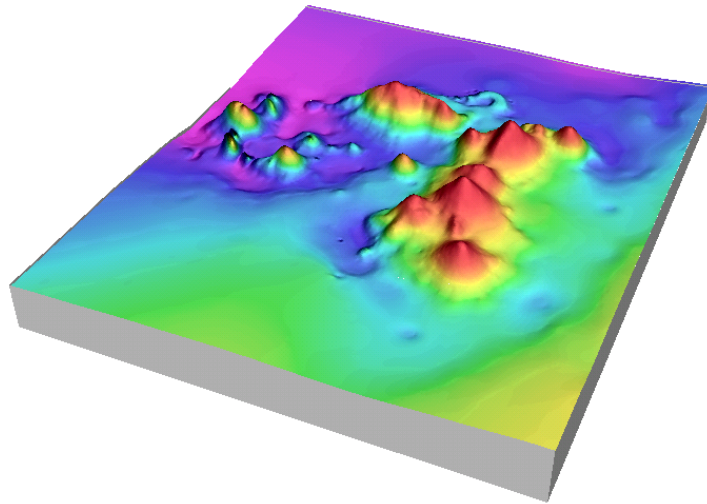


Summary information of Underwater Topographic Feature (UTF) habitat for orange roughy and associated trawl fisheries for orange roughy and oreo species. Part II.

(MSC PI 2.4.1)



Prepared for Deepwater Group Limited

December 2014

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Caption for image. Underwater topographical features (UTF) Andes Knolls [NIWA]

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Reviewed by



Dr Malcolm Clark

Approved for release by



Dr Rosemary Hurst

Background summary

The Deepwater Group Limited is undertaking an assessment of several orange roughy (*Hoplostethus atlanticus*) fisheries against Marine Stewardship Council fisheries standards as a process of development towards MSC certification. These fisheries are ORH7A & Westpac Bank, ORH3B Northwest Chatham Rise, and ORH3B East & South Chatham Rise (east of 179°30'W). Analyses were required to evaluate the extent of underwater topographic feature (UTF) habitat for orange roughy in each of the fishery areas and within the lower bathyal New Zealand Kermadec province (EEZ and non-EEZ bioregion), and to evaluate the footprint of trawling operations on such habitat.

This report collates information on orange roughy UTF habitat, including UTF categories, ID, location, basal and conical areas, coral presence/absence, and the occurrence of orange roughy and oreo (black oreo *Allocyttus niger*, smooth oreo *Pseudocyttus maculatus* and unspecified oreo species) target trawling over the last five fishing years (from 1 October 2008 to 30 September 2013).

Fishery catch and effort information (tow by tow TCEPR data) was obtained from MPI, error-checked and groomed. Aggregated (five-year) data are tabulated by UTF in Appendix 1. Annual catch and effort data are tabulated by UTF in Appendix 2. A detailed description of the methods is given in Part I of this report.

As many of the data in the report appendices are owned by NIWA, any reproduction of the tables or use of the NIWA data in the tables must acknowledge NIWA.

Appendix 1: UTF table including orange roughy/oreo target trawl fishery catch and effort information for the period 2008-09 to 2012-13, for UTFs with summit depths between 500-1600 m, sorted by location (unit of assessment (UoA) areas ORH7A & Westpac Bank, ORH3B Northwest Chatham Rise, ORH3B East & South Chatham Rise, the New Zealand EEZ, and the lower bathyal Kermadec bioregion (both within and outside the EEZ)). Cat = UTF category; ID = database Identifier; Coral = coral presence (P) and absence (A) field (as determined based on Clark et al. 2014); Summit Lat/Lon = latitude and longitude; Ev= elevation; BA = basal polygon area; CA =conical area; L.fyr = last year fished (NF = not fished); n.tows= number of tows; ORH = orange roughy; BOE = black oreo; SSO = smooth oreo (SSO).

Cat	ID	Name	Location	Coral	Summit			Ev	BA	CA	L.fyr	ORH/OEO Target Fishery (2009-2013)			
					Lat	Lon	Depth					n. tows	ORH	BOE	SSO
					°S	°E	(m)						(kg)	(kg)	(kg)
hill	577	E Pinnie	ORH7A and Westpac	A	39.4	170.7	508	292	1.5	3.1	2000	0	0	0	0
hill	578	MegaBrick	ORH7A and Westpac	A	40.1	168.0	833	117	3.4	6.6	2013	60	252451	0	0
hill	579	TwinTits	ORH7A and Westpac	A	40.1	168.0	790	160	2.5	4.9	2013	40	67139	0	0
hill	581	Volcano	ORH7A and Westpac	A	39.8	167.2	933	117	3.6	7.1	2013	9	27101	0	0
hill	582	The Dork	ORH7A and Westpac	A	39.8	167.3	810	190	1.0	2.1	2013	12	14420	0	16
hill	583	Dead Ringer	ORH3B NWCR	P	42.7	180.3	820	330	2.2	4.8	2010	12	3875	0	183
hill	584	Scroll	ORH3B NWCR	P	42.8	180.0	888	192	0.8	1.7	2010	3	3645	0	40
hill	585	Morgue	ORH3B NWCR	P	42.7	180.0	890	310	8.8	18.7	2001	0	0	0	0
hill	586	Graveyard	ORH3B NWCR	P	42.8	180.0	748	352	3.7	8.0	2013	125	604921	151	3147
hill	587	Zombie	ORH3B NWCR	P	42.8	180.1	891	189	1.3	2.7	2009	1	40	0	20
hill	588	Mummy	ORH3B NWCR	P	42.6	180.1	1040	310	2.4	5.1	2010	5	205	0	20
hill	589	Crypt	ORH3B NWCR	P	42.6	180.1	1145	405	2.5	5.4	2006	0	0	0	0
hill	590	Mt Doom	ORH3B NWCR	A	42.6	180.0	1265	385	3.9	8.4	2002	0	0	0	0
hill	591	Mt Gloom	ORH3B NWCR	A	42.6	180.0	1178	282	3.3	7.1	2003	0	0	0	0
hill	592	Headstone	ORH3B NWCR	P	42.7	180.0	1000	200	3.3	6.9	2008	0	0	0	0
hill	593	Hartless	ORH3B NWCR	P	42.7	180.1	1071	289	2.5	5.3	2008	0	0	0	0
hill	594	Diabolical	ORH3B NWCR	P	42.8	180.0	894	156	0.7	1.5	2008	0	0	0	0
hill	595	RIP	ORH3B NWCR	P	42.8	180.1	905	145	0.5	1.0	2008	0	0	0	0
hill	596	Gothic	ORH3B NWCR	P	42.7	180.1	987	173	2.9	6.2	2006	0	0	0	0
hill	597	Pyre	ORH3B NWCR	P	42.7	180.1	1004	196	0.9	2.0	1999	0	0	0	0
hill	598	Casket	ORH3B NWCR	P	42.8	180.0	792	208	0.4	0.8	2010	8	1555	0	165
hill	599	Wecnec	ORH3B NWCR	A	42.8	180.2	850	150	0.4	0.9	2010	3	2200	0	0

Cat	ID	Name	Location	Coral	Summit			Ev	BA	CA	L.fyr	ORH/OEO Target Fishery (2009-2013)			
					Lat	Lon	Depth					n. tows	ORH	BOE	SSO
					°S	°E	(m)					(m)	(km2)	(km2)	(kg)
hill	601	Ghoul	ORH3B NWCR	P	42.8	180.0	935	105	0.1	0.2	2010	1	3	0	0
hill	602	Solless	ORH3B NWCR	A	42.7	180.0	1161	219	0.4	0.9	2001	0	0	0	0
hill	603	Soul Destroyer	ORH3B NWCR	P	42.7	180.0	1126	214	1.1	2.4	2003	0	0	0	0
hill	604	Coffin	ORH3B NWCR	P	42.8	179.9	1007	103	0.6	1.2	2004	0	0	0	0
hill	605	Vampire	ORH3B NWCR	A	42.7	180.0	1100	150	0.2	0.4	2006	0	0	0	0
hill	606	Grendel	ORH3B NWCR	A	42.7	180.2	1087	113	0.2	0.4	1999	0	0	0	0
hill	796	Phantom	ORH3B NWCR	P	42.8	180.0	1010	100	0.6	1.3	2009	1	10	0	0
hill	797	Voodoo	ORH3B NWCR	P	42.7	180.1	1019	106	0.4	1.0	2009	1	70000	0	0
hill	798	Gargoyle	ORH3B NWCR	A	42.7	180.2	1200	100	0.3	0.7	2005	0	0	0	0
seamount	328	Munchen	ORH3B ESCR	A	44.7	185.8	1595	1105	523.2	1180.4	NF	0	0	0	0
hill	608	Crack	ORH3B ESCR	P	42.8	183.1	700	200	1.0	2.2	2013	126	1252123	10	622
hill	610	Smiths City	ORH3B ESCR	A	43.0	185.6	894	306	4.8	10.4	2013	52	78904	0	6639
hill	611	Camerons	ORH3B ESCR	P	43.1	185.7	784	276	3.2	7.1	2013	54	105400	10	1958
hill	612	Erebus	ORH3B ESCR	P	43.2	186.2	979	358	4.2	9.3	2013	87	276134	500	46964
hill	613	Easter	ORH3B ESCR	A	43.1	185.5	668	332	4.1	8.9	2012	1	0	0	0
hill	614	Hill820	ORH3B ESCR	A	43.1	185.5	820	180	1.5	3.3	2011	8	1990	0	2755
knoll	615	Possum East (aka Chapmans)	ORH3B ESCR	P	44.2	185.5	725	625	47.1	105.1	2013	109	211736	4080	57731
hill	616	Cotopaxi (aka Coral Kingdom, Patsi)	ORH3B ESCR	P	44.2	185.6	937	423	8.8	19.7	2013	39	8029	585	56764
knoll	617	Sir Michael (Andes)	ORH3B ESCR	P	44.2	185.6	881	619	8.9	20.2	2013	121	133999	6070	119676
knoll	618	Dickies	ORH3B ESCR	P	44.1	185.4	643	607	16.5	37.1	2013	53	41712	180	10416
hill	619	Icecube	ORH3B ESCR	P	44.1	185.5	735	465	6.0	13.6	2013	44	20955	100	6985
hill	620	Ritchie Hill (Andes)	ORH3B ESCR	P	44.2	185.4	710	490	13.0	29.2	2013	5	24650	100	1300
hill	621	Cathy (aka Fickle Finger of Fate)	ORH3B ESCR	P	44.2	185.5	911	289	2.9	6.5	2013	63	156945	2502	6922
hill	623	Rachael (Andes)	ORH3B ESCR	P	44.2	185.4	590	460	19.7	44.1	2013	17	13400	414	1350
hill	624	Aloha (aka Throbin)	ORH3B ESCR	P	44.0	185.4	787	363	4.9	11.0	2006	0	0	0	0
hill	625	Diamond Head	ORH3B ESCR	P	44.1	185.3	675	325	16.5	36.6	2006	0	0	0	0
hill	628	Not Till Sunday (Mushy Pea, Central Park)	ORH3B ESCR	P	43.9	185.7	742	458	9.1	20.2	2013	110	317261	1055	9485

Cat	ID	Name	Location	Coral	Summit			Ev	BA	CA	L.fyr	ORH/OEO Target Fishery (2009-2013)			
					Lat	Lon	Depth					n. tows	ORH	BOE	SSO
					°S	°E	(m)	(m)	(km2)	(km2)			(kg)	(kg)	(kg)
hill	629	Birthday	ORH3B ESCR	P	43.8	185.5	646	279	8.2	18.0	2006	0	0	0	0
hill	630	Kenwood	ORH3B ESCR	P	43.9	185.4	644	406	12.5	27.7	2012	28	33815	150	2268
hill	631	Jimmy (Andes)	ORH3B ESCR	P	44.2	185.4	755	465	5.4	12.2	2013	19	7514	30	5840
hill	632	Big Chief	ORH3B ESCR	P	44.7	184.8	795	405	12.0	27.3	2013	6	38100	1000	2100
hill	633	Tomahawk	ORH3B ESCR	P	44.6	184.8	993	257	3.4	7.8	2012	23	27210	25130	126985
hill	634	Hiawatha	ORH3B ESCR	P	44.7	184.7	974	326	6.8	15.5	2011	15	8323	24926	45976
hill	635	Charlie Horsecock	ORH3B ESCR	P	44.7	184.7	948	272	8.6	19.4	2012	18	12582	16860	54792
hill	636	Flintstone	ORH3B ESCR	P	44.6	184.7	816	454	6.8	15.6	2012	26	4156	210	25555
hill	637	Mangrove (aka Riwaka Rock)	ORH3B ESCR	P	44.7	184.5	1029	321	11.7	26.6	2013	13	500	505	29769
hill	638	Cooks	ORH3B ESCR	P	44.7	184.7	801	469	9.1	20.9	2012	21	14234	1068	11150
hill	639	Teepee	ORH3B ESCR	P	44.6	184.8	982	418	3.5	8.1	2011	22	13474	2090	24275
hill	640	Condoms (aka Sid Viscous, Mt Explorer)	ORH3B ESCR	P	44.6	184.2	860	310	2.7	6.1	2013	47	23050	7378	219648
hill	641	EA5 pinnie	ORH3B ESCR	A	44.7	184.4	1372	128	6.9	15.7	NF	0	0	0	0
hill	642	Lucky (aka Marksville)	ORH3B ESCR	A	44.6	184.8	953	397	1.4	3.4	2010	10	8565	420	18571
hill	647	S. of Teepee	ORH3B ESCR	A	44.6	184.8	1140	245	1.7	4.0	2006	0	0	0	0
hill	648	Little Chief	ORH3B ESCR	P	44.7	184.8	738	462	6.3	14.5	2013	94	157887	9875	43086
hill	651	Trevs Pinni (aka North Arrow)	ORH3B ESCR	A	44.5	180.7	876	124	1.2	2.6	2013	73	3000	21312	640962
hill	652	Mt Kiso	ORH3B ESCR	A	44.4	181.3	630	220	2.0	4.6	2013	67	23875	177491	247482
hill	653	Dory Pimp	ORH3B ESCR	A	44.6	181.9	1000	200	0.6	1.5	NF	0	0	0	0
hill	654	The Pimple	ORH3B ESCR	A	44.6	182.2	942	108	0.2	0.5	2013	32	0	3244	326782
hill	657	Hegerville	ORH3B ESCR	P	44.7	182.9	648	402	14.7	33.3	2013	104	9251	25027	930456
hill	658	Nielson	ORH3B ESCR	P	44.7	183.2	658	388	12.7	28.8	2012	16	3548	870	35223
hill	659	Dolly Parton	ORH3B ESCR	P	44.8	183.4	923	327	8.3	18.9	2013	125	500	336	1430310
hill	661	Paranoia (aka Mt Pleasant)	ORH3B ESCR	P	44.7	183.5	786	364	5.7	13.1	2013	77	2220	6223	599348
hill	664	Featherlite	ORH3B ESCR	A	44.7	183.9	945	130	0.7	1.5	2013	31	200	1430	313000
hill	665	Chucky's (aka HellBag hill)	ORH3B ESCR	A	44.9	183.0	1123	327	8.0	18.2	2013	167	0	1134	2227502
hill	666	Der Spriggs (aka The Rabbit)	ORH3B ESCR	P	44.7	183.3	631	369	6.1	14.1	2011	3	1440	500	1880

