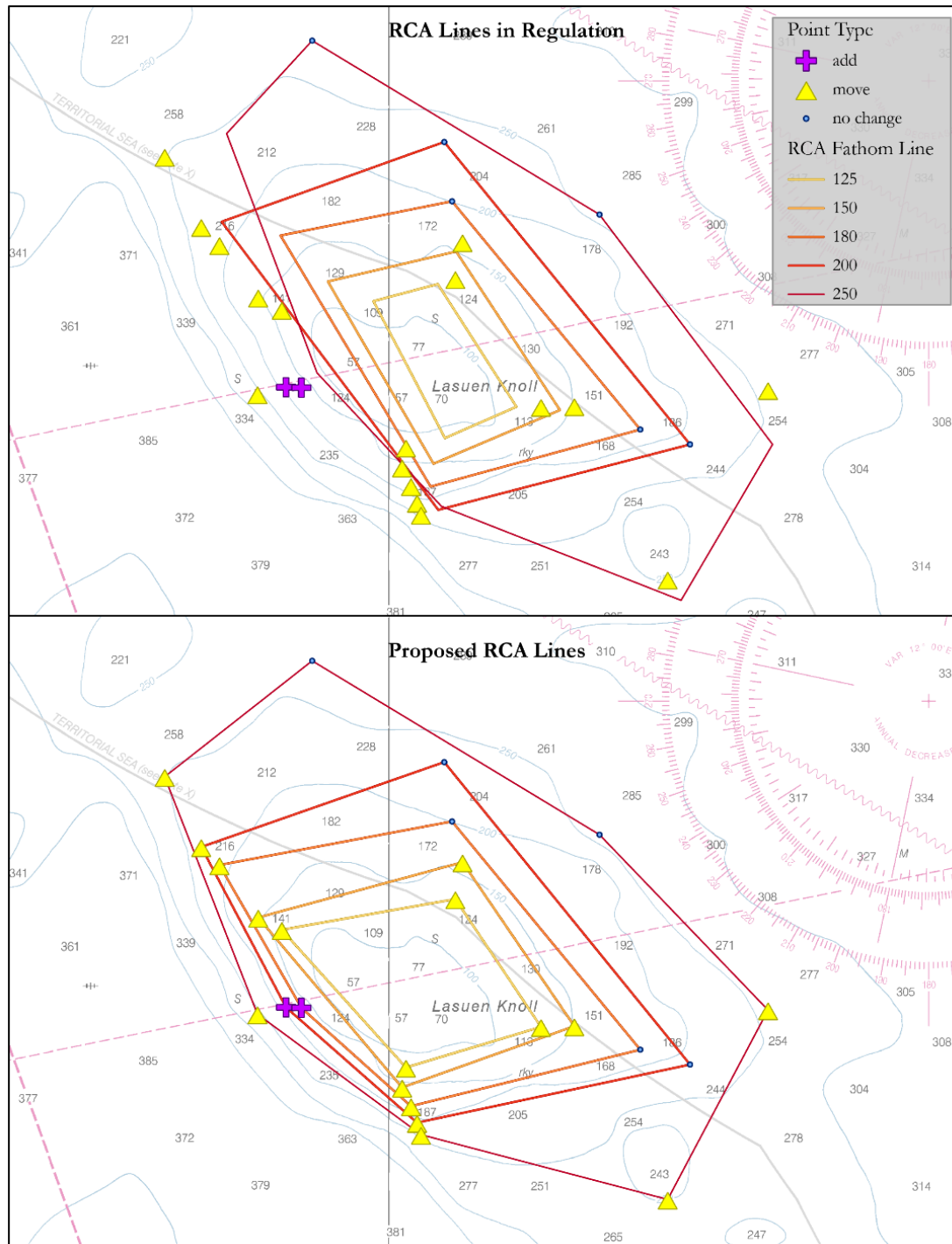


Figure 15. Proposed modifications to the NT-RCA boundary lines in the area around Lasuen Knoll (enforcement concerns).

Table 15. Proposed waypoints for the NT-RCA boundary line modifications in the area around Lasuen Knoll (enforcement concerns).

CDFW Cat.	Fathom Line	Waypoint Number	Action	Old Lat Deg	Old Lat Min	Old Long Deg	Old Long Min	New Lat Deg	New Lat Min	New Long Deg	New Long Min
2	250	3	Move	33	23.37	117	56.14	33	23.83	117	56.19
2	250	4	Move	33	22.06	117	57.06	33	22.24	117	57.20
2	250	5	Move	33	22.85	117	59.47	33	22.78	117	59.68
2	250	6	Move	33	23.97	118	0.72	33	23.79	118	1.32
2	250	7	Move	33	25.98	118	1.63	33	25.79	118	2.25
2	200	3	Move	33	22.82	117	59.50	33	22.88	117	59.72
2	200	3.1	Add					33	23.85	118	1.03
2	200	4	Move	33	25.24	118	1.68	33	25.20	118	1.89
2	180	1	Move	33	25.12	118	1.09	33	25.05	118	1.70
2	180	4	Move	33	23.02	117	59.58	33	23.02	117	59.78
2	180	4.1	Add					33	23.85	118	0.88
2	180	5	Move	33	25.12	118	1.09	33	25.05	118	1.70
2	150	1	Move	33	24.99	117	59.32	33	25.07	117	59.26
2	150	2	Move	33	23.66	117	58.28	33	23.69	117	58.13
2	150	3	Move	33	23.21	117	59.55	33	23.18	117	59.87
2	150	4	Move	33	24.74	118	0.61	33	24.61	118	1.31
2	150	5	Move	33	24.99	117	59.32	33	25.07	117	59.26
2	125	1	Move	33	24.57	118	0.15	33	24.50	118	1.08
2	125	2	Move	33	23.42	117	59.43	33	23.35	117	59.83
2	125	3	Move	33	23.69	117	58.72	33	23.69	117	58.47
2	125	4	Move	33	24.72	117	59.51	33	24.76	117	59.33
2	125	5	Move	33	24.57	118	0.15	33	24.50	118	1.08

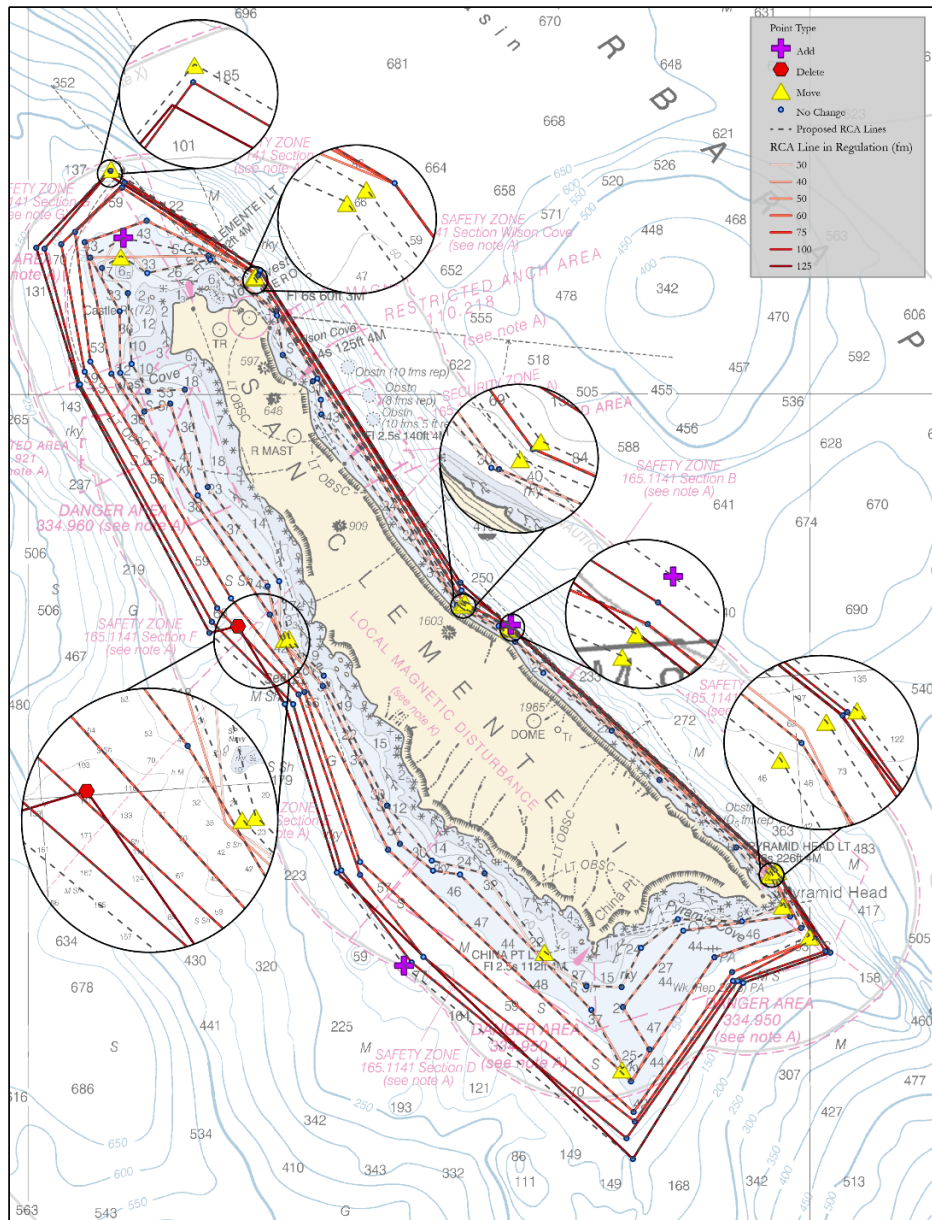


Figure 16. Proposed modifications to the NT-RCA boundary lines Around Santa Clemente Island (crossovers corrections).

Table 16. Proposed waypoints for the NT-RCA boundary line modifications Around Santa Clemente Island (crossover corrections).

CDFW Cat.	Fathom Line	Waypoint Number	Action	Old Lat Deg	Old Lat Min	Old Long Deg	Old Long Min	New Lat Deg	New Lat Min	New Long Deg	New Long Min
4	125	1	Move	33	4.73	118	37.99	33	4.86	118	37.89
4	125	3.1	Add					32	55.06	118	27.66
4	125	4	Move	32	49.79	118	20.89	32	49.79	118	20.84
4	125	7.1	Add					32	47.74	118	30.39
4	125	10	Delete	32	55.03	118	34.64				
4	125	14	Move	33	4.73	118	37.99	33	4.86	118	37.89
4	75	3	Move	32	55.54	118	28.87	32	55.57	118	28.84

CDFW Cat.	Fathom Line	Waypoint Number	Action	Old Lat Deg	Old Lat Min	Old Long Deg	Old Long Min	New Lat Deg	New Lat Min	New Long Deg	New Long Min
4	60	2	Move	33	2.56	118	34.12	33	2.56	118	34.19
4	60	4	Move	32	55.02	118	27.69	32	55.01	118	27.70
4	60	5	Move	32	49.78	118	20.88	32	49.77	118	20.92
4	60	6	Move	32	48.32	118	19.89	32	48.38	118	20.02
4	50	2	Move	33	2.56	118	34.12	33	2.53	118	34.25
4	50	3	Move	32	55.54	118	28.87	32	55.51	118	28.92
4	50	4	Move	32	55.02	118	27.69	32	54.99	118	27.72
4	40	8	Move	32	54.75	118	33.57	32	54.78	118	33.44
4	40	14	Move	32	45.24	118	24.55	32	45.53	118	24.82
4	40	19	Move	32	49.76	118	20.98	32	49.70	118	21.04
4	40	24.1	Add					33	3.36	118	37.57
4	30	1	Move	33	3.37	118	37.76	33	2.98	118	37.64
4	30	9	Move	32	54.76	118	33.58	32	54.79	118	33.34
4	30	14	Move	32	47.88	118	26.90	32	48.05	118	26.81
4	30	20	Move	32	49.06	118	20.53	32	49.04	118	20.71
4	30	34	Move	33	3.37	118	37.76	33	2.98	118	37.64