Cat	ID	Name	Location	Coral	Summit			Ev	BA	CA	L.fyr	ORH/OEO Target Fishery (2009-2013)			
					Lat	Lon	Depth					n. tows	ORH	BOE	SSO
					°S	°E	(m)	(m)	(km2)	(km2)			(kg)	(kg)	(kg)
hill	667	Mt Muzza (+ Muzzas Brudda)	ORH3B ESCR	A	44.7	183.7	621	379	2.1	4.9	1994	0	0	0	0
hill	668	Hill94	ORH3B ESCR	P	44.5	184.5	588	312	2.9	6.6	NF	0	0	0	0
hill	697	Death Star	ORH3B ESCR	A	44.4	185.5	1566	134	49.7	110.9	NF	0	0	0	0
hill	794	Frustrate/Shark Fin	ORH3B ESCR	P	43.9	185.6	835	215	3.2	7.1	2007	0	0	0	0
hill	805	South Arrow Pinnie	ORH3B ESCR	A	44.5	180.8	1086	124	0.5	1.1	2013	1	0	0	20000
hill	806	Grahams Pinnie	ORH3B ESCR	A	44.5	181.3	890	110	0.6	1.4	2013	20	2356	5800	69878
hill	807	Coff Drop (aka Arrows jaws)	ORH3B ESCR	A	44.5	181.3	718	192	0.6	1.5	2013	77	221342	230226	91371
hill	808	Hideaway Hill	ORH3B ESCR	P	44.7	183.4	753	197	1.6	3.6	2012	13	3000	1092	122494
hill	810	Rigid digit (Mothers best friend_	ORH3B ESCR	A	44.7	183.7	1006	144	0.6	1.5	2012	6	0	100	91010
hill	812	Manston Boyz	ORH3B ESCR	A	44.5	184.7	572	398	7.7	17.5	1990	0	0	0	0
hill	813	Ladies Night	ORH3B ESCR	A	44.2	185.6	1078	272	2.3	5.2	2009	2	40	0	60
hill	814	Dickman	ORH3B ESCR	A	44.0	185.4	818	332	NA	NA	2010	3	1050	0	30
hill	975	Unlucky	ORH3B ESCR	A	44.4	185.0	600	229	1.1	2.5	2009	1	0	0	0
hill	1024	Diamond Head B	ORH3B ESCR	P	44.2	185.2	575	425	26.1	58.1	NF	0	0	0	0
hill	1327	NA	ORH3B ESCR	P	44.5	184.7	709	241	1.5	3.4	2012	4	3110	0	400
hill	1403	NA	ORH3B ESCR	P	44.0	185.4	940	180	8.0	17.8	2004	0	0	0	0
hill	1413	NA	ORH3B ESCR	A	42.4	186.8	1580	330	5.3	11.2	NF	0	0	0	0
hill	1414	NA	ORH3B ESCR	A	42.4	186.7	1580	240	1.5	3.2	NF	0	0	0	0
hill	1587	NA	ORH3B ESCR	P	44.0	185.4	625	425	9.8	21.8	2012	13	6130	110	710
hill	1588	NA	ORH3B ESCR	P	44.0	185.4	589	461	24.9	55.0	2008	0	0	0	0
hill	1589	NA	ORH3B ESCR	P	44.0	185.5	772	278	5.2	11.6	2009	2	220	0	30
hill	1590	NA	ORH3B ESCR	P	43.9	185.3	665	210	6.4	14.2	2008	0	0	0	0
hill	1591	NA	ORH3B ESCR	P	43.8	185.6	829	221	5.0	10.9	2010	16	15230	0	11670
hill	1592	NA	ORH3B ESCR	P	44.7	184.6	1121	129	3.2	7.3	2012	6	12030	6500	31110
hill	1593	NA	ORH3B ESCR	A	43.2	185.6	833	167	2.3	5.0	2010	5	890	0	95
hill	1594	NA	ORH3B ESCR	A	42.9	185.6	1070	210	1.2	2.6	2012	15	28023	30	12826
hill	1595	NA	ORH3B ESCR	A	44.1	185.3	790	235	6.7	14.9	NF	0	0	0	0

Cat	ID	Name	Location	Coral	Summit			Ev	BA	CA	L.fyr	ORH/OEO Target Fishery (2009-2013)			
					Lat	Lon	Depth					n. tows	ORH	BOE	SSO
					°S	°E	(m)	(m)	(km2)	(km2)			(kg)	(kg)	(kg)
hill	1596	NA	ORH3B ESCR	P	44.7	184.4	1180	275	6.7	15.3	1991	0	0	0	0
hill	1597	NA	ORH3B ESCR	A	44.5	184.7	599	371	6.5	14.7	2003	0	0	0	0
hill	1608	NA	ORH3B ESCR	A	44.6	182.9	601	239	8.0	18.0	NF	0	0	0	0
hill	1614	NA	ORH3B ESCR	A	44.0	185.3	555	340	10.0	22.2	NF	0	0	0	0
hill	1615	NA	ORH3B ESCR	A	44.0	185.2	565	274	5.9	13.2	2010	1	5	0	0
hill	1616	NA	ORH3B ESCR	A	43.9	185.3	625	200	9.9	21.7	2009	1	30	0	20
hill	1617	NA	ORH3B ESCR	A	43.9	185.2	556	264	5.7	12.5	2008	0	0	0	0
hill	1618	NA	ORH3B ESCR	P	43.9	185.3	642	168	5.5	12.2	2010	2	420	0	50
hill	1619	NA	ORH3B ESCR	A	43.9	185.3	509	301	18.0	39.6	NF	0	0	0	0
hill	1621	NA	ORH3B ESCR	P	43.9	185.5	770	180	4.9	10.8	2010	3	2950	0	20
hill	1622	NA	ORH3B ESCR	A	43.8	185.3	625	215	2.7	5.9	2009	2	20	0	100
hill	1624	NA	ORH3B ESCR	P	44.2	185.5	1190	170	1.2	2.7	2007	0	0	0	0
hill	1625	NA	ORH3B ESCR	A	44.0	185.4	885	135	1.7	3.7	1998	0	0	0	0
seamount	33	NA	Kermadec bioregion (within EEZ)	A	26.4	182.1	1203	1145	1026.6	1462.9	NF	0	0	0	0
knoll	36	Hinepuia 1	Kermadec bioregion (within EEZ)	A	26.4	182.7	743	721	163.5	233.1	NF	0	0	0	0
knoll	48	NA	Kermadec bioregion (within EEZ)	A	27.1	182.0	1499	605	487.8	702.6	NF	0	0	0	0
knoll	54	NA	Kermadec bioregion (within EEZ)	A	27.8	180.1	1068	682	530.3	773.3	NF	0	0	0	0
knoll	59	NA	Kermadec bioregion (within EEZ)	A	28.2	181.6	1160	933	1273.2	1870.2	NF	0	0	0	0
knoll	71	NA	Kermadec bioregion (within EEZ)	A	28.6	181.5	1303	752	164.0	243.6	NF	0	0	0	0
knoll	84	NA	Kermadec bioregion (within EEZ)	A	29.2	179.8	1552	910	105.8	159.6	NF	0	0	0	0
seamount	86	Matanourua Seamount	Kermadec bioregion (within EEZ)	A	29.6	178.5	1056	2636	8661.9	13061.8	NF	0	0	0	0
knoll	95	NA	Kermadec bioregion (within EEZ)	A	30.0	179.6	559	887	234.1	356.9	NF	0	0	0	0
knoll	107	NA	Kermadec bioregion (within EEZ)	A	30.4	180.7	1270	530	192.3	295.1	NF	0	0	0	0
seamount	124	NA	Kermadec bioregion (within EEZ)	A	31.0	173.4	696	1304	92.5	146.3	NF	0	0	0	0
knoll	126	Havre	Kermadec bioregion (within EEZ)	A	31.1	180.9	770	728	553.7	862.0	NF	0	0	0	0
knoll	132	NA	Kermadec bioregion (within EEZ)	A	31.4	173.0	1238	603	436.9	685.2	NF	0	0	0	0
seamount	136	NA	Kermadec bioregion (within EEZ)	A	31.5	174.0	1500	1750	450.8	711.3	NF	0	0	0	0

Cat	ID	Name	Location	Coral	Summit			Ev	BA	CA	L.fyr	ORH/OEO Target Fishery (2009-2013)			
					Lat	Lon	Depth					n. tows	ORH	BOE	SSO
					°S	°E	(m)	(m)	(km2)	(km2)			(kg)	(kg)	(kg)
seamount	143	NA	Kermadec bioregion (within EEZ)	A	31.8	173.7	676	2336	900.5	1430.9	NF	0	0	0	0
knoll	145	NA	Kermadec bioregion (within EEZ)	A	31.8	173.2	1303	510	374.0	591.3	NF	0	0	0	0
knoll	146	NA	Kermadec bioregion (within EEZ)	A	31.9	172.4	571	943	287.3	455.5	NF	0	0	0	0
seamount	148	NA	Kermadec bioregion (within EEZ)	A	32.0	174.3	677	2623	773.8	1238.5	NF	0	0	0	0
seamount	153	NA	Kermadec bioregion (within EEZ)	A	32.3	169.0	826	1180	1161.3	1854.5	NF	0	0	0	0
knoll	163	NA	Kermadec bioregion (within EEZ)	A	32.7	172.6	1203	756	2656.0	4279.0	NF	0	0	0	0
seamount	176	NA	Kermadec bioregion (within EEZ)	A	33.4	176.7	1492	1083	363.9	597.0	NF	0	0	0	0
seamount	178	NA	Kermadec bioregion (within EEZ)	A	33.4	171.4	1250	1086	717.9	1175.9	NF	0	0	0	0
seamount	181	Massey Seamount	Kermadec bioregion (within EEZ)	A	33.4	172.0	639	1061	237.0	389.4	NF	0	0	0	0
seamount	189	Sonne	Kermadec bioregion (within EEZ)	A	34.1	179.6	995	2005	437.0	732.2	NF	0	0	0	0
hill	196	NA	Kermadec bioregion (within EEZ)	A	34.5	175.8	1500	250	311.4	522.4	NF	0	0	0	0
seamount	197	KI1	Kermadec bioregion (within EEZ)	A	34.5	179.2	1060	1355	81.1	138.8	NF	0	0	0	0
seamount	198	Gill Seamount	Kermadec bioregion (within EEZ)	A	34.6	178.4	1262	1488	123.1	210.7	NF	0	0	0	0
knoll	200	NA	Kermadec bioregion (within EEZ)	A	34.6	178.9	1500	500	251.3	423.5	NF	0	0	0	0
seamount	202	Yokosuka	Kermadec bioregion (within EEZ)	A	34.7	178.5	1060	1504	197.0	335.6	NF	0	0	0	0
seamount	210	Brothers	Kermadec bioregion (within EEZ)	A	34.9	179.1	1197	1293	166.2	284.0	NF	0	0	0	0
seamount	212	Healy	Kermadec bioregion (within EEZ)	A	35.0	179.0	973	1027	422.7	720.1	NF	0	0	0	0
knoll	213	NA	Kermadec bioregion (within EEZ)	A	35.0	177.5	912	588	295.9	503.7	2011	1	0	0	0
seamount	217	Silent II	Kermadec bioregion (within EEZ)	A	35.2	178.9	780	1444	310.3	532.8	1997	0	0	0	0
hill	218	NA	Kermadec bioregion (within EEZ)	A	35.2	177.4	1400	105	32.0	54.7	NF	0	0	0	0
knoll	219	Silent II East	Kermadec bioregion (within EEZ)	A	35.2	179.0	1263	837	81.7	140.6	NF	0	0	0	0
seamount	224	NA	Kermadec bioregion (within EEZ)	A	35.9	177.9	1035	1704	36.7	67.9	NF	0	0	0	0
knoll	230	Colville Knolls	Kermadec bioregion (within EEZ)	A	36.2	176.8	735	965	173.8	305.5	2013	5	210	0	0
hill	237	NA	Kermadec bioregion (within EEZ)	A	36.6	177.0	1250	275	92.6	164.0	NF	0	0	0	0
hill	242	Telecom Knoll	Kermadec bioregion (within EEZ)	A	36.9	170.7	1500	250	43.7	78.2	NF	0	0	0	0
knoll	243	West Ngatoro Knoll	Kermadec bioregion (within EEZ)	A	37.0	176.9	629	671	25.6	46.4	2003	0	0	0	0
knoll	244	Otara (nth) and Waioeka (sth) Knolls	Kermadec bioregion (within EEZ)	A	37.0	177.5	1500	657	122.0	219.0	NF	0	0	0	0