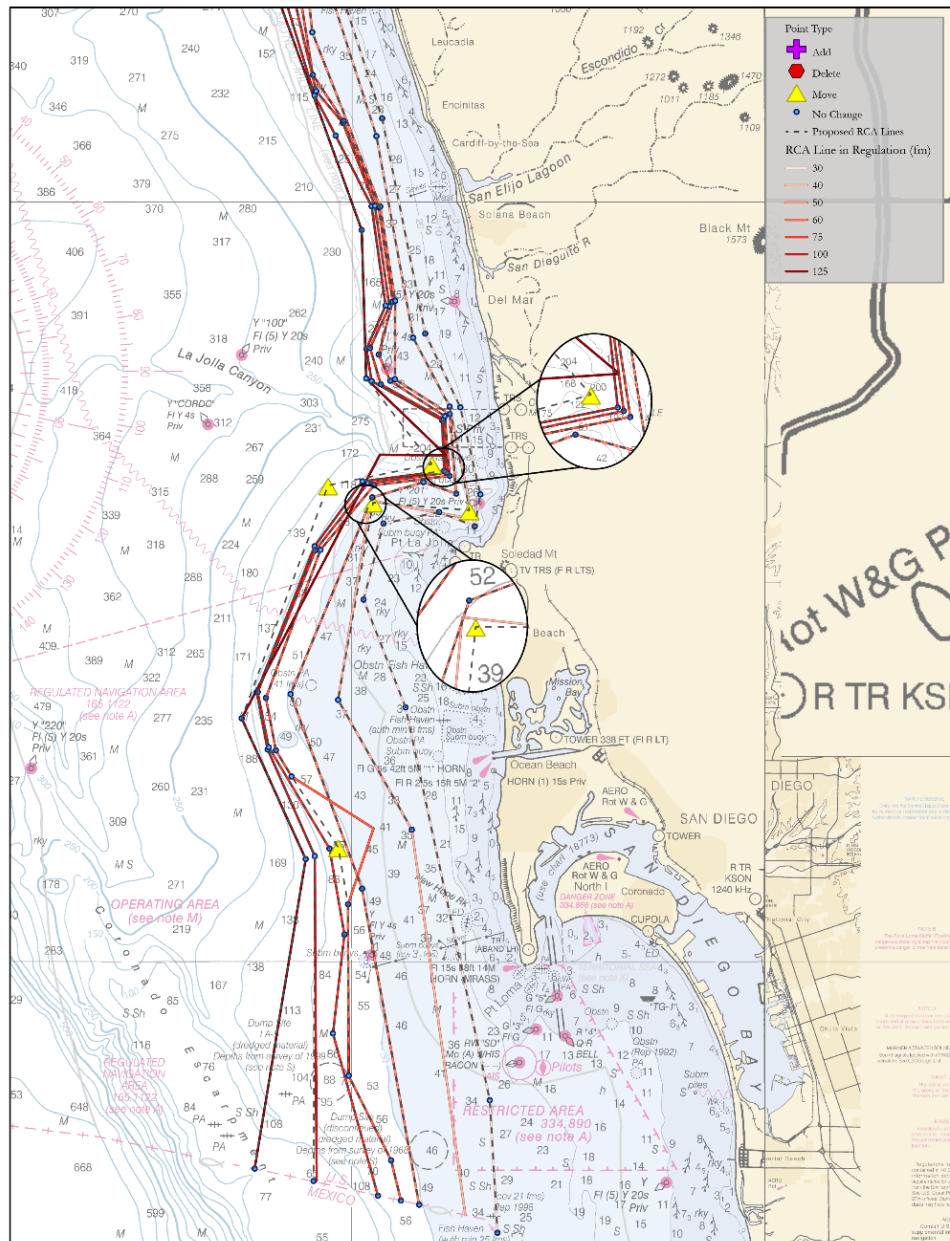


Figure 17. Proposed modifications to the NT-RCA boundary lines off San Diego, CA (crossover corrections).

Table 17. Proposed waypoints for the NT-RCA boundary line modifications off San Diego, CA (crossover corrections).

CDFW Cat.	Fathom Line	Waypoint Number	Action	Old Lat Deg	Old Lat Min	Old Long Deg	Old Long Min	New Lat Deg	New Lat Min	New Long Deg	New Long Min
4	125	359	Move	32	53.35	117	17.05	32	53.12	117	17.49
4	125	360	Move	32	53.36	117	19.12	32	52.56	117	20.75
4	60	208	Move	32	43.52	117	19.32	32	43.03	117	20.43
4	40	214	Move	32	51.67	117	16.21	32	51.90	117	16.32
4	40	215	Move	32	52.16	117	19.41	32	52.11	117	19.33

Cowcod Conservation Areas

The NT-RCA is currently specified seaward of 40 fathoms for both the commercial and recreational fisheries inside the CCAs (*Figure 19 through Figure 25 and Table 18 through Table 24*).

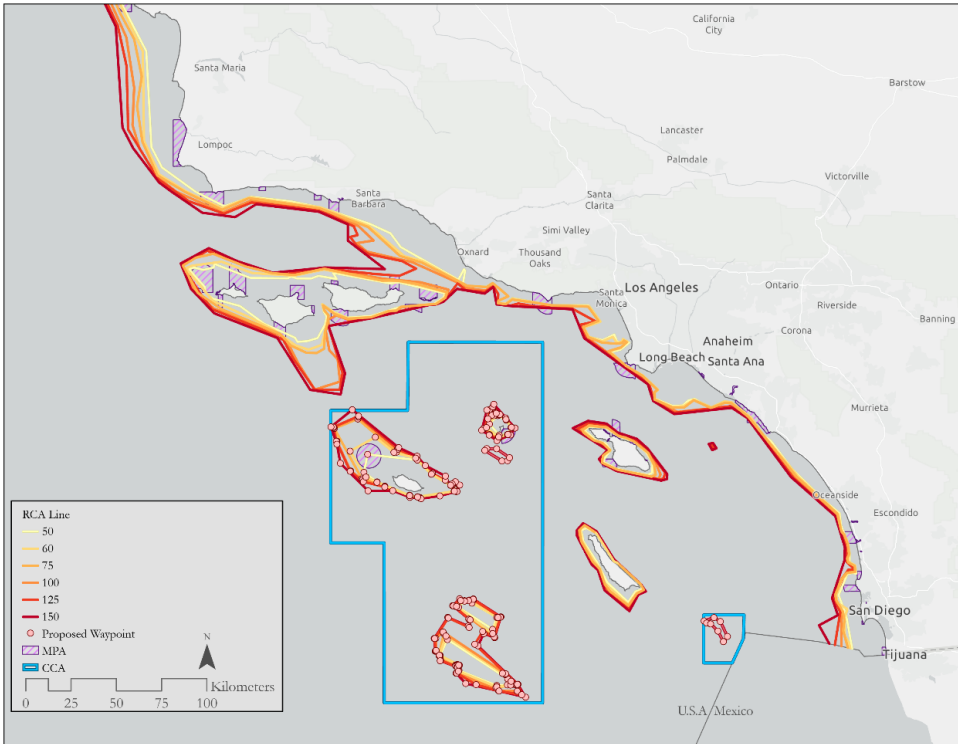


Figure 18. Overview of the CCAs within the southern California bight and the proposed 50, 60, 75, 100, 125 and 150 fathom NT-RCA boundary lines.

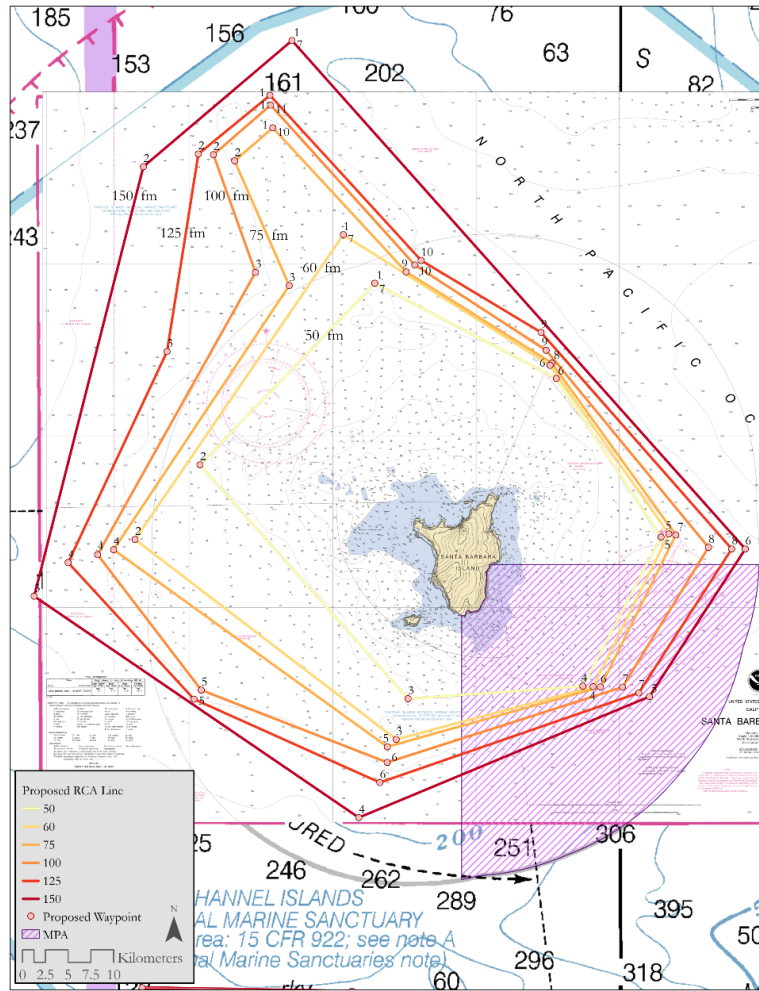


Figure 19. Proposed 50, 60, 75, 100, 125, and 150 fathom NT-RCA boundary lines around Santa Barbara Island. (Zoomed-in view of content depicted in Figure 18).

Table 18. Proposed waypoints for the NT-RCA boundary lines around Santa Barbara Island, including corrected coordinates (shaded grey).

CDFW Cat.	Fathom Line	Waypoint Number	Action	New Lat Deg	New Lat Min	New Long Deg	New Long Min
1	150	1	Add	33	34.60	119	4.57
1	150	2	Add	33	33.13	119	6.65
1	150	3	Add	33	28.13	119	8.17
1	150	4	Add	33	25.55	119	3.64
1	150	5	Add	33	26.96	118	59.58
1	150	6	Add	33	28.68	118	58.24
1	150	7	Add	33	34.60	119	4.57
1	125	1	Add	33	33.96	119	4.88
1	125	2	Add	33	33.28	119	5.88
1	125	3	Add	33	30.98	119	6.32
1	125	4	Add	33	28.52	119	7.70
1	125	5	Add	33	26.93	119	5.94
1	125	6	Add	33	25.96	119	3.34
1	125	7	Add	33	27.01	118	59.73

CDFW Cat.	Fathom Line	Waypoint Number	Action	New Lat Deg	New Lat Min	New Long Deg	New Long Min
1	125	8	Add	33	28.68	118	58.43
1	125	9	Add	33	31.20	119	1.09
1	125	10	Add	33	32.04	119	2.77
1	125	11	Add	33	33.96	119	4.88
1	100	1	Add	33	33.85	119	4.87
1	100	2	Add	33	33.27	119	5.67
1	100	3	Add	33	31.90	119	5.08
1	100	4	Add	33	28.62	119	7.28
1	100	5	Add	33	27.04	119	5.84
1	100	6	Add	33	26.20	119	3.24
1	100	7	Add	33	27.07	118	59.96
1	100	8	Add	33	28.70	118	58.76
1	100	9	Add	33	31.00	119	1.02
1	100	10	Add	33	31.99	119	2.86
1	100	11	Add	33	33.85	119	4.87
1	75	1	Add	33	33.58	119	4.84
1	75	2	Add	33	33.20	119	5.37
1	75	3	Add	33	31.75	119	4.61
1	75	4	Add	33	28.67	119	7.06
1	75	5	Add	33	26.38	119	3.24
1	75	6	Add	33	27.08	119	0.26
1	75	7	Add	33	28.85	118	59.21
1	75	8	Add	33	30.85	119	0.94
1	75	9	Add	33	31.91	119	2.98
1	75	10	Add	33	33.58	119	4.84
1	60	1	Add	33	32.34	119	3.85
1	60	2	Add	33	28.79	119	6.76
1	60	3	Add	33	26.46	119	3.12
1	60	4	Add	33	27.08	119	0.37
1	60	5	Add	33	28.86	118	59.31
1	60	6	Add	33	30.82	119	0.97
1	60	7	Add	33	32.34	119	3.85
1	50	1	Add	33	31.77	119	3.41
1	50	2	Add	33	29.66	119	5.86
1	50	3	Add	33	26.94	119	2.95
1	50	4	Add	33	27.08	119	0.51
1	50	5	Add	33	28.82	118	59.42
1	50	6	Add	33	30.67	119	0.88
1	50	7	Add	33	31.77	119	3.41