Cat	ID	Name	Location	Coral	Summit			Ev	BA	CA	L.fyr	ORH/OEO Target Fishery (2009-2013)			
					Lat	Lon	Depth					n. tows	ORH	BOE	SSO
					°S	°E	(m)					(m)	(km2)	(km2)	(kg)
seamount	252	Aotea	Kermadec bioregion (within EEZ)	A	37.5	172.2	897	1250	2950.7	5345.2	2000	0	0	0	0
hill	257	Main Hill	Kermadec bioregion (within EEZ)	A	37.7	179.4	742	458	108.7	198.2	2013	63	124840	0	0
hill	302	NA	Kermadec bioregion (within EEZ)	A	41.1	177.2	1600	200	111.1	222.8	NF	0	0	0	0
hill	304	Wairarapa Hill 5	Kermadec bioregion (within EEZ)	P	41.1	176.7	900	100	43.8	87.8	2013	11	21340	0	263
seamount	306	Mobil	Kermadec bioregion (within EEZ)	A	41.1	180.2	1500	1300	211.8	428.0	NF	0	0	0	0
hill	308	NA	Kermadec bioregion (within EEZ)	A	41.3	176.6	750	250	400.6	806.9	2013	8	5718	0	0
knoll	310	NA	Kermadec bioregion (within EEZ)	P	41.3	176.2	500	516	66.8	135.3	2010	1	600	0	0
seamount	313	NA	Kermadec bioregion (within EEZ)	A	41.7	180.3	1485	1095	149.7	307.6	NF	0	0	0	0
hill	332	NA	Kermadec bioregion (within EEZ)	A	45.6	174.7	1000	411	219.8	512.0	NF	0	0	0	0
seamount	362	Bollons	Kermadec bioregion (within EEZ)	A	49.8	183.3	800	3828	26518.3	72956.0	NF	0	0	0	0
seamount	364	NA	Kermadec bioregion (within EEZ)	A	49.2	166.2	1000	1049	385.1	1030.5	NF	0	0	0	0
knoll	375	SM4	Kermadec bioregion (within EEZ)	A	50.7	163.8	610	740	2055.5	5818.4	NF	0	0	0	0
seamount	376	Christable	Kermadec bioregion (within EEZ)	A	51.0	164.6	910	2406	5631.1	16186.0	NF	0	0	0	0
knoll	426	NA	Kermadec bioregion (within EEZ)	A	30.7	180.6	1224	780	724.9	1118.5	NF	0	0	0	0
seamount	433	Kuiwai	Kermadec bioregion (within EEZ)	A	33.2	180.0	550	2550	413.7	683.1	NF	0	0	0	0
knoll	434	NA	Kermadec bioregion (within EEZ)	A	33.5	176.4	1585	665	109.0	179.4	NF	0	0	0	0
seamount	435	NA	Kermadec bioregion (within EEZ)	A	33.8	179.3	1486	1014	328.9	544.8	NF	0	0	0	0
knoll	436	Whangaroa Seamount	Kermadec bioregion (within EEZ)	A	33.8	174.0	850	900	310.9	514.5	2011	1	0	0	0
seamount	437	Purerua Seamount	Kermadec bioregion (within EEZ)	A	33.9	174.6	1250	1700	1393.7	2311.2	NF	0	0	0	0
knoll	438	Whangaroa B	Kermadec bioregion (within EEZ)	A	33.8	174.1	1100	650	58.6	97.5	NF	0	0	0	0
seamount	440	NA	Kermadec bioregion (within EEZ)	A	34.0	178.2	1000	2072	521.5	872.5	NF	0	0	0	0
seamount	441	Ballance Seamount	Kermadec bioregion (within EEZ)	A	34.1	174.9	822	1481	655.0	1092.3	2003	0	0	0	0
seamount	442	Cavalli Seamount	Kermadec bioregion (within EEZ)	A	34.1	174.1	500	1067	318.7	531.7	NF	0	0	0	0
hill	443	NA	Kermadec bioregion (within EEZ)	A	34.2	174.1	850	400	66.0	110.4	2000	0	0	0	0
seamount	444	Kibblewhite	Kermadec bioregion (within EEZ)	A	34.6	179.3	1000	1000	408.2	688.1	NF	0	0	0	0
knoll	447	NA	Kermadec bioregion (within EEZ)	A	34.8	169.4	615	657	301.1	510.0	NF	0	0	0	0
seamount	449	Rumble II West Seamount	Kermadec bioregion (within EEZ)	A	35.3	178.5	1142	1708	598.0	1029.7	NF	0	0	0	0

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					Lat	Lon	Depth					n. tows	ORH	BOE	SSO
					°S	°E	(m)	(m)	(km2)	(km2)			(kg)	(kg)	(kg)
seamount	450	Rumble II East	Kermadec bioregion (within EEZ)	A	35.4	178.6	1029	1727	241.5	419.3	NF	0	0	0	0
knoll	452	NA	Kermadec bioregion (within EEZ)	A	35.6	177.0	1536	554	194.5	336.2	NF	0	0	0	0
knoll	456	Kawithu A	Kermadec bioregion (within EEZ)	A	36.0	177.4	1570	808	26.7	47.5	NF	0	0	0	0
seamount	458	Kawithu West	Kermadec bioregion (within EEZ)	A	36.1	177.3	1079	1278	19.2	35.8	NF	0	0	0	0
seamount	459	Kawithu C	Kermadec bioregion (within EEZ)	A	36.1	177.4	1335	2144	31.6	61.6	NF	0	0	0	0
knoll	460	NA	Kermadec bioregion (within EEZ)	A	36.2	177.8	1500	553	191.4	335.8	NF	0	0	0	0
seamount	461	Tangaroa	Kermadec bioregion (within EEZ)	A	36.3	178.1	600	1900	612.5	1080.5	1997	0	0	0	0
seamount	462	NA	Kermadec bioregion (within EEZ)	A	36.4	177.7	1448	1500	36.8	68.2	NF	0	0	0	0
knoll	463	Oheua Knoll	Kermadec bioregion (within EEZ)	A	36.4	177.0	858	842	32.2	57.8	2012	22	10395	0	20
seamount	464	Clark Seamount	Kermadec bioregion (within EEZ)	A	36.5	177.9	860	1640	311.7	553.5	2010	1	0	0	0
knoll	466	NA	Kermadec bioregion (within EEZ)	A	36.8	179.7	1500	500	1566.6	2783.2	NF	0	0	0	0
seamount	467	Whakatane Seamount	Kermadec bioregion (within EEZ)	A	36.8	177.5	880	1316	194.1	347.5	2010	3	357	0	0
knoll	470	NA	Kermadec bioregion (within EEZ)	A	37.0	177.3	901	590	32.3	58.3	2013	61	47961	0	0
hill	471	Waiotahi Knoll	Kermadec bioregion (within EEZ)	A	37.1	177.3	719	281	68.4	122.8	2013	24	18428	0	0
hill	473	Nukuhou Knoll	Kermadec bioregion (within EEZ)	A	37.2	177.2	690	310	120.4	216.6	2011	1	100	0	0
hill	500	Dave's Hill	Kermadec bioregion (within EEZ)	A	37.5	179.4	930	170	4.5	8.2	2013	10	14704	0	0
hill	501	Hill3	Kermadec bioregion (within EEZ)	A	37.7	179.3	930	200	32.0	58.2	2013	2	2800	0	0
hill	502	Hill4	Kermadec bioregion (within EEZ)	A	37.7	179.2	854	266	7.8	14.3	2013	12	5790	0	0
hill	504	Hill6	Kermadec bioregion (within EEZ)	A	37.8	179.3	952	198	16.5	30.1	2010	1	40	0	0
hill	505	Hill7	Kermadec bioregion (within EEZ)	A	37.8	179.2	956	244	14.2	26.1	2013	19	21431	0	43
hill	506	Snake	Kermadec bioregion (within EEZ)	A	37.9	179.1	914	286	18.7	34.4	2013	31	91558	0	100
hill	507	Hill9	Kermadec bioregion (within EEZ)	A	37.7	179.2	973	127	12.7	23.1	2013	6	12195	0	0
hill	508	Hill10r	Kermadec bioregion (within EEZ)	A	37.8	179.3	948	202	16.3	29.7	2005	0	0	0	0
hill	509	Ridge11	Kermadec bioregion (within EEZ)	A	37.3	179.1	1012	138	22.1	39.9	NF	0	0	0	0
hill	510	Twin Peaks ridge	Kermadec bioregion (within EEZ)	A	37.4	178.6	765	485	69.8	126.4	2013	51	70844	0	31
hill	514	Double Knolls	Kermadec bioregion (within EEZ)	A	36.6	176.9	1200	300	210.0	371.0	NF	0	0	0	0
knoll	515	East Ngatoro	Kermadec bioregion (within EEZ)	A	37.1	177.1	1450	500	27.0	48.7	NF	0	0	0	0

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					Lat	Lon	Depth					n. tows	ORH	BOE	SSO
					°S	°E	(m)	(m)	(km2)	(km2)			(kg)	(kg)	(kg)
hill	518	Kapukairo Knoll	Kermadec bioregion (within EEZ)	A	37.0	176.9	1050	300	33.1	59.3	NF	0	0	0	0
knoll	519	Koruenga Knoll	Kermadec bioregion (within EEZ)	A	36.5	176.9	1150	650	9.8	17.9	NF	0	0	0	0
hill	525	Matatara Knoll	Kermadec bioregion (within EEZ)	A	37.2	177.0	750	450	17.2	31.2	1999	0	0	0	0
hill	528	Mokohinau Knoll	Kermadec bioregion (within EEZ)	A	35.7	176.3	600	200	48.9	84.7	2003	0	0	0	0
knoll	532	Otara Knoll	Kermadec bioregion (within EEZ)	A	37.0	177.4	1060	840	36.4	66.1	2003	0	0	0	0
hill	533	Papamoa Knoll	Kermadec bioregion (within EEZ)	A	37.1	176.8	850	250	11.3	20.3	1997	0	0	0	0
hill	540	Tauroa Knoll	Kermadec bioregion (within EEZ)	A	34.8	171.7	950	400	137.5	232.6	2013	114	342505	0	36
hill	541	Teina Knoll	Kermadec bioregion (within EEZ)	A	37.1	176.9	950	200	8.9	16.1	NF	0	0	0	0
hill	545	Urry Knolls	Kermadec bioregion (within EEZ)	A	44.7	174.4	567	333	6.0	13.7	NF	0	0	0	0
hill	548	Mercury Knoll	Kermadec bioregion (within EEZ)	A	36.5	176.5	906	344	94.1	166.2	2013	32	10900	4	0
hill	549	Alderman Knoll	Kermadec bioregion (within EEZ)	A	37.0	176.5	705	395	19.8	35.5	1999	0	0	0	0
seamount	567	Mt Duncan	Kermadec bioregion (within EEZ)	A	47.3	165.8	864	1136	69.9	175.0	2005	0	0	0	0
seamount	568	Porirua	Kermadec bioregion (within EEZ)	A	47.4	165.8	922	1078	45.4	114.3	2013	1	0	3600	7500
hill	571	Malcolms Monument	Kermadec bioregion (within EEZ)	A	47.1	165.6	740	460	55.9	137.6	2006	0	0	0	0
hill	572	Goomzy	Kermadec bioregion (within EEZ)	A	47.0	165.4	946	104	23.3	57.0	2006	0	0	0	0
hill	574	Ritchie Hill	Kermadec bioregion (within EEZ)	P	39.5	178.4	709	241	18.4	35.3	2013	3	300	0	0
hill	575	North Hill	Kermadec bioregion (within EEZ)	A	39.4	178.5	833	367	37.3	71.3	2012	8	3550	0	0
hill	649	Fletchers Pinnie (aka Bluebottle Pinnie)	Kermadec bioregion (within EEZ)	A	44.2	179.2	900	100	0.4	0.9	2013	57	0	157288	380292
hill	650	Mt Nelson	Kermadec bioregion (within EEZ)	A	44.3	179.9	830	100	0.9	1.9	2013	41	0	29162	202882
hill	663	Big Willie/Rodgerer	Kermadec bioregion (within EEZ)	A	44.6	176.6	813	287	0.6	1.5	2013	19	0	60270	113250
hill	669	Mt Sally	Kermadec bioregion (within EEZ)	A	44.6	176.1	813	237	1.5	3.6	2013	2	0	2350	9640
hill	670	NA	Kermadec bioregion (within EEZ)	A	44.6	175.3	733	107	1.2	2.8	1998	0	0	0	0
hill	671	Pinnie	Kermadec bioregion (within EEZ)	A	44.5	175.7	600	250	2.7	6.1	NF	0	0	0	0
hill	672	Pinnie	Kermadec bioregion (within EEZ)	A	44.7	175.8	891	139	0.7	1.6	2013	70	0	67074	186506
hill	673	Nasty Pinnie	Kermadec bioregion (within EEZ)	A	44.6	175.8	757	143	1.1	2.4	1997	0	0	0	0
hill	674	Big Pinnie	Kermadec bioregion (within EEZ)	P	44.7	175.8	585	365	9.2	20.9	2011	6	0	15800	18300
hill	677	Jumbo Jim	Kermadec bioregion (within EEZ)	P	44.6	176.5	654	416	5.7	13.0	2013	31	0	45386	275644