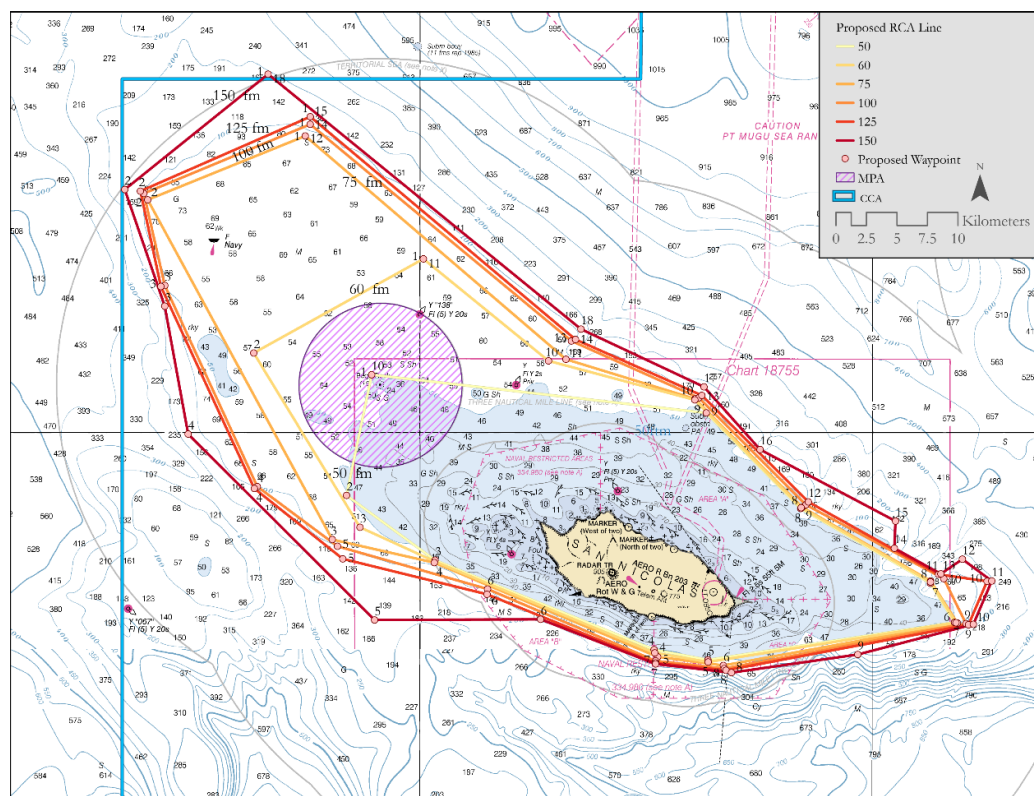


Figure 20. Proposed 50, 60, 75, 100, 125, and 150 fathom NT-RCA boundary lines around San Nicholas Island. (Zoomed-in view of content depicted in *Figure 18*).

Table 19. Proposed waypoints for the NT-RCA boundary lines around San Nicholas Island, including corrected coordinates (shaded grey).

CDFW Cat.	Fathom Line	Waypoint Number	Action	New Lat Deg	New Lat Min	New Long Deg	New Long Min
1	150	1	Add	33	33.22	119	46.70
1	150	2	Add	33	28.97	119	53.04
1	150	3	Add	33	24.67	119	51.27
1	150	4	Add	33	19.95	119	50.23
1	150	5	Add	33	13.07	119	41.99
1	150	6	Add	33	13.10	119	34.66
1	150	7	Add	33	11.45	119	29.57
1	150	8	Add	33	11.13	119	26.22
1	150	9	Add	33	11.80	119	20.64
1	150	10	Add	33	12.91	119	15.53
1	150	11	Add	33	14.52	119	14.72
1	150	12	Add	33	15.32	119	16.01
1	150	13	Add	33	14.78	119	16.97
1	150	14	Add	33	15.73	119	19.02
1	150	15	Add	33	16.73	119	18.97
1	150	16	Add	33	19.37	119	24.95
1	150	17	Add	33	21.69	119	27.44
1	150	18	Add	33	23.82	119	32.87
1	150	19	Add	33	33.22	119	46.70
1	125	1	Add	33	31.65	119	44.84

CDFW Cat.	Fathom Line	Waypoint Number	Action	New Lat Deg	New Lat Min	New Long Deg	New Long Min
1	125	2	Add	33	28.91	119	52.35
1	125	3	Add	33	25.39	119	51.44
1	125	4	Add	33	17.94	119	47.31
1	125	5	Add	33	15.33	119	43.40
1	125	6	Add	33	14.03	119	37.02
1	125	7	Add	33	11.49	119	29.58
1	125	8	Add	33	11.21	119	26.46
1	125	9	Add	33	12.90	119	15.74
1	125	10	Add	33	14.51	119	14.92
1	125	11	Add	33	14.76	119	17.07
1	125	12	Add	33	17.44	119	22.82
1	125	13	Add	33	21.37	119	27.53
1	125	14	Add	33	23.44	119	33.11
1	125	15	Add	33	31.65	119	44.84
1	100	1	Add	33	31.37	119	44.84
1	100	2	Add	33	28.82	119	52.19
1	100	3	Add	33	25.43	119	51.27
1	100	4	Add	33	18.01	119	47.18
1	100	5	Add	33	15.80	119	43.64
1	100	6	Add	33	14.22	119	37.00
1	100	7	Add	33	11.56	119	29.58
1	100	8	Add	33	11.28	119	26.54
1	100	9	Add	33	12.94	119	15.86
1	100	10	Add	33	14.48	119	16.97
1	100	11	Add	33	17.33	119	22.93
1	100	12	Add	33	21.28	119	27.66
1	100	13	Add	33	23.38	119	33.29
1	100	14	Add	33	31.37	119	44.84
1	75	1	Add	33	30.94	119	45.06
1	75	2	Add	33	28.59	119	52.02
1	75	3	Add	33	16.05	119	43.86
1	75	4	Add	33	15.20	119	39.36
1	75	5	Add	33	11.71	119	29.48
1	75	6	Add	33	11.39	119	26.58
1	75	7	Add	33	12.96	119	16.23
1	75	8	Add	33	14.52	119	17.42
1	75	9	Add	33	17.24	119	23.09
1	75	10	Add	33	21.24	119	27.83
1	75	11	Add	33	22.71	119	33.54
1	75	12	Add	33	30.94	119	45.06
1	60	1	Add	33	26.41	119	39.84
1	60	2	Add	33	22.94	119	47.34
1	60	3	Add	33	16.39	119	42.64
1	60	4	Add	33	11.86	119	29.61
1	60	5	Add	33	11.52	119	27.25
1	60	6	Add	33	12.97	119	16.30
1	60	7	Add	33	14.48	119	17.42
1	60	8	Add	33	17.23	119	23.14
1	60	9	Add	33	21.21	119	27.84
1	60	10	Add	33	22.65	119	34.31
1	60	11	Add	33	26.41	119	39.84

CDFW Cat.	Fathom Line	Waypoint Number	Action	New Lat Deg	New Lat Min	New Long Deg	New Long Min
1	50	1	Add	33	22.14	119	42.12
1	50	2	Add	33	17.68	119	43.24
1	50	3	Add	33	15.29	119	39.32
1	50	4	Add	33	11.98	119	29.64
1	50	5	Add	33	11.60	119	27.26
1	50	6	Add	33	12.99	119	16.36
1	50	7	Add	33	14.43	119	17.42
1	50	8	Add	33	17.20	119	23.16
1	50	9	Add	33	20.73	119	27.33
1	50	10	Add	33	22.14	119	42.12

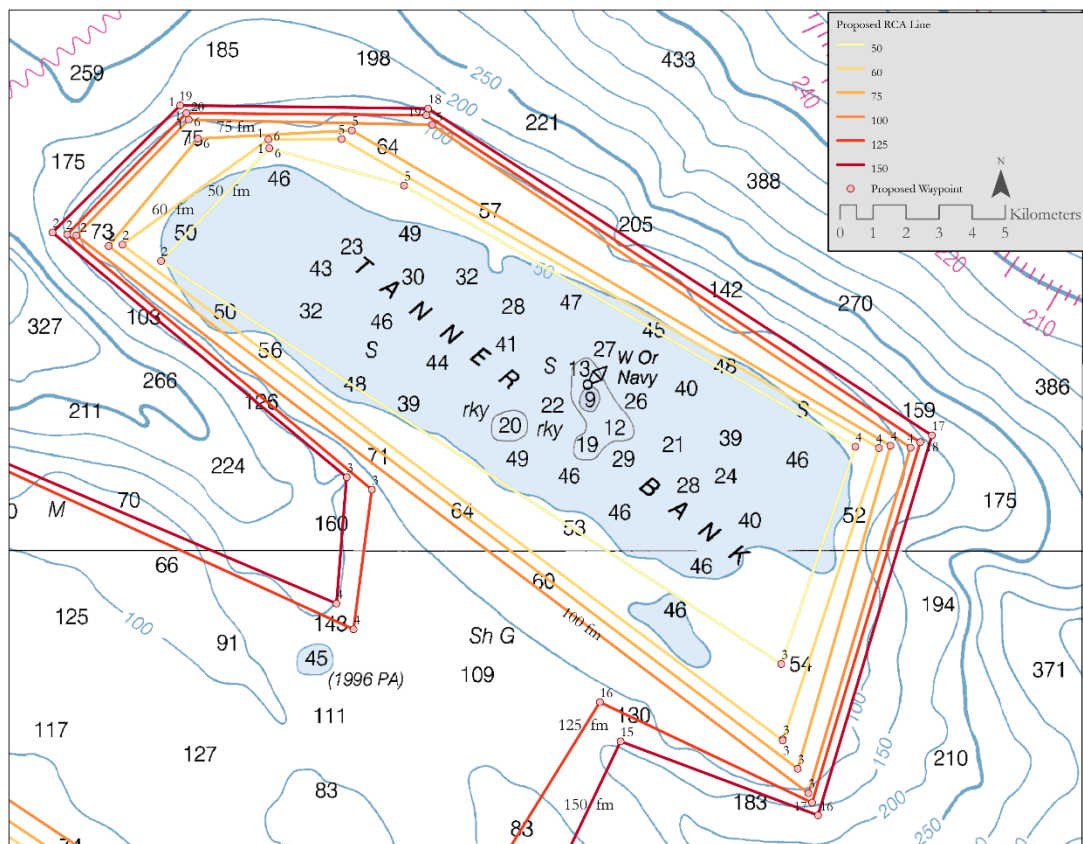


Figure 21. Proposed 50, 60, 75 and 100 fathom NT-RCA boundary lines around Tanner Bank. (Zoomed-in view of content depicted in *Figure 18*).

Table 20. Proposed waypoints for the NT-RCA boundary lines around Tanner Bank, including corrected coordinates (shaded grey).

CDFW Cat.	Fathom Line	Waypoint Number	Action	New Lat Deg	New Lat Min	New Long Deg	New Long Min
1	100	1	Add	32	45.92	119	14.60
1	100	2	Add	32	44.34	119	16.43
1	100	3	Add	32	36.75	119	4.51
1	100	4	Add	32	41.41	119	2.93

1	100	5	Add	32	45.85	119	10.62
1	100	6	Add	32	45.92	119	14.60
1	75	1	Add	32	45.66	119	14.45
1	75	2	Add	32	44.19	119	15.90
1	75	3	Add	32	37.02	119	4.65
1	75	4	Add	32	41.45	119	3.14
1	75	5	Add	32	45.77	119	11.93
1	75	6	Add	32	45.66	119	14.45
1	60	1	Add	32	45.65	119	13.29
1	60	2	Add	32	44.21	119	15.68
1	60	3	Add	32	37.40	119	4.89
1	60	4	Add	32	41.42	119	3.32
1	60	5	Add	32	45.66	119	12.10
1	60	6	Add	32	45.65	119	13.29
1	50	1	Add	32	45.53	119	13.28
1	50	2	Add	32	43.98	119	15.05
1	50	3	Add	32	38.45	119	4.92
1	50	4	Add	32	41.44	119	3.71
1	50	5	Add	32	45.02	119	11.08
1	50	6	Add	32	45.53	119	13.28

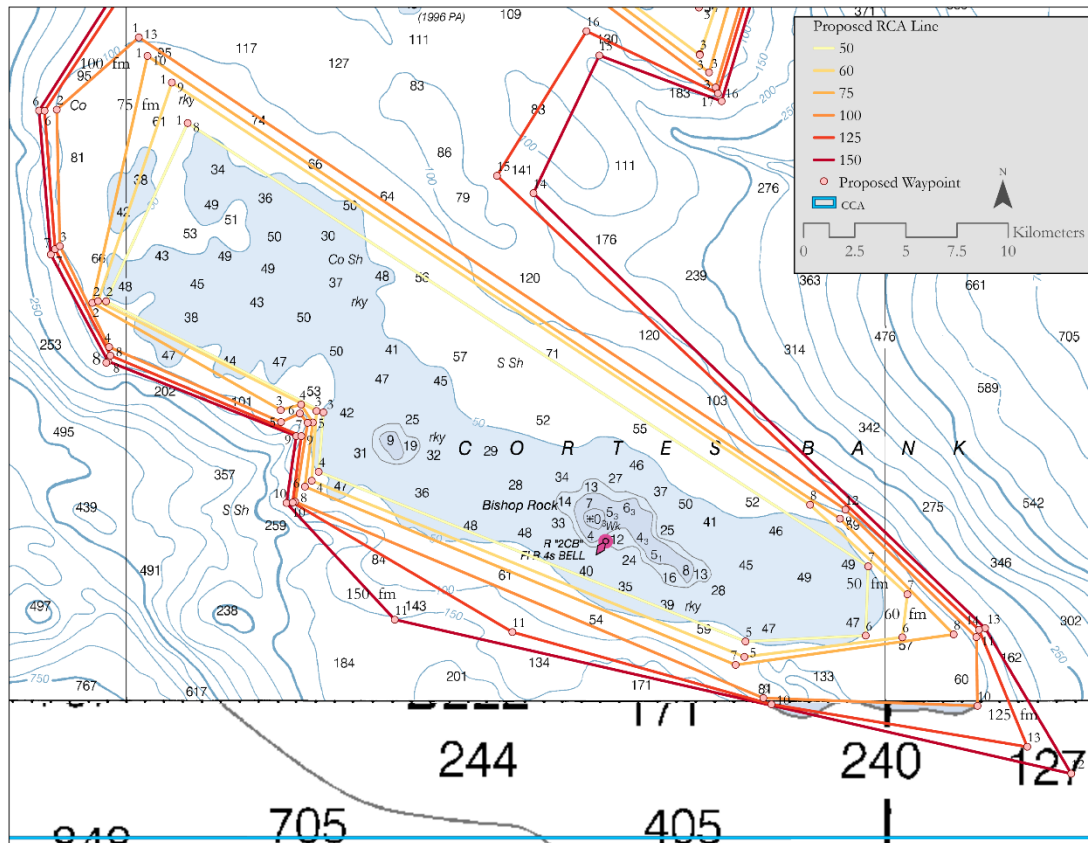


Figure 22. Proposed 50, 60, 75 and 100 NT-RCA boundary lines around Cortes Bank. (Zoomed-in view of content depicted in Figure 18).