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					Lat	Lon	Depth					n. tows	ORH	BOE	SSO
					°S	°E	(m)	(m)	(km2)	(km2)			(kg)	(kg)	(kg)
hill	680	Neils pinnacle	Kermadec bioregion (within EEZ)	A	45.0	174.6	676	324	5.5	12.7	2013	48	0	280974	293022
hill	681	Neils condom	Kermadec bioregion (within EEZ)	P	44.6	175.8	593	407	4.6	10.7	2008	0	0	0	0
hill	682	Hill A	Kermadec bioregion (within EEZ)	A	44.7	175.7	732	268	3.1	7.2	2013	8	0	5630	27558
hill	684	Willies	Kermadec bioregion (within EEZ)	P	44.8	175.9	869	181	2.8	6.3	2013	159	0	279806	681161
hill	692	NA	Kermadec bioregion (within EEZ)	A	44.6	176.1	870	130	0.6	1.5	NF	0	0	0	0
hill	693	NA	Kermadec bioregion (within EEZ)	A	44.7	174.5	730	160	0.7	1.7	1999	0	0	0	0
hill	695	Petes Pinnie	Kermadec bioregion (within EEZ)	A	44.8	173.3	1011	139	10.3	23.3	2013	4	0	3490	6965
knoll	724	Clements ville	Kermadec bioregion (within EEZ)	A	50.1	163.5	1063	637	138.3	382.8	2013	7	0	0	6595
seamount	734	True confessions	Kermadec bioregion (within EEZ)	A	48.0	165.0	940	1060	12.6	33.6	2013	11	0	32200	14780
seamount	735	Fifino	Kermadec bioregion (within EEZ)	A	48.0	165.0	965	1035	12.6	33.6	2013	5	0	1770	13460
hill	737	DSW	Kermadec bioregion (within EEZ)	A	50.1	166.0	830	370	12.6	34.9	2013	24	16405	45	3708
hill	738	Barbara Thomas	Kermadec bioregion (within EEZ)	A	50.1	165.9	989	311	5.3	14.8	2013	54	45557	135	51129
hill	739	Jenny Shipley	Kermadec bioregion (within EEZ)	A	50.1	166.0	859	241	2.0	5.7	2013	8	0	0	9405
hill	740	Ruth Baby	Kermadec bioregion (within EEZ)	A	50.1	166.0	880	220	5.3	14.8	1998	0	0	0	0
hill	741	808pin	Kermadec bioregion (within EEZ)	A	50.2	166.1	808	292	2.0	5.7	2010	1	0	0	20
hill	743	AK47	Kermadec bioregion (within EEZ)	A	50.2	165.9	859	441	2.0	5.9	2012	36	46045	265	178085
knoll	745	Mt_Uzi	Kermadec bioregion (within EEZ)	A	50.2	165.8	900	800	5.3	15.7	2010	2	7020	10	50300
hill	755	Bobs knob	Kermadec bioregion (within EEZ)	A	49.8	175.9	950	200	0.6	1.8	2012	68	0	145348	137900
hill	756	Barbaras blaze	Kermadec bioregion (within EEZ)	A	49.8	175.9	865	285	0.5	1.5	2012	75	50	134313	71037
hill	757	Philbeys pagoda	Kermadec bioregion (within EEZ)	A	49.8	175.9	890	260	0.6	1.8	2012	13	0	30380	6380
hill	758	Salvos hill	Kermadec bioregion (within EEZ)	A	49.8	175.9	912	238	0.6	1.8	2009	1	0	300	1200
hill	759	Hill 912	Kermadec bioregion (within EEZ)	A	50.0	176.0	912	438	5.3	14.9	1998	0	0	0	0
hill	760	Outer Castlepoint	Kermadec bioregion (within EEZ)	A	41.2	176.7	764	136	112.4	226.4	2013	3	1780	0	0
hill	763	S.Castlepoint hill	Kermadec bioregion (within EEZ)	A	41.3	176.6	739	161	204.1	412.2	2013	9	22501	12	0
hill	767	Kaikoura	Kermadec bioregion (within EEZ)	A	42.5	174.0	663	187	10.8	22.6	2013	1	190	0	0
hill	768	Kaikoura	Kermadec bioregion (within EEZ)	A	42.0	174.9	950	300	10.9	22.6	NF	0	0	0	0
hill	770	Raffles Hotel	Kermadec bioregion (within EEZ)	A	42.8	187.4	1370	380	0.6	1.5	NF	0	0	0	0

Cat	ID	Name	Location	Coral	Summit			Ev	BA	CA	L.fyr	ORH/OEO Target Fishery (2009-2013)			
					Lat	Lon	Depth					n. tows	ORH	BOE	SSO
					°S	°E	(m)	(m)	(km2)	(km2)			(kg)	(kg)	(kg)
knoll	771	Saigon Sal	Kermadec bioregion (within EEZ)	A	42.8	187.5	1227	523	2.0	4.6	1995	0	0	0	0
hill	772	Kowloon	Kermadec bioregion (within EEZ)	A	42.7	187.6	1309	441	5.3	11.5	NF	0	0	0	0
knoll	773	Kai Tek	Kermadec bioregion (within EEZ)	A	42.7	187.7	1212	538	0.8	2.2	2002	0	0	0	0
hill	774	Tokyo Rose	Kermadec bioregion (within EEZ)	A	42.8	187.5	1270	480	2.0	4.6	NF	0	0	0	0
hill	775	China Beach	Kermadec bioregion (within EEZ)	A	42.9	187.5	1435	315	0.8	1.9	NF	0	0	0	0
knoll	776	Ho Chi Minh	Kermadec bioregion (within EEZ)	A	42.7	187.6	1236	514	0.6	1.7	1999	0	0	0	0
knoll	777	Krakatoa	Kermadec bioregion (within EEZ)	A	42.8	187.5	970	780	5.4	12.2	2006	0	0	0	0
knoll	778	Ho Whyte	Kermadec bioregion (within EEZ)	A	42.7	187.5	983	767	5.4	12.2	2006	0	0	0	0
hill	783	Spastic Spider	Kermadec bioregion (within EEZ)	A	48.5	165.0	1044	256	390.2	1013.7	2012	4	0	60	310
hill	799	U2-Two	Kermadec bioregion (within EEZ)	A	44.6	176.0	820	180	0.6	1.5	2013	5	0	11384	32980
hill	800	Hooks hump	Kermadec bioregion (within EEZ)	A	44.6	176.2	658	342	0.8	2.1	2013	9	100	10748	26780
hill	801	The Zuge	Kermadec bioregion (within EEZ)	A	44.7	176.3	936	264	1.1	2.7	2013	14	0	12614	87198
hill	802	Hydroslide	Kermadec bioregion (within EEZ)	A	44.6	176.3	937	213	0.6	1.5	2013	8	0	18068	61000
hill	803	VHF Pinnie	Kermadec bioregion (within EEZ)	A	44.4	176.6	650	300	4.2	9.5	2012	1	0	330	2120
hill	804	Searles summit	Kermadec bioregion (within EEZ)	A	44.5	176.7	886	144	0.6	1.5	NF	0	0	0	0
hill	817	NA	Kermadec bioregion (within EEZ)	A	49.6	179.0	750	450	3.0	8.5	NF	0	0	0	0
hill	818	NA	Kermadec bioregion (within EEZ)	A	49.5	178.9	800	350	9.3	25.2	NF	0	0	0	0
hill	819	NA	Kermadec bioregion (within EEZ)	A	49.5	179.1	1000	200	4.9	13.3	NF	0	0	0	0
hill	820	NA	Kermadec bioregion (within EEZ)	A	49.5	179.0	950	350	3.2	8.8	NF	0	0	0	0
hill	821	NA	Kermadec bioregion (within EEZ)	A	49.6	178.9	696	364	5.5	15.1	NF	0	0	0	0
hill	822	NA	Kermadec bioregion (within EEZ)	A	49.7	179.1	1400	350	18.2	49.8	NF	0	0	0	0
seamount	823	Shipley	Kermadec bioregion (within EEZ)	P	41.8	180.5	1250	1350	268.3	552.7	2006	0	0	0	0
knoll	832	Lillie	Kermadec bioregion (within EEZ)	A	35.9	178.4	1280	840	116.5	203.3	NF	0	0	0	0
seamount	833	Thompson	Kermadec bioregion (within EEZ)	A	35.3	178.9	1250	1000	63.4	109.9	NF	0	0	0	0
knoll	834	Cotton	Kermadec bioregion (within EEZ)	A	35.0	179.0	980	520	25.8	44.3	NF	0	0	0	0
hill	835	Healy Sub II	Kermadec bioregion (within EEZ)	A	35.1	179.0	1600	400	5.4	9.5	NF	0	0	0	0
seamount	836	Rapuhia	Kermadec bioregion (within EEZ)	A	34.8	178.5	650	1600	218.9	374.0	1999	0	0	0	0

Cat	ID	Name	Location	Coral	Summit			Ev	BA	CA	L.fyr	ORH/OEO Target Fishery (2009-2013)			
					Lat	Lon	Depth					n. tows	ORH	BOE	SSO
					°S	°E	(m)	(m)	(km2)	(km2)			(kg)	(kg)	(kg)
seamount	837	Giljanes	Kermadec bioregion (within EEZ)	A	34.8	178.6	700	1100	166.7	283.6	NF	0	0	0	0
knoll	839	KI4	Kermadec bioregion (within EEZ)	A	34.7	179.3	1550	950	36.6	63.1	NF	0	0	0	0
knoll	840	KI2	Kermadec bioregion (within EEZ)	A	34.5	179.2	1400	850	17.5	30.4	NF	0	0	0	0
knoll	842	NA	Kermadec bioregion (within EEZ)	A	34.5	179.1	1532	518	4.0	7.1	NF	0	0	0	0
knoll	844	NA	Kermadec bioregion (within EEZ)	A	34.6	179.0	1490	660	47.4	80.4	NF	0	0	0	0
knoll	852	NA	Kermadec bioregion (within EEZ)	A	34.5	179.6	550	500	63.4	106.9	NF	0	0	0	0
seamount	855	Cole	Kermadec bioregion (within EEZ)	A	33.4	179.9	1100	1550	152.0	252.4	NF	0	0	0	0
seamount	857	Ku1	Kermadec bioregion (within EEZ)	A	33.2	180.0	1150	1600	41.0	70.5	NF	0	0	0	0
hill	858	NA	Kermadec bioregion (within EEZ)	A	36.8	176.6	1338	262	2.3	4.2	NF	0	0	0	0
hill	859	NA	Kermadec bioregion (within EEZ)	A	37.3	177.1	1399	418	1.0	2.1	NF	0	0	0	0
hill	860	NA	Kermadec bioregion (within EEZ)	A	36.4	177.0	1350	300	42.2	74.4	NF	0	0	0	0
knoll	866	NA	Kermadec bioregion (within EEZ)	A	31.8	180.6	1598	572	5.9	9.7	NF	0	0	0	0
hill	868	NA	Kermadec bioregion (within EEZ)	A	31.7	180.7	1373	462	13.1	21.0	NF	0	0	0	0
knoll	869	NA	Kermadec bioregion (within EEZ)	A	31.1	181.1	779	895	60.7	95.6	NF	0	0	0	0
hill	870	NA	Kermadec bioregion (within EEZ)	A	30.9	180.9	1285	443	4.2	6.8	NF	0	0	0	0
knoll	875	GI1	Kermadec bioregion (within EEZ)	A	30.0	181.4	599	896	18.7	29.6	NF	0	0	0	0
knoll	876	GI2	Kermadec bioregion (within EEZ)	A	30.1	181.3	536	838	61.0	94.0	NF	0	0	0	0
knoll	891	NA	Kermadec bioregion (within EEZ)	A	35.3	177.2	1150	550	59.6	102.5	NF	0	0	0	0
hill	892	NA	Kermadec bioregion (within EEZ)	A	35.3	177.3	1400	400	16.5	28.6	NF	0	0	0	0
hill	894	NA	Kermadec bioregion (within EEZ)	A	35.5	177.2	1550	400	16.3	28.3	NF	0	0	0	0
knoll	895	NA	Kermadec bioregion (within EEZ)	A	35.5	177.3	1500	500	79.3	136.7	NF	0	0	0	0
seamount	897	Moore	Kermadec bioregion (within EEZ)	A	40.5	180.5	1587	1240	892.7	1760.2	NF	0	0	0	0
hill	900	NA	Kermadec bioregion (within EEZ)	A	31.7	180.7	1471	449	9.7	15.6	NF	0	0	0	0
seamount	901	Wright 1	Kermadec bioregion (within EEZ)	A	31.8	180.8	831	1149	70.9	113.9	NF	0	0	0	0
seamount	902	Wright 2	Kermadec bioregion (within EEZ)	A	31.8	180.8	868	1132	92.4	148.1	NF	0	0	0	0
hill	908	Volcano OP 1	Kermadec bioregion (within EEZ)	A	28.2	182.3	827	423	292.4	429.9	NF	0	0	0	0
hill	909	Volcano OP 2	Kermadec bioregion (within EEZ)	A	28.3	182.4	821	429	165.6	243.9	NF	0	0	0	0

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					Lat	Lon	Depth					n. tows	ORH	BOE	SSO
					°S	°E	(m)	(m)	(km2)	(km2)			(kg)	(kg)	(kg)
knoll	911	Putoto 2	Kermadec bioregion (within EEZ)	A	28.0	182.5	794	556	826.5	1209.0	NF	0	0	0	0
knoll	912	Volcano Q	Kermadec bioregion (within EEZ)	A	27.5	182.5	1003	717	335.9	487.9	NF	0	0	0	0
hill	913	NA	Kermadec bioregion (within EEZ)	A	27.4	182.2	1466	326	28.2	40.9	NF	0	0	0	0
hill	914	NA	Kermadec bioregion (within EEZ)	A	27.4	182.3	1329	493	11.6	17.2	NF	0	0	0	0
hill	917	Gamble 3	Kermadec bioregion (within EEZ)	A	27.3	182.7	929	421	111.7	161.8	NF	0	0	0	0
knoll	918	Rakahore	Kermadec bioregion (within EEZ)	A	26.8	182.6	551	599	125.9	180.9	NF	0	0	0	0
hill	919	NA	Kermadec bioregion (within EEZ)	A	26.5	182.7	1079	271	3.5	5.1	NF	0	0	0	0
hill	921	Hinepuia 3	Kermadec bioregion (within EEZ)	A	26.4	182.7	810	477	16.3	23.5	NF	0	0	0	0
hill	930	NA	Kermadec bioregion (within EEZ)	A	26.0	182.6	1150	300	12.7	18.0	NF	0	0	0	0
hill	979	NA	Kermadec bioregion (within EEZ)	A	44.8	174.4	591	359	5.9	13.5	1996	0	0	0	0
hill	980	NA	Kermadec bioregion (within EEZ)	A	44.6	174.3	601	304	8.2	18.7	NF	0	0	0	0
hill	981	NA	Kermadec bioregion (within EEZ)	A	50.0	177.5	1052	328	13.2	36.4	NF	0	0	0	0
hill	982	NA	Kermadec bioregion (within EEZ)	A	50.0	176.6	1010	320	10.0	27.6	2008	0	0	0	0
hill	983	NA	Kermadec bioregion (within EEZ)	A	50.0	176.6	1046	284	1.2	3.4	2010	1	0	0	5000
hill	984	NA	Kermadec bioregion (within EEZ)	A	50.0	176.7	846	484	8.0	22.3	2008	0	0	0	0
hill	985	NA	Kermadec bioregion (within EEZ)	A	47.0	175.6	1167	383	12.6	31.1	2007	0	0	0	0
hill	986	NA	Kermadec bioregion (within EEZ)	P	40.0	178.2	586	364	234.4	455.5	2012	1	3500	0	0
hill	987	Bo1	Kermadec bioregion (within EEZ)	A	49.8	183.3	869	331	22.5	61.5	NF	0	0	0	0
knoll	1002	NA	Kermadec bioregion (within EEZ)	A	50.6	165.7	710	840	1.2	4.4	NF	0	0	0	0
knoll	1003	NA	Kermadec bioregion (within EEZ)	A	50.1	165.9	1409	791	1.9	6.2	1995	0	0	0	0
seamount	1004	NA	Kermadec bioregion (within EEZ)	A	50.1	165.9	942	1278	4.4	14.4	2012	4	2200	10	2500
hill	1007	NA	Kermadec bioregion (within EEZ)	A	47.6	175.2	918	202	6.7	16.9	2006	0	0	0	0
hill	1008	NA	Kermadec bioregion (within EEZ)	A	49.7	178.5	711	369	3.7	10.2	NF	0	0	0	0
hill	1009	NA	Kermadec bioregion (within EEZ)	A	49.5	178.5	640	310	1.5	4.2	NF	0	0	0	0
hill	1010	NA	Kermadec bioregion (within EEZ)	A	49.5	178.7	675	325	2.0	5.5	NF	0	0	0	0
hill	1011	NA	Kermadec bioregion (within EEZ)	A	49.4	179.2	928	235	5.8	15.7	NF	0	0	0	0
hill	1012	NA	Kermadec bioregion (within EEZ)	A	49.5	179.4	1289	249	1.5	4.0	NF	0	0	0	0

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					Lat	Lon	Depth					n. tows	ORH	BOE	SSO
					°S	°E	(m)	(m)	(km2)	(km2)			(kg)	(kg)	(kg)
hill	1014	NA	Kermadec bioregion (within EEZ)	A	46.5	178.9	925	235	6.8	18.5	NF	0	0	0	0
hill	1020	NA	Kermadec bioregion (within EEZ)	A	49.7	179.1	1461	289	2.0	5.5	NF	0	0	0	0
hill	1021	NA	Kermadec bioregion (within EEZ)	A	49.7	179.0	1045	255	1.4	3.9	NF	0	0	0	0
hill	1022	NA	Kermadec bioregion (within EEZ)	A	49.6	179.0	506	322	5.8	16.0	NF	0	0	0	0
knoll	1050	NA	Kermadec bioregion (within EEZ)	A	27.9	181.6	1440	810	26.0	38.9	NF	0	0	0	0
knoll	1051	NA	Kermadec bioregion (within EEZ)	A	27.9	181.6	1390	860	28.3	42.4	NF	0	0	0	0
knoll	1052	NA	Kermadec bioregion (within EEZ)	A	27.9	181.7	1340	910	35.2	52.6	NF	0	0	0	0
hill	1058	NA	Kermadec bioregion (within EEZ)	A	27.4	181.7	1595	455	4.3	6.6	NF	0	0	0	0
knoll	1070	NA	Kermadec bioregion (within EEZ)	A	35.6	178.3	1580	820	177.2	306.8	NF	0	0	0	0
knoll	1074	NA	Kermadec bioregion (within EEZ)	A	35.3	178.4	1590	610	34.1	58.9	NF	0	0	0	0
seamount	1081	NA	Kermadec bioregion (within EEZ)	A	32.8	178.2	1430	1070	324.8	526.3	NF	0	0	0	0
knoll	1089	NA	Kermadec bioregion (within EEZ)	A	36.7	177.4	1600	600	42.5	75.8	NF	0	0	0	0
knoll	1107	NA	Kermadec bioregion (within EEZ)	A	35.1	177.1	1346	804	49.1	84.6	NF	0	0	0	0
knoll	1109	NA	Kermadec bioregion (within EEZ)	A	35.0	177.7	1391	609	62.3	106.3	NF	0	0	0	0
hill	1117	NA	Kermadec bioregion (within EEZ)	A	44.6	176.0	613	297	6.2	14.0	1998	0	0	0	0
hill	1123	NA	Kermadec bioregion (within EEZ)	A	49.5	178.5	542	303	2.2	6.2	NF	0	0	0	0
hill	1139	NA	Kermadec bioregion (within EEZ)	A	27.3	181.7	1555	495	6.7	10.1	NF	0	0	0	0
hill	1143	NA	Kermadec bioregion (within EEZ)	A	31.4	179.7	1420	430	12.9	20.4	NF	0	0	0	0
hill	1146	NA	Kermadec bioregion (within EEZ)	A	36.2	172.1	1288	382	4.8	8.6	NF	0	0	0	0
hill	1150	NA	Kermadec bioregion (within EEZ)	A	34.4	177.9	1150	400	104.8	175.6	NF	0	0	0	0
hill	1151	NA	Kermadec bioregion (within EEZ)	A	35.6	177.9	1430	270	60.5	101.8	NF	0	0	0	0
hill	1152	NA	Kermadec bioregion (within EEZ)	A	34.5	177.8	1120	430	391.3	657.6	NF	0	0	0	0
knoll	1162	NA	Kermadec bioregion (within EEZ)	A	33.3	180.2	1558	892	40.2	66.8	NF	0	0	0	0
hill	1166	NA	Kermadec bioregion (within EEZ)	A	29.3	181.4	1468	382	18.1	27.3	NF	0	0	0	0
hill	1168	NA	Kermadec bioregion (within EEZ)	A	29.1	181.7	797	453	10.8	16.5	NF	0	0	0	0
knoll	1178	NA	Kermadec bioregion (within EEZ)	A	26.4	182.0	1330	720	10.3	15.4	NF	0	0	0	0
knoll	1179	NA	Kermadec bioregion (within EEZ)	A	26.4	182.0	1430	620	15.0	21.9	NF	0	0	0	0

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					Lat	Lon	Depth					n. tows	ORH	BOE	SSO
					°S	°E	(m)	(m)	(km2)	(km2)			(kg)	(kg)	(kg)
knoll	1180	NA	Kermadec bioregion (within EEZ)	A	26.4	182.0	1330	720	25.8	37.4	NF	0	0	0	0
knoll	1181	NA	Kermadec bioregion (within EEZ)	A	26.4	182.0	1390	610	21.8	31.6	NF	0	0	0	0
knoll	1182	NA	Kermadec bioregion (within EEZ)	A	26.3	182.1	1440	560	14.0	20.4	NF	0	0	0	0
hill	1185	NA	Kermadec bioregion (within EEZ)	A	29.2	181.6	1521	379	3.9	6.1	NF	0	0	0	0
knoll	1186	NA	Kermadec bioregion (within EEZ)	A	29.2	181.5	1239	686	11.9	18.6	NF	0	0	0	0
knoll	1221	West Cavalli Seamount	Kermadec bioregion (within EEZ)	A	34.2	173.6	780	820	232.7	388.4	NF	0	0	0	0
hill	1224	NA	Kermadec bioregion (within EEZ)	A	31.4	179.5	1050	375	7.2	11.5	NF	0	0	0	0
knoll	1225	NA	Kermadec bioregion (within EEZ)	A	31.5	180.5	1573	597	18.7	29.9	NF	0	0	0	0
knoll	1239	NA	Kermadec bioregion (within EEZ)	A	29.5	181.5	969	501	5.7	8.9	NF	0	0	0	0
knoll	1241	NA	Kermadec bioregion (within EEZ)	A	31.8	181.0	1355	795	43.0	68.9	NF	0	0	0	0
hill	1247	NA	Kermadec bioregion (within EEZ)	A	37.9	179.2	1075	425	22.1	40.7	2013	3	120	0	65
hill	1305	NA	Kermadec bioregion (within EEZ)	A	44.7	175.2	548	282	3.5	8.0	NF	0	0	0	0
hill	1333	NA	Kermadec bioregion (within EEZ)	A	30.0	181.8	651	349	22.7	34.7	NF	0	0	0	0
knoll	1334	NA	Kermadec bioregion (within EEZ)	A	30.0	181.4	858	792	23.8	37.2	NF	0	0	0	0
hill	1336	NA	Kermadec bioregion (within EEZ)	A	29.9	181.2	1141	319	10.1	15.4	NF	0	0	0	0
knoll	1337	NA	Kermadec bioregion (within EEZ)	A	29.9	181.0	972	728	127.6	194.5	NF	0	0	0	0
hill	1342	Bo2	Kermadec bioregion (within EEZ)	A	49.8	183.3	978	272	17.0	46.6	NF	0	0	0	0
hill	1389	NA	Kermadec bioregion (within EEZ)	A	37.4	172.7	1290	260	53.7	97.2	NF	0	0	0	0
hill	1390	NA	Kermadec bioregion (within EEZ)	A	44.7	175.4	680	180	2.6	5.8	1996	0	0	0	0
hill	1399	NA	Kermadec bioregion (within EEZ)	A	44.7	174.3	743	217	2.3	5.3	1999	0	0	0	0
hill	1400	NA	Kermadec bioregion (within EEZ)	A	44.7	174.3	668	222	2.8	6.3	1991	0	0	0	0
hill	1401	NA	Kermadec bioregion (within EEZ)	A	44.7	174.5	566	314	5.3	12.1	NF	0	0	0	0
hill	1402	NA	Kermadec bioregion (within EEZ)	A	44.7	174.4	680	190	3.6	8.2	NF	0	0	0	0
knoll	1438	NA	Kermadec bioregion (within EEZ)	A	33.4	179.8	1595	805	21.0	35.2	NF	0	0	0	0
knoll	1446	NA	Kermadec bioregion (within EEZ)	A	34.9	170.3	1250	500	395.2	670.2	NF	0	0	0	0
knoll	1453	NA	Kermadec bioregion (within EEZ)	A	33.5	171.4	890	860	154.8	255.0	2004	0	0	0	0
knoll	1458	NA	Kermadec bioregion (within EEZ)	A	31.5	173.3	1580	680	20.9	33.5	NF	0	0	0	0

Cat	ID	Name	Location	Coral	Summit			Ev	BA	CA	L.fyr	ORH/OEO Target Fishery (2009-2013)			
					Lat	Lon	Depth					n. tows	ORH	BOE	SSO
					°S	°E	(m)	(m)	(km2)	(km2)			(kg)	(kg)	(kg)
hill	1459	NA	Kermadec bioregion (within EEZ)	A	31.9	173.5	1580	460	22.0	35.1	NF	0	0	0	0
knoll	1460	NA	Kermadec bioregion (within EEZ)	A	31.9	173.5	1345	695	27.2	43.8	NF	0	0	0	0
knoll	1461	NA	Kermadec bioregion (within EEZ)	A	31.9	172.8	1000	500	342.2	541.2	NF	0	0	0	0
hill	1462	NA	Kermadec bioregion (within EEZ)	A	31.5	172.8	750	400	190.4	299.3	NF	0	0	0	0
knoll	1463	NA	Kermadec bioregion (within EEZ)	A	31.2	173.0	995	605	169.8	265.2	NF	0	0	0	0
knoll	1464	NA	Kermadec bioregion (within EEZ)	A	33.7	173.9	850	900	307.3	507.7	NF	0	0	0	0
seamount	1465	NA	Kermadec bioregion (within EEZ)	A	34.2	175.1	750	1000	307.1	513.0	NF	0	0	0	0
knoll	1466	NA	Kermadec bioregion (within EEZ)	A	34.4	175.4	1000	750	689.5	1154.8	2011	2	30	0	0
knoll	1470	NA	Kermadec bioregion (within EEZ)	A	34.0	179.1	1490	710	50.9	85.2	NF	0	0	0	0
knoll	1472	NA	Kermadec bioregion (within EEZ)	A	34.4	179.7	545	705	1069.9	1787.9	NF	0	0	0	0
seamount	1473	NA	Kermadec bioregion (within EEZ)	A	34.0	178.1	890	1510	978.7	1627.9	NF	0	0	0	0
seamount	1474	NA	Kermadec bioregion (within EEZ)	A	33.8	178.2	890	1510	677.5	1121.5	NF	0	0	0	0
knoll	1476	NA	Kermadec bioregion (within EEZ)	A	33.2	178.6	895	605	299.4	488.2	NF	0	0	0	0
knoll	1477	NA	Kermadec bioregion (within EEZ)	A	32.8	178.7	890	610	626.7	1013.2	NF	0	0	0	0
hill	1538	NA	Kermadec bioregion (within EEZ)	A	46.8	171.9	1134	241	1.3	3.3	2010	2	0	0	0
hill	1539	NA	Kermadec bioregion (within EEZ)	A	46.9	171.9	1085	275	1.5	3.7	2010	4	0	5	4100
hill	1540	NA	Kermadec bioregion (within EEZ)	A	46.2	171.1	685	145	0.6	1.4	NF	0	0	0	0
hill	1541	NA	Kermadec bioregion (within EEZ)	A	46.1	171.1	604	226	2.3	5.4	NF	0	0	0	0
hill	1542	NA	Kermadec bioregion (within EEZ)	A	46.1	171.1	742	138	0.5	1.3	2006	0	0	0	0
hill	1543	NA	Kermadec bioregion (within EEZ)	A	46.1	171.4	1014	196	1.0	2.5	2013	18	0	200	49666
hill	1544	NA	Kermadec bioregion (within EEZ)	A	44.7	174.5	689	211	1.5	3.5	NF	0	0	0	0
hill	1545	NA	Kermadec bioregion (within EEZ)	A	44.7	174.3	746	204	2.2	5.1	NF	0	0	0	0
hill	1546	NA	Kermadec bioregion (within EEZ)	A	44.8	174.4	780	170	1.7	3.8	2005	0	0	0	0
hill	1547	NA	Kermadec bioregion (within EEZ)	A	44.7	174.5	733	202	1.1	2.4	NF	0	0	0	0
hill	1548	NA	Kermadec bioregion (within EEZ)	A	44.7	174.5	761	189	1.2	2.8	1991	0	0	0	0
hill	1549	NA	Kermadec bioregion (within EEZ)	A	44.7	174.7	640	310	2.0	4.7	NF	0	0	0	0
hill	1550	NA	Kermadec bioregion (within EEZ)	A	44.7	174.7	555	310	8.7	19.8	NF	0	0	0	0