Table 21. Proposed waypoints for the NT-RCA boundary lines around Cortes Bank, including corrected coordinates (shaded grey).

CDFW Cat.	Fathom Line	Waypoint Number	Action	New Lat Deg	New Lat Min	New Long Deg	New Long Min
1	100	1	Add	32	37.79	119	19.68
1	100	2	Add	32	36.19	119	21.84
1	100	3	Add	32	33.16	119	21.76
1	100	4	Add	32	30.92	119	20.46
1	100	5	Add	32	29.25	119	15.93
1	100	6	Add	32	29.44	119	15.44
1	100	7	Add	32	29.23	119	15.23
1	100	8	Add	32	27.48	119	15.56
1	100	9	Add	32	23.19	119	3.23
1	100	10	Add	32	22.94	118	57.58
1	100	11	Add	32	24.47	118	57.61
1	100	12	Add	32	27.30	119	1.06
1	100	13	Add	32	37.79	119	19.68
1	75	1	Add	32	37.38	119	19.45
1	75	2	Add	32	31.90	119	20.90
1	75	3	Add	32	29.52	119	15.94
1	75	4	Add	32	29.64	119	15.40
1	75	5	Add	32	29.24	119	15.09
1	75	6	Add	32	27.82	119	15.30
1	75	7	Add	32	23.85	119	3.95
1	75	8	Add	32	24.53	118	58.20
1	75	9	Add	32	27.10	119	1.20
1	75	10	Add	32	37.38	119	19.45
1	60	1	Add	32	36.79	119	18.81
1	60	2	Add	32	31.94	119	20.75
1	60	3	Add	32	29.50	119	15.00
1	60	4	Add	32	27.95	119	15.12
1	60	5	Add	32	24.03	119	3.72
1	60	6	Add	32	24.46	118	59.56
1	60	7	Add	32	25.42	118	59.42
1	60	8	Add	32	27.41	119	1.99
1	60	9	Add	32	36.79	119	18.81
1	50	1	Add	32	35.89	119	18.39
1	50	2	Add	32	31.93	119	20.54
1	50	3	Add	32	29.47	119	14.81
1	50	4	Add	32	28.14	119	14.94
1	50	5	Add	32	24.37	119	3.69
1	50	6	Add	32	24.50	119	0.52
1	50	7	Add	32	26.04	119	0.46
1	50	8	Add	32	35.89	119	18.39

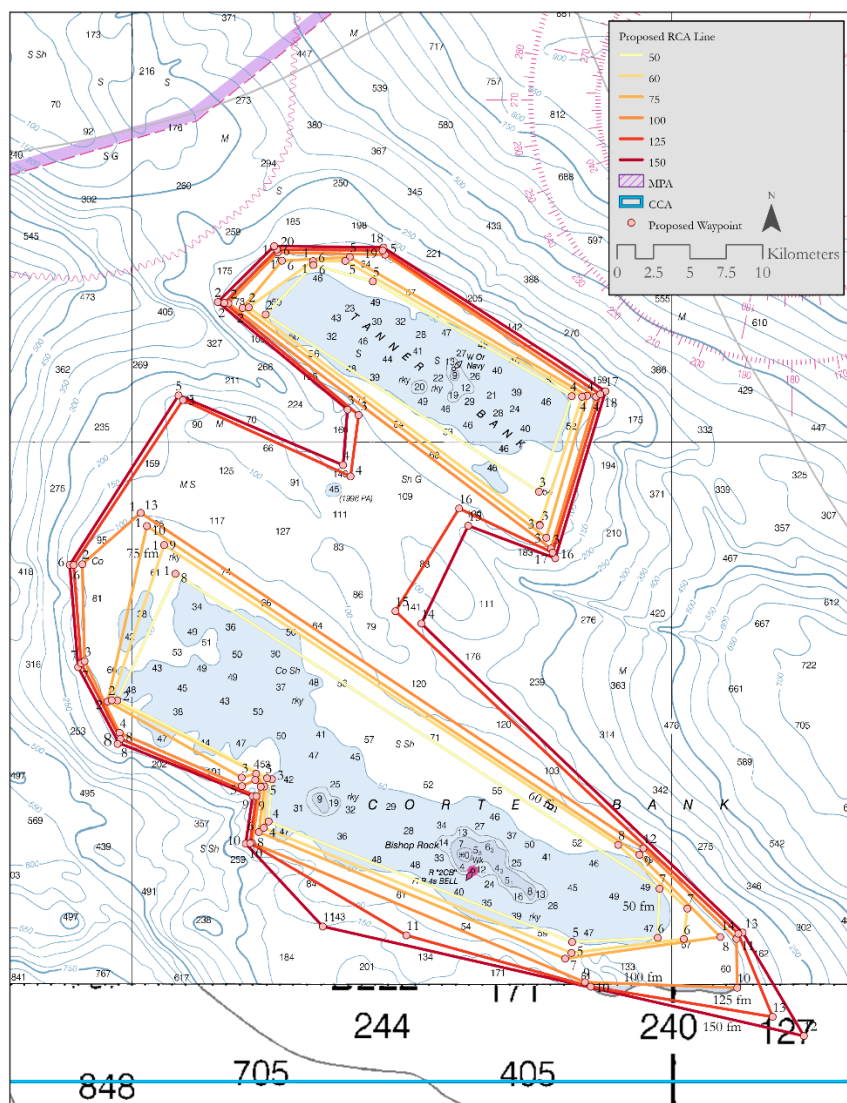


Figure 23. Proposed 125 and 150 fathom NT-RCA boundary lines around both Tanner and Cortez Banks. (Zoomed-in view of content depicted in Figure 18).

Table 22. Proposed waypoints for the NT-RCA boundary lines around Tanner and Cortez Banks, including corrected coordinates (shaded grey).