Cat	ID	Name	Location	Coral	Summit			Ev	BA	CA	L.fyr	ORH/OEO Target Fishery (2009-2013)			
					Lat	Lon	Depth					n. tows	ORH	BOE	SSO
					°S	°E	(m)	(m)	(km2)	(km2)			(kg)	(kg)	(kg)
hill	1555	NA	Kermadec bioregion (within EEZ)	A	44.7	174.9	539	261	1.6	3.8	NF	0	0	0	0
hill	1556	NA	Kermadec bioregion (within EEZ)	A	44.8	175.0	649	251	1.3	3.0	NF	0	0	0	0
hill	1557	NA	Kermadec bioregion (within EEZ)	A	44.8	174.8	621	249	3.6	8.2	NF	0	0	0	0
knoll	1564	NA	Kermadec bioregion (within EEZ)	A	32.5	180.6	1290	960	26.5	43.9	NF	0	0	0	0
knoll	1565	NA	Kermadec bioregion (within EEZ)	A	32.5	180.6	740	760	107.0	172.6	NF	0	0	0	0
hill	1567	NA	Kermadec bioregion (within EEZ)	A	34.0	179.8	1280	470	15.0	25.2	NF	0	0	0	0
seamount	2	NA	Kermadec bioregion (outside EEZ)	NA	24.4	170.8	1000	2998	3484.2	4804.0	NF	0	0	0	0
seamount	3	NA	Kermadec bioregion (outside EEZ)	NA	24.3	170.0	1000	1131	663.7	913.2	NF	0	0	0	0
knoll	4	NA	Kermadec bioregion (outside EEZ)	NA	24.5	181.8	1040	860	51.0	71.4	NF	0	0	0	0
seamount	6	NA	Kermadec bioregion (outside EEZ)	NA	24.8	170.1	750	1620	2597.7	3596.1	NF	0	0	0	0
knoll	15	NA	Kermadec bioregion (outside EEZ)	NA	25.4	168.9	1000	500	549.6	768.0	NF	0	0	0	0
seamount	18	NA	Kermadec bioregion (outside EEZ)	NA	25.4	168.3	1000	1250	377.4	530.1	NF	0	0	0	0
seamount	20	NA	Kermadec bioregion (outside EEZ)	NA	25.3	170.5	1000	1100	5248.3	7331.6	NF	0	0	0	0
seamount	22	NA	Kermadec bioregion (outside EEZ)	NA	24.9	168.4	750	1000	568.0	789.2	NF	0	0	0	0
knoll	34	NA	Kermadec bioregion (outside EEZ)	NA	26.4	167.3	500	695	1163.0	1654.5	NF	0	0	0	0
seamount	43	Coquile Seamount	Kermadec bioregion (outside EEZ)	NA	27.0	173.6	1021	3101	4029.1	5800.4	NF	0	0	0	0
seamount	45	NA	Kermadec bioregion (outside EEZ)	NA	27.2	170.0	1000	2826	3034.9	4383.6	NF	0	0	0	0
knoll	52	NA	Kermadec bioregion (outside EEZ)	NA	28.3	173.1	1095	955	1384.6	2035.0	NF	0	0	0	0
seamount	67	Rigil Seamount	Kermadec bioregion (outside EEZ)	NA	28.6	186.7	1340	3229	2665.8	3963.3	NF	0	0	0	0
seamount	88	NA	Kermadec bioregion (outside EEZ)	NA	29.5	173.7	1000	1750	464.7	709.8	NF	0	0	0	0
seamount	90	NA	Kermadec bioregion (outside EEZ)	NA	29.8	170.1	592	2417	1738.9	2638.7	NF	0	0	0	0
seamount	91	NA	Kermadec bioregion (outside EEZ)	NA	29.7	173.7	1500	1268	301.8	459.2	NF	0	0	0	0
seamount	92	NA	Kermadec bioregion (outside EEZ)	NA	29.8	169.2	802	1448	564.2	858.2	NF	0	0	0	0
seamount	97	NA	Kermadec bioregion (outside EEZ)	NA	30.5	170.2	1450	1550	685.0	1045.6	NF	0	0	0	0
knoll	98	NA	Kermadec bioregion (outside EEZ)	NA	30.0	171.1	1416	773	222.0	338.5	NF	0	0	0	0
seamount	101	NA	Kermadec bioregion (outside EEZ)	NA	30.2	171.3	555	1614	1261.8	1930.0	NF	0	0	0	0
hill	104	NA	Kermadec bioregion (outside EEZ)	NA	30.3	173.7	500	250	910.4	1393.9	NF	0	0	0	0

Cat	ID	Name	Location	Coral	Summit			Ev	BA	CA	L.fyr	ORH/OEO Target Fishery (2009-2013)			
					Lat	Lon	Depth					n. tows	ORH	BOE	SSO
					°S	°E	(m)	(m)	(km2)	(km2)			(kg)	(kg)	(kg)
seamount	106	NA	Kermadec bioregion (outside EEZ)	NA	30.5	169.9	1000	1750	1381.7	2126.8	NF	0	0	0	0
seamount	108	NA	Kermadec bioregion (outside EEZ)	NA	30.4	174.3	1025	2475	559.1	867.2	NF	0	0	0	0
seamount	110	NA	Kermadec bioregion (outside EEZ)	NA	30.5	169.6	1390	1710	706.0	1089.9	NF	0	0	0	0
seamount	119	NA	Kermadec bioregion (outside EEZ)	NA	30.9	174.2	1028	2724	350.5	554.4	NF	0	0	0	0
seamount	121	Kiwi Seamount	Kermadec bioregion (outside EEZ)	NA	31.0	173.6	1000	1673	407.5	637.1	NF	0	0	0	0
seamount	127	Louisville Guyot	Kermadec bioregion (outside EEZ)	NA	31.4	187.9	1140	4390	6378.6	10024.0	NF	0	0	0	0
seamount	130	NA	Kermadec bioregion (outside EEZ)	NA	31.3	174.7	1500	2250	564.2	888.7	NF	0	0	0	0
seamount	131	NA	Kermadec bioregion (outside EEZ)	NA	31.3	175.2	885	2865	482.8	767.2	1996	0	0	0	0
seamount	138	Devonport Seamount	Kermadec bioregion (outside EEZ)	NA	31.6	175.4	1201	2549	410.8	655.3	NF	0	0	0	0
seamount	150	Burton Seamount	Kermadec bioregion (outside EEZ)	NA	32.2	188.1	1540	2960	2200.0	3517.6	NF	0	0	0	0
seamount	173	Rossel Seamount	Kermadec bioregion (outside EEZ)	NA	33.6	188.7	1400	3100	2526.7	4145.7	NF	0	0	0	0
seamount	199	Auribeau Seamount	Kermadec bioregion (outside EEZ)	NA	34.8	189.3	1149	4052	1856.1	3157.5	NF	0	0	0	0
seamount	216	Forde Guyot	Kermadec bioregion (outside EEZ)	NA	35.4	189.6	980	3520	2274.4	3914.8	2005	0	0	0	0
seamount	239	CenSeam Seamount	Kermadec bioregion (outside EEZ)	NA	36.9	190.3	955	3868	4480.5	8007.9	2006	0	0	0	0
seamount	299	NA	Kermadec bioregion (outside EEZ)	NA	41.1	190.8	1019	3499	778.9	1578.4	NF	0	0	0	0
hill	418	NA	Kermadec bioregion (outside EEZ)	NA	26.1	179.4	1500	299	920.8	1302.2	NF	0	0	0	0
seamount	419	NA	Kermadec bioregion (outside EEZ)	NA	26.6	185.4	1229	3389	3481.9	4997.0	NF	0	0	0	0
seamount	420	NA	Kermadec bioregion (outside EEZ)	NA	27.8	186.0	1109	3642	3362.7	4906.8	NF	0	0	0	0
seamount	474	NA	Kermadec bioregion (outside EEZ)	NA	37.6	190.9	1035	3613	6087.7	11060.6	NF	0	0	0	0
seamount	482	NA	Kermadec bioregion (outside EEZ)	NA	39.1	192.6	878	2872	2887.9	5493.0	2013	8	350	0	0
seamount	524	Marion Smt	Kermadec bioregion (outside EEZ)	NA	28.2	175.4	700	2950	6670.0	9809.7	NF	0	0	0	0
hill	550	Mt Longva	Kermadec bioregion (outside EEZ)	NA	37.3	168.1	662	413	7.4	13.6	2013	47	34119	0	0
seamount	747	Mt Whales	Kermadec bioregion (outside EEZ)	NA	40.9	194.9	662	3838	4352.9	8706.7	2013	30	28412	0	9
seamount	748	NA	Kermadec bioregion (outside EEZ)	NA	40.1	193.8	1420	2830	1138.6	2228.1	NF	0	0	0	0
seamount	749	NA	Kermadec bioregion (outside EEZ)	NA	40.5	194.3	1070	3430	1581.7	3133.9	2004	0	0	0	0
seamount	751	Mt Ghost	Kermadec bioregion (outside EEZ)	NA	40.7	194.7	620	3880	3203.6	6382.2	2013	12	1530	0	8
seamount	752	Valerie Seamount	Kermadec bioregion (outside EEZ)	NA	41.5	195.8	750	3750	8259.8	16736.3	2013	2	0	0	0

Cat	ID	Name	Location	Coral	Summit			Ev	BA	CA	L.fyr	ORH/OEO Target Fishery (2009-2013)			
					Lat	Lon	Depth					n. tows	ORH	BOE	SSO
					°S	°E	(m)	(m)	(km2)	(km2)			(kg)	(kg)	(kg)
seamount	753	NA	Kermadec bioregion (outside EEZ)	NA	37.9	191.7	980	2770	1454.2	2681.6	2007	0	0	0	0
hill	922	NA	Kermadec bioregion (outside EEZ)	NA	25.7	182.8	826	304	2.9	4.2	NF	0	0	0	0
knoll	925	Volcano V 2	Kermadec bioregion (outside EEZ)	NA	25.2	182.9	833	617	10.6	15.3	NF	0	0	0	0
hill	926	Volcano V 3	Kermadec bioregion (outside EEZ)	NA	25.2	182.9	694	387	4.4	6.4	NF	0	0	0	0
knoll	927	Volcano V 4	Kermadec bioregion (outside EEZ)	NA	25.2	182.9	538	812	14.8	21.6	NF	0	0	0	0
knoll	928	Volcano V 5	Kermadec bioregion (outside EEZ)	NA	25.2	182.9	768	782	35.7	50.8	NF	0	0	0	0
hill	929	NA	Kermadec bioregion (outside EEZ)	NA	25.3	183.0	580	445	3.6	5.3	NF	0	0	0	0
hill	931	NA	Kermadec bioregion (outside EEZ)	NA	25.9	182.6	1007	315	4.6	6.6	NF	0	0	0	0
hill	932	NA	Kermadec bioregion (outside EEZ)	NA	25.9	182.6	1040	282	11.6	16.5	NF	0	0	0	0
hill	933	NA	Kermadec bioregion (outside EEZ)	NA	25.8	182.4	1193	290	5.5	7.9	NF	0	0	0	0
hill	934	NA	Kermadec bioregion (outside EEZ)	NA	25.7	182.4	1236	394	17.8	25.2	NF	0	0	0	0
hill	935	NA	Kermadec bioregion (outside EEZ)	NA	25.6	182.4	1084	496	7.0	10.2	NF	0	0	0	0
hill	936	NA	Kermadec bioregion (outside EEZ)	NA	25.5	182.2	1274	290	7.7	10.9	NF	0	0	0	0
knoll	937	NA	Kermadec bioregion (outside EEZ)	NA	25.5	182.2	1159	528	12.8	18.3	NF	0	0	0	0
hill	938	NA	Kermadec bioregion (outside EEZ)	NA	25.5	182.1	1235	479	11.8	16.9	NF	0	0	0	0
knoll	939	NA	Kermadec bioregion (outside EEZ)	NA	25.4	182.1	1137	501	3.1	4.7	NF	0	0	0	0
hill	940	NA	Kermadec bioregion (outside EEZ)	NA	25.4	182.1	1315	421	9.1	12.9	NF	0	0	0	0
knoll	941	NA	Kermadec bioregion (outside EEZ)	NA	25.3	182.0	1490	534	4.8	7.1	NF	0	0	0	0
knoll	942	NA	Kermadec bioregion (outside EEZ)	NA	25.2	182.0	1188	806	17.1	24.8	NF	0	0	0	0
hill	943	NA	Kermadec bioregion (outside EEZ)	NA	25.2	181.9	1385	365	1.6	2.5	NF	0	0	0	0
hill	944	NA	Kermadec bioregion (outside EEZ)	NA	25.2	181.9	1367	294	18.2	25.5	NF	0	0	0	0
hill	945	NA	Kermadec bioregion (outside EEZ)	NA	25.2	181.9	1521	334	1.7	2.6	NF	0	0	0	0
hill	946	NA	Kermadec bioregion (outside EEZ)	NA	25.2	181.8	1172	404	2.6	3.9	NF	0	0	0	0
hill	947	NA	Kermadec bioregion (outside EEZ)	NA	25.1	181.8	1059	360	11.0	15.6	NF	0	0	0	0
hill	948	NA	Kermadec bioregion (outside EEZ)	NA	25.1	181.8	1316	324	2.4	3.5	NF	0	0	0	0
hill	950	NA	Kermadec bioregion (outside EEZ)	NA	25.5	182.2	1045	289	9.0	12.7	NF	0	0	0	0
knoll	951	NA	Kermadec bioregion (outside EEZ)	NA	25.3	182.2	809	609	24.2	34.3	NF	0	0	0	0

Cat	ID	Name	Location	Coral	Summit			Ev	BA	CA	L.fyr	ORH/OEO Target Fishery (2009-2013)			
					Lat	Lon	Depth					n. tows	ORH	BOE	SSO
					°S	°E	(m)	(m)	(km2)	(km2)			(kg)	(kg)	(kg)
knoll	1060	NA	Kermadec bioregion (outside EEZ)	NA	24.9	182.9	1040	560	13.9	19.7	NF	0	0	0	0
knoll	1063	NA	Kermadec bioregion (outside EEZ)	NA	23.9	183.2	1080	570	126.6	173.4	NF	0	0	0	0
knoll	1064	NA	Kermadec bioregion (outside EEZ)	NA	24.2	183.2	640	810	512.7	703.9	NF	0	0	0	0
seamount	1090	NA	Kermadec bioregion (outside EEZ)	NA	29.5	169.6	911	1339	549.3	829.2	NF	0	0	0	0
knoll	1091	NA	Kermadec bioregion (outside EEZ)	NA	29.3	169.8	1160	890	252.1	379.3	NF	0	0	0	0
seamount	1092	NA	Kermadec bioregion (outside EEZ)	NA	29.7	168.8	729	1521	1226.9	1858.7	NF	0	0	0	0
knoll	1093	NA	Kermadec bioregion (outside EEZ)	NA	28.6	169.9	1500	500	86.3	128.0	NF	0	0	0	0
knoll	1096	NA	Kermadec bioregion (outside EEZ)	NA	29.0	167.6	675	575	10.9	16.8	NF	0	0	0	0
hill	1097	NA	Kermadec bioregion (outside EEZ)	NA	29.0	167.6	828	292	2.7	4.2	NF	0	0	0	0
hill	1098	NA	Kermadec bioregion (outside EEZ)	NA	28.8	167.6	502	298	73.3	109.0	NF	0	0	0	0
knoll	1242	NA	Kermadec bioregion (outside EEZ)	NA	25.9	182.7	620	540	8.2	12.0	NF	0	0	0	0
hill	1243	NA	Kermadec bioregion (outside EEZ)	NA	25.9	182.7	940	360	6.3	9.1	NF	0	0	0	0
hill	1246	NA	Kermadec bioregion (outside EEZ)	NA	36.0	166.2	920	280	18.9	33.1	2006	0	0	0	0
knoll	1248	NA	Kermadec bioregion (outside EEZ)	NA	24.5	181.9	1392	508	6.5	9.3	NF	0	0	0	0
knoll	1249	NA	Kermadec bioregion (outside EEZ)	NA	24.4	182.0	1136	684	14.6	20.8	NF	0	0	0	0
seamount	1298	Pierson Seamount	Kermadec bioregion (outside EEZ)	NA	35.0	189.2	1393	3757	874.4	1507.0	NF	0	0	0	0
seamount	1310	NA	Kermadec bioregion (outside EEZ)	NA	28.2	186.4	1532	2818	1426.6	2106.5	NF	0	0	0	0
knoll	1344	NA	Kermadec bioregion (outside EEZ)	NA	25.5	182.0	1524	526	6.2	9.1	NF	0	0	0	0
seamount	1364	Canopus Seamount	Kermadec bioregion (outside EEZ)	NA	26.4	185.3	1580	2920	1599.3	2287.9	NF	0	0	0	0
knoll	1365	NA	Kermadec bioregion (outside EEZ)	NA	25.1	181.9	840	660	91.8	128.3	NF	0	0	0	0
hill	1366	NA	Kermadec bioregion (outside EEZ)	NA	25.0	181.9	1090	410	3.7	5.4	NF	0	0	0	0
seamount	1367	NA	Kermadec bioregion (outside EEZ)	NA	29.9	172.9	744	1056	969.6	1476.5	NF	0	0	0	0
seamount	1369	NA	Kermadec bioregion (outside EEZ)	NA	29.7	171.6	836	1664	564.5	858.9	NF	0	0	0	0
seamount	1370	NA	Kermadec bioregion (outside EEZ)	NA	29.6	171.7	792	1708	1212.5	1831.6	NF	0	0	0	0
knoll	1416	NA	Kermadec bioregion (outside EEZ)	NA	29.5	173.0	1090	510	55.0	83.1	NF	0	0	0	0
knoll	1417	NA	Kermadec bioregion (outside EEZ)	NA	29.3	173.0	790	860	233.8	352.2	NF	0	0	0	0
hill	1418	NA	Kermadec bioregion (outside EEZ)	NA	29.2	173.1	1490	330	16.8	25.3	NF	0	0	0	0

Cat	ID	Name	Location	Coral	Summit			Ev	BA	CA	L.fyr	ORH/OEO Target Fishery (2009-2013)			
					Lat	Lon	Depth					n. tows	ORH	BOE	SSO
					°S	°E	(m)	(m)	(km2)	(km2)			(kg)	(kg)	(kg)
knoll	1419	NA	Kermadec bioregion (outside EEZ)	NA	29.1	173.1	1045	705	46.5	70.3	NF	0	0	0	0
hill	1420	NA	Kermadec bioregion (outside EEZ)	NA	29.1	173.0	1140	460	158.0	236.5	NF	0	0	0	0
knoll	1421	NA	Kermadec bioregion (outside EEZ)	NA	27.9	173.0	1340	710	219.6	321.8	NF	0	0	0	0
knoll	1423	NA	Kermadec bioregion (outside EEZ)	NA	28.5	173.1	1140	560	72.6	107.7	NF	0	0	0	0
hill	1424	NA	Kermadec bioregion (outside EEZ)	NA	28.5	173.1	1340	360	19.1	28.4	NF	0	0	0	0
seamount	1427	NA	Kermadec bioregion (outside EEZ)	NA	28.9	171.7	1390	1310	270.2	404.7	NF	0	0	0	0
seamount	1431	NA	Kermadec bioregion (outside EEZ)	NA	29.1	171.7	1390	1360	467.8	701.7	NF	0	0	0	0
seamount	1432	NA	Kermadec bioregion (outside EEZ)	NA	28.6	171.7	1545	1205	362.5	538.6	NF	0	0	0	0
seamount	1455	NA	Kermadec bioregion (outside EEZ)	NA	31.3	175.1	1540	2160	165.5	265.5	NF	0	0	0	0
seamount	1457	NA	Kermadec bioregion (outside EEZ)	NA	31.3	174.6	1500	2100	1111.8	1742.5	NF	0	0	0	0
seamount	1467	NA	Kermadec bioregion (outside EEZ)	NA	30.9	173.8	1250	1000	255.2	396.6	NF	0	0	0	0
seamount	1479	Hadar Seamount	Kermadec bioregion (outside EEZ)	NA	38.2	191.4	1250	2750	946.2	1755.7	NF	0	0	0	0
seamount	1480	NA	Kermadec bioregion (outside EEZ)	NA	39.6	193.3	1385	2865	1286.6	2483.4	NF	0	0	0	0
seamount	1481	NA	Kermadec bioregion (outside EEZ)	NA	39.5	192.8	1500	2750	1231.0	2366.9	NF	0	0	0	0
seamount	1482	NA	Kermadec bioregion (outside EEZ)	NA	39.7	193.7	1375	3145	1478.2	2860.1	NF	0	0	0	0
seamount	1483	NA	Kermadec bioregion (outside EEZ)	NA	39.9	193.9	1250	3000	1134.9	2208.4	NF	0	0	0	0
seamount	1484	NA	Kermadec bioregion (outside EEZ)	NA	40.0	194.2	1250	3000	1072.3	2095.0	NF	0	0	0	0
seamount	1485	NA	Kermadec bioregion (outside EEZ)	NA	41.9	196.3	918	3332	3220.7	6627.3	2000	0	0	0	0
seamount	1487	NA	Kermadec bioregion (outside EEZ)	NA	42.5	197.1	655	3845	4352.3	9073.7	NF	0	0	0	0
seamount	1489	NA	Kermadec bioregion (outside EEZ)	NA	42.8	198.1	810	3690	1827.6	3883.4	2013	10	713	0	8
seamount	1490	NA	Kermadec bioregion (outside EEZ)	NA	43.5	198.6	690	3810	4178.2	9058.3	1995	0	0	0	0
seamount	1491	NA	Kermadec bioregion (outside EEZ)	NA	43.7	198.9	1010	3490	1608.0	3519.5	2013	1	0	0	5
seamount	1492	NA	Kermadec bioregion (outside EEZ)	NA	44.0	199.3	740	3760	2933.5	6462.9	2012	7	1419	33	265
seamount	1495	Danseur Seamount	Kermadec bioregion (outside EEZ)	NA	36.1	190.5	1000	3500	3823.0	6703.5	2007	0	0	0	0
seamount	1496	NA	Kermadec bioregion (outside EEZ)	NA	35.8	190.1	1395	3105	859.6	1505.6	NF	0	0	0	0
seamount	1497	NA	Kermadec bioregion (outside EEZ)	NA	35.6	189.8	1210	3290	1295.4	2248.9	NF	0	0	0	0
seamount	1498	Blavier Seamount	Kermadec bioregion (outside EEZ)	NA	34.0	188.7	1530	2970	2177.3	3624.6	NF	0	0	0	0

Cat	ID	Name	Location	Coral	Summit			Ev	BA	CA	L.fyr	ORH/OEO Target Fishery (2009-2013)			
					Lat	Lon	Depth					n. tows	ORH	BOE	SSO
					°S	°E	(m)	(m)	(km2)	(km2)			(kg)	(kg)	(kg)
seamount	1499	Trobiant Seamount	Kermadec bioregion (outside EEZ)	NA	33.7	188.5	1240	3260	2974.8	4913.1	NF	0	0	0	0
seamount	1501	NA	Kermadec bioregion (outside EEZ)	NA	32.7	188.4	1540	2960	1463.8	2371.7	NF	0	0	0	0
seamount	1502	NA	Kermadec bioregion (outside EEZ)	NA	32.6	188.2	1490	3010	1175.6	1899.0	NF	0	0	0	0
seamount	1507	NA	Kermadec bioregion (outside EEZ)	NA	28.7	186.4	1500	3000	1157.1	1728.3	NF	0	0	0	0
seamount	1518	NA	Kermadec bioregion (outside EEZ)	NA	47.9	210.3	1090	3510	1371.3	3498.3	2000	0	0	0	0
seamount	1523	NA	Kermadec bioregion (outside EEZ)	NA	46.1	205.7	590	4110	3834.5	9120.0	2013	20	55480	2650	55
seamount	1525	NA	Kermadec bioregion (outside EEZ)	NA	46.2	204.1	590	4010	9520.3	22685.6	2013	39	167902	14999	27
seamount	1526	NA	Kermadec bioregion (outside EEZ)	NA	45.4	202.4	540	4160	11263.6	26003.7	1995	0	0	0	0
knoll	1528	NA	Kermadec bioregion (outside EEZ)	NA	33.8	167.8	966	534	173.8	287.5	NF	0	0	0	0
hill	1535	NA	Kermadec bioregion (outside EEZ)	NA	34.0	167.5	915	335	112.3	186.4	2013	20	14815	0	0
hill	1536	NA	Kermadec bioregion (outside EEZ)	NA	33.6	167.8	830	370	28.9	47.7	2013	55	66570	0	0
knoll	387	NA	EEZ	A	52.0	165.3	1558	622	258.4	775.0	NF	0	0	0	0
knoll	391	NA	EEZ	A	52.9	165.0	1213	962	5179.9	16189.9	NF	0	0	0	0
hill	401	NA	EEZ	A	55.0	169.2	1159	341	250.3	867.2	NF	0	0	0	0
hill	503	Hill5	EEZ	A	37.7	179.3	960	240	13.8	25.2	2013	5	7303	0	0
hill	542	Tolaga Knoll	EEZ	A	38.8	178.8	680	320	35.9	67.4	2013	7	4420	0	0
hill	569	Godiva (N)	EEZ	A	46.9	165.5	964	236	6.7	16.2	2013	2	0	8000	6500
hill	675	Pinnie	EEZ	A	44.5	175.8	500	300	3.5	8.0	NF	0	0	0	0
hill	710	Hill3	EEZ	A	51.9	165.5	705	319	2.8	8.4	NF	0	0	0	0
hill	711	Hill4	EEZ	A	51.6	165.6	745	255	8.6	25.5	NF	0	0	0	0
knoll	725	Searle City	EEZ	A	49.1	164.3	802	698	276.1	719.9	2013	22	0	35260	63950
knoll	726	Jackos	EEZ	A	50.0	163.7	927	873	37.3	101.7	2013	20	0	4880	85185
hill	742	Housing Corp	EEZ	A	50.2	166.0	854	196	2.3	6.3	2000	0	0	0	0
hill	978	NA	EEZ	A	44.8	174.9	516	314	12.6	28.7	NF	0	0	0	0
hill	1001	NA	EEZ	A	51.6	165.5	972	203	1.2	3.5	1996	0	0	0	0
knoll	1005	NA	EEZ	A	52.4	165.4	1290	610	1.4	4.6	NF	0	0	0	0
knoll	1006	NA	EEZ	A	52.8	165.2	1464	836	1.8	6.4	NF	0	0	0	0

Cat	ID	Name	Location	Coral	Summit			Ev	BA	CA	L.fyr	ORH/OEO Target Fishery (2009-2013)			
					Lat	Lon	Depth					n. tows	ORH	BOE	SSO
					°S	°E	(m)						(kg)	(kg)	(kg)
knoll	1229	NA	EEZ	A	31.6	180.5	1506	614	17.2	27.6	NF	0	0	0	0
hill	1332	NA	EEZ	A	49.7	178.5	522	428	6.6	18.1	NF	0	0	0	0

Appendix 2: UTF table including annual ORH/OEO target trawl fishery catch (kg, by species) and effort (no. tows) information , for the period 2008-09 to 2012-13, for UTFs with summit depths between 500-1600 m, sorted by location (unit of assessment (UoA) areas ORH7A & Westpac Bank, ORH3B Northwest Chatham Rise, ORH3B East & South Chatham Rise, the New Zealand EEZ, and the lower bathyal Kermadec bioregion (both within and outside the EEZ). Cat = UTF category; ID = database Identifier; fyr = fishing year (1 October to 30 September); ORH = orange roughy; BOE = black oreo; SSO = smooth oreo.