CDFW Cat.	Fathom Line	Waypoint Number	Action	New Lat Deg	New Lat Min	New Long Deg	New Long Min
1	150	1	Add	32	46.12	119	14.73
1	150	2	Add	32	44.37	119	16.82
1	150	3	Add	32	41.02	119	12.01
1	150	4	Add	32	39.28	119	12.18
1	150	5	Add	32	41.46	119	18.28
1	150	6	Add	32	36.17	119	22.31
1	150	7	Add	32	32.97	119	22.00
1	150	8	Add	32	30.57	119	20.54
1	150	9	Add	32	28.94	119	15.53
1	150	10	Add	32	27.45	119	15.79

CDFW Cat.	Fathom Line	Waypoint Number	Action	New Lat Deg	New Lat Min	New Long Deg	New Long Min
1	150	11	Add	32	24.86	119	12.93
1	150	12	Add	32	21.43	118	55.10
1	150	13	Add	32	24.67	118	57.37
1	150	14	Add	32	34.34	119	9.28
1	150	15	Add	32	37.39	119	7.54
1	150	16	Add	32	36.38	119	4.32
1	150	17	Add	32	41.59	119	2.46
1	150	18	Add	32	46.07	119	10.68
1	150	19	Add	32	46.12	119	14.73
1	125	1	Add	32	46.01	119	14.63
1	125	2	Add	32	44.35	119	16.58
1	125	3	Add	32	40.85	119	11.61
1	125	4	Add	32	38.93	119	11.90
1	125	5	Add	32	41.32	119	18.11
1	125	6	Add	32	36.16	119	22.16
1	125	7	Add	32	33.09	119	21.89
1	125	8	Add	32	30.73	119	20.43
1	125	9	Add	32	28.94	119	15.40
1	125	10	Add	32	27.46	119	15.62
1	125	11	Add	32	24.58	119	9.83
1	125	12	Add	32	22.97	119	3.00
1	125	13	Add	32	22.03	118	56.26
1	125	14	Add	32	24.63	118	57.54
1	125	15	Add	32	34.72	119	10.24
1	125	16	Add	32	37.93	119	7.88
1	125	17	Add	32	36.55	119	4.42
1	125	18	Add	32	41.50	119	2.65
1	125	19	Add	32	45.98	119	10.71
1	125	20	Add	32	46.01	119	14.63

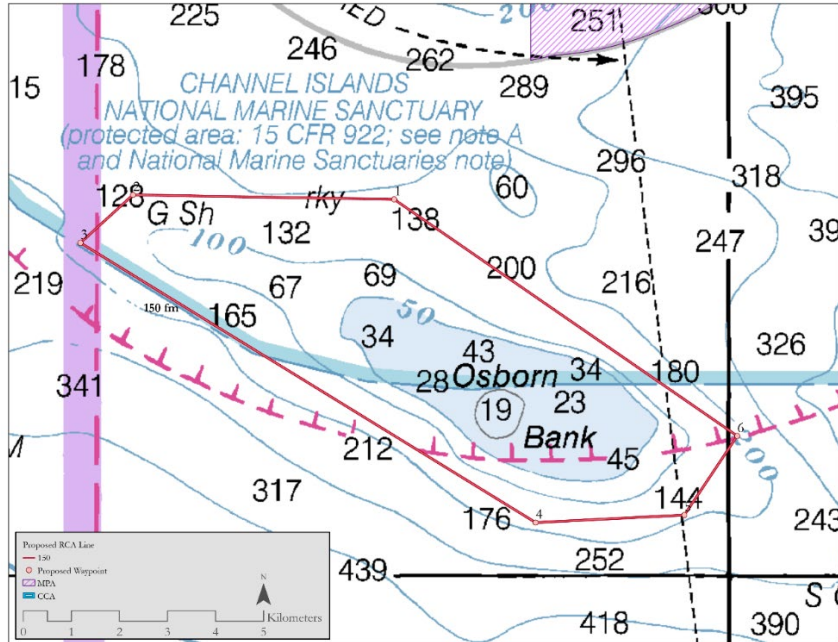


Figure 24. Proposed 150 fathom NT-RCA boundary line around Osborn Bank. (Zoomed-in view of content depicted in Figure 18).

Table 23. Proposed waypoints for the 150 fathom NT-RCA boundary line around Osborn Bank, including corrected coordinates (shaded grey).

CDFW Cat.	Fathom Line	Waypoint Number	Action	New Lat Deg	New Lat Min	New Long Deg	New Long Min
1	150	1	Add	33	23.53	119	3.73
1	150	2	Add	33	23.57	119	6.66
1	150	3	Add	33	23.12	119	7.25
1	150	4	Add	33	20.51	119	2.15
1	150	5	Add	33	20.58	119	0.48
1	150	6	Add	33	21.32	118	59.89
1	150	7	Add	33	23.53	119	3.73

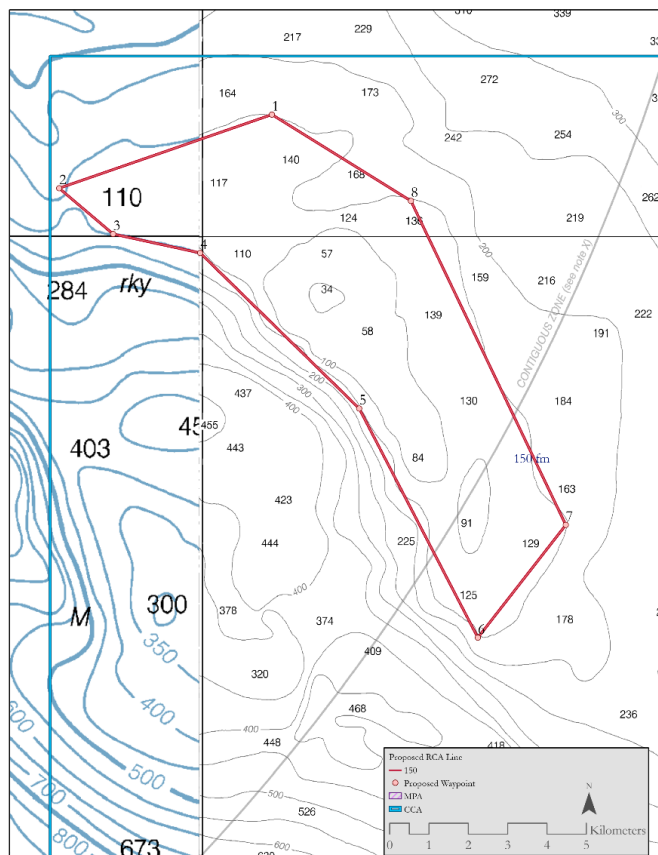


Figure 25. Proposed 150 fathom NT-RCA boundary line in the Eastern Cowcod Conservation Area. (Zoomed-in view of content depicted in *Figure 18*).

Table 24. Proposed waypoints for the 150 fathom NT-RCA boundary line in the Eastern Cowcod Conservation Area.

CDFW Cat.	Fathom Line	Waypoint Number	Action	New Lat Deg	New Lat Min	New Long Deg	New Long Min
1	150	1	Add	32	41.41	117	59.05
1	150	2	Add	32	40.57	118	1.97
1	150	3	Add	32	40.04	118	1.23
1	150	4	Add	32	39.82	118	0.03
1	150	5	Add	32	38.02	117	57.86
1	150	6	Add	32	35.38	117	56.23
1	150	7	Add	32	36.68	117	55.02
1	150	8	Add	32	40.42	117	57.15
1	150	9	Add	32	41.41	117	59.05