Cat	ID	Location	no. tows by fyr					ORH	ORH	ORH	ORH	ORH	SSO	SSO	SSO	SSO	SSO	BOE	BOE	BOE	BOE	BOE
			2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
hill	577	ORH7A and Westpac	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	578	ORH7A and Westpac	8	2	8	18	24	36900	25500	38100	75431	76520	0	0	0	0	0	0	0	0	0	0
hill	579	ORH7A and Westpac	2	1	8	5	24	3600	2500	26071	6893	28075	0	0	0	0	0	0	0	0	0	0
hill	581	ORH7A and Westpac	2	6	0	0	1	21000	4401	0	0	1700	0	0	0	0	0	0	0	0	0	0
hill	582	ORH7A and Westpac	2	1	1	7	1	750	10	5000	8060	600	0	0	0	16	0	0	0	0	0	0
hill	583	ORH3B NWCR	4	8	0	0	0	800	3075	0	0	0	90	93	0	0	0	0	0	0	0	0
hill	584	ORH3B NWCR	1	2	0	0	0	3600	45	0	0	0	40	0	0	0	0	0	0	0	0	0
hill	585	ORH3B NWCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	586	ORH3B NWCR	48	63	3	5	6	262580	268241	7000	27100	40000	765	1779	43	185	375	0	10	1	50	90
hill	587	ORH3B NWCR	1	0	0	0	0	40	0	0	0	0	20	0	0	0	0	0	0	0	0	0
hill	588	ORH3B NWCR	2	3	0	0	0	0	205	0	0	0	0	20	0	0	0	0	0	0	0	0
hill	589	ORH3B NWCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	590	ORH3B NWCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	591	ORH3B NWCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	592	ORH3B NWCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	593	ORH3B NWCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	594	ORH3B NWCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	595	ORH3B NWCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	596	ORH3B NWCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	597	ORH3B NWCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	598	ORH3B NWCR	2	6	0	0	0	200	1355	0	0	0	40	125	0	0	0	0	0	0	0	0
hill	599	ORH3B NWCR	1	2	0	0	0	0	2200	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	601	ORH3B NWCR	0	1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	602	ORH3B NWCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Cat	ID	Location	no. tows by fyr					ORH	ORH	ORH	ORH	ORH	SSO	SSO	SSO	SSO	SSO	BOE	BOE	BOE	BOE	BOE
			2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
hill	603	ORH3B NWCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	604	ORH3B NWCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	605	ORH3B NWCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	606	ORH3B NWCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	796	ORH3B NWCR	1	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	797	ORH3B NWCR	1	0	0	0	0	70000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	798	ORH3B NWCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	328	ORH3B ESCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	608	ORH3B ESCR	34	63	12	7	10	343613	489138	105710	107162	206500	210	130	16	36	230	0	5	5	0	0
hill	610	ORH3B ESCR	26	16	4	4	2	31760	32734	4250	4810	5350	1655	2570	1458	376	580	0	0	0	0	0
hill	611	ORH3B ESCR	27	13	5	7	2	70740	17480	6660	7520	3000	983	750	22	43	160	0	10	0	0	0
hill	612	ORH3B ESCR	53	17	9	6	2	146979	19685	61180	47790	500	21928	3238	18440	3318	40	0	0	500	0	0
hill	613	ORH3B ESCR	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	614	ORH3B ESCR	6	1	1	0	0	1850	40	100	0	0	745	10	2000	0	0	0	0	0	0	0
knoll	615	ORH3B ESCR	24	35	16	17	17	20867	82229	36870	18220	53550	5020	15743	10140	10128	16700	430	1666	885	849	250
hill	616	ORH3B ESCR	13	10	5	7	4	1400	935	1202	10580	2002	20280	18223	8081	8376	1804	70	0	1	464	50
knoll	617	ORH3B ESCR	61	27	15	6	12	85537	6958	10200	5990	26154	44270	27902	16120	6788	24596	4295	1180	335	160	100
knoll	618	ORH3B ESCR	27	7	4	9	6	14800	4172	6240	4950	11550	3025	930	2800	3386	275	50	60	50	0	20
hill	619	ORH3B ESCR	23	11	1	5	4	10820	3175	0	3910	3050	3690	1695	1000	550	50	60	40	0	0	0
hill	620	ORH3B ESCR	1	0	0	1	3	150	0	0	19000	5500	100	0	0	1000	200	0	0	0	0	100
hill	621	ORH3B ESCR	11	12	14	16	10	25600	16955	46400	49690	18300	1090	800	4040	442	550	0	810	1400	142	150
hill	623	ORH3B ESCR	6	6	3	1	1	4340	1560	6000	1500	0	290	290	500	250	20	100	64	0	250	0
hill	624	ORH3B ESCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	625	ORH3B ESCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	628	ORH3B ESCR	48	20	16	10	16	142225	24240	79630	34400	36766	2474	636	2233	1872	2270	205	0	700	0	150
hill	629	ORH3B ESCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	630	ORH3B ESCR	13	4	0	11	0	9435	780	0	23600	0	893	125	0	1250	0	100	50	0	0	0
hill	631	ORH3B ESCR	7	6	2	1	3	2770	740	1004	200	2800	1490	270	580	3000	500	0	0	0	0	30

Cat	ID	Location	no. tows by fyr					ORH	ORH	ORH	ORH	ORH	SSO	SSO	SSO	SSO	SSO	BOE	BOE	BOE	BOE	BOE
			2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
hill	632	ORH3B ESCR	3	2	0	0	1	0	35100	0	0	3000	1150	450	0	0	500	1000	0	0	0	0
hill	633	ORH3B ESCR	9	8	0	6	0	4860	16700	0	7650	0	51035	61900	0	14050	0	15930	3200	0	6000	0
hill	634	ORH3B ESCR	10	3	2	0	0	6133	200	2000	0	0	45376	100	500	0	0	24806	120	0	0	0
hill	635	ORH3B ESCR	10	1	1	6	0	7732	0	500	8350	0	41342	0	2000	11450	0	13260	0	500	3100	0
hill	636	ORH3B ESCR	19	4	2	1	0	2541	75	40	1500	0	21715	1400	940	1500	0	210	0	0	0	0
hill	637	ORH3B ESCR	4	2	2	2	3	968	0	320	0	0	14534	3102	3360	8548	225	480	0	0	0	25
hill	638	ORH3B ESCR	10	6	1	4	0	1584	750	1500	10400	0	1368	5400	0	4382	0	200	130	0	738	0
hill	639	ORH3B ESCR	20	1	1	0	0	12244	200	1840	0	0	17395	4200	2680	0	0	1730	300	60	0	0
hill	640	ORH3B ESCR	13	10	11	8	5	7550	10800	7580	1640	1800	45100	59150	75900	22498	17000	1390	2300	2432	430	826
hill	641	ORH3B ESCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	642	ORH3B ESCR	7	3	0	0	0	2515	6050	0	0	0	8071	10500	0	0	0	420	0	0	0	0
hill	647	ORH3B ESCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	648	ORH3B ESCR	38	19	16	12	9	41263	5404	88880	17570	4770	12100	5736	20440	4220	590	3240	1265	4330	640	400
hill	651	ORH3B ESCR	25	12	13	8	15	4870	260	20	23	155	279834	67208	124520	64700	104700	14593	3472	797	1850	600
hill	652	ORH3B ESCR	13	8	7	13	26	15011	1120	15775	4440	29740	50482	14900	18120	68580	95400	45401	26970	20420	20200	64500
hill	653	ORH3B ESCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	654	ORH3B ESCR	6	5	4	8	9	0	810	146	100	50	42380	38800	54680	81622	109300	326	852	962	774	330
hill	657	ORH3B ESCR	20	28	11	24	21	5775	11262	12200	720	1390	159162	196408	97520	350172	127194	4320	7492	2722	6010	4483
hill	658	ORH3B ESCR	4	9	2	1	0	340	2108	540	840	0	5479	18942	10080	722	0	450	420	0	0	0
hill	659	ORH3B ESCR	37	18	21	23	26	613	4450	304	20	122	355174	145288	110120	357628	462100	20	97	49	100	70
hill	661	ORH3B ESCR	18	13	11	25	10	21832	2787	2425	1455	1198	89260	175266	70260	221193	43369	971	2130	1180	782	1160
hill	664	ORH3B ESCR	3	3	7	8	10	130	700	500	750	1070	12000	26000	127000	81000	67000	50	0	0	80	1300
hill	665	ORH3B ESCR	35	24	29	44	35	0	0	1002	100	0	433126	319260	493870	633728	347518	8	3	312	609	202
hill	666	ORH3B ESCR	1	0	2	0	0	1000	0	440	0	0	500	0	1380	0	0	500	0	0	0	0
hill	667	ORH3B ESCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	668	ORH3B ESCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	697	ORH3B ESCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	794	ORH3B ESCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Cat	ID	Location	no. tows by fyr					ORH	ORH	ORH	ORH	ORH	SSO	SSO	SSO	SSO	SSO	BOE	BOE	BOE	BOE	BOE
			2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
hill	805	ORH3B ESCR	0	0	0	0	1	0	0	0	0	0	0	0	0	0	20000	0	0	0	0	0
hill	806	ORH3B ESCR	4	4	4	1	7	3079	950	590	0	570	11128	8180	14320	6000	30250	1040	1250	466	10	3034
hill	807	ORH3B ESCR	29	32	3	7	6	75862	153930	12040	9280	38000	47411	24970	3300	10690	5000	75510	101826	4900	24490	23500
hill	808	ORH3B ESCR	3	6	1	3	0	2700	7850	0	200	0	8224	89770	8000	16500	0	20	1072	0	0	0
hill	810	ORH3B ESCR	4	1	0	1	0	100	0	0	0	0	51010	30000	0	10000	0	0	0	0	100	0
hill	812	ORH3B ESCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	813	ORH3B ESCR	2	0	0	0	0	40	0	0	0	0	60	0	0	0	0	0	0	0	0	0
hill	814	ORH3B ESCR	1	2	0	0	0	0	1050	0	0	0	0	30	0	0	0	0	0	0	0	0
hill	975	ORH3B ESCR	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1024	ORH3B ESCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1327	ORH3B ESCR	3	0	0	1	0	3100	0	0	10	0	350	0	0	50	0	0	0	0	0	0
hill	1403	ORH3B ESCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1413	ORH3B ESCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1414	ORH3B ESCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1587	ORH3B ESCR	9	2	1	1	0	4680	450	200	800	0	520	190	0	0	0	110	0	0	0	0
hill	1588	ORH3B ESCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1589	ORH3B ESCR	2	0	0	0	0	220	0	0	0	0	30	0	0	0	0	0	0	0	0	0
hill	1590	ORH3B ESCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1591	ORH3B ESCR	15	1	0	0	0	14530	700	0	0	0	11070	600	0	0	0	0	0	0	0	0
hill	1592	ORH3B ESCR	2	3	0	1	0	19000	40	0	0	0	15000	15110	0	1000	0	6400	100	0	0	0
hill	1593	ORH3B ESCR	3	2	0	0	0	190	700	0	0	0	95	0	0	0	0	0	0	0	0	0
hill	1594	ORH3B ESCR	8	4	2	1	0	24870	693	2100	360	0	11760	716	350	0	0	0	0	0	30	0
hill	1595	ORH3B ESCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1596	ORH3B ESCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1597	ORH3B ESCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1608	ORH3B ESCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1614	ORH3B ESCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1615	ORH3B ESCR	0	1	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0

Cat	ID	Location	no. tows by fyr					ORH	ORH	ORH	ORH	ORH	SSO	SSO	SSO	SSO	SSO	BOE	BOE	BOE	BOE	BOE
			2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
hill	1616	ORH3B ESCR	1	0	0	0	0	30	0	0	0	0	20	0	0	0	0	0	0	0	0	0
hill	1617	ORH3B ESCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1618	ORH3B ESCR	1	1	0	0	0	420	0	0	0	0	50	0	0	0	0	0	0	0	0	0
hill	1619	ORH3B ESCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1621	ORH3B ESCR	2	1	0	0	0	2900	50	0	0	0	0	20	0	0	0	0	0	0	0	0
hill	1622	ORH3B ESCR	2	0	0	0	0	20	0	0	0	0	100	0	0	0	0	0	0	0	0	0
hill	1624	ORH3B ESCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1625	ORH3B ESCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	33	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	36	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	48	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	54	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	59	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	71	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	84	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	86	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	95	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	107	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	124	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	126	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	132	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	136	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	143	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	145	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	146	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	148	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	153	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	163	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Cat	ID	Location	no. tows by fyr					ORH	ORH	ORH	ORH	ORH	SSO	SSO	SSO	SSO	SSO	BOE	BOE	BOE	BOE	BOE
			2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
seamount	176	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	178	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	181	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	189	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	196	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	197	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	198	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	200	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	202	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	210	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	212	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	213	Kermadec bioregion (within EEZ)	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	217	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	218	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	219	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	224	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	230	Kermadec bioregion (within EEZ)	2	0	0	2	1	200	0	0	10	0	0	0	0	0	0	0	0	0	0	0
hill	237	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	242	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	243	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	244	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	252	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	257	Kermadec bioregion (within EEZ)	29	10	10	4	10	58030	2840	36505	24640	2825	0	0	0	0	0	0	0	0	0	0
hill	302	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	304	Kermadec bioregion (within EEZ)	0	1	4	4	2	0	2870	10240	6030	2200	0	0	195	68	0	0	0	0	0	0
seamount	306	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	308	Kermadec bioregion (within EEZ)	1	2	1	2	2	1400	3610	180	350	178	0	0	0	0	0	0	0	0	0	0
knoll	310	Kermadec bioregion (within EEZ)	0	1	0	0	0	0	600	0	0	0	0	0	0	0	0	0	0	0	0	0

Cat	ID	Location	no. tows by fyr					ORH	ORH	ORH	ORH	ORH	SSO	SSO	SSO	SSO	SSO	BOE	BOE	BOE	BOE	BOE
			2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
seamount	313	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	332	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	362	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	364	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	375	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	376	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	426	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	433	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	434	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	435	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	436	Kermadec bioregion (within EEZ)	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	437	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	438	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	440	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	441	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	442	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	443	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	444	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	447	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	449	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	450	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	452	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	456	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	458	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	459	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	460	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	461	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	462	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Cat	ID	Location	no. tows by fyr					ORH	ORH	ORH	ORH	ORH	SSO	SSO	SSO	SSO	SSO	BOE	BOE	BOE	BOE	BOE
			2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
knoll	463	Kermadec bioregion (within EEZ)	8	3	6	5	0	7440	2020	820	115	0	10	0	10	0	0	0	0	0	0	0
seamount	464	Kermadec bioregion (within EEZ)	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	466	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	467	Kermadec bioregion (within EEZ)	2	1	0	0	0	50	307	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	470	Kermadec bioregion (within EEZ)	3	5	0	15	38	190	11096	0	15665	21010	0	0	0	0	0	0	0	0	0	0
hill	471	Kermadec bioregion (within EEZ)	2	12	4	4	2	110	1523	1450	15320	25	0	0	0	0	0	0	0	0	0	0
hill	473	Kermadec bioregion (within EEZ)	0	0	1	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0
hill	500	Kermadec bioregion (within EEZ)	0	1	3	5	1	0	500	7200	6990	14	0	0	0	0	0	0	0	0	0	0
hill	501	Kermadec bioregion (within EEZ)	0	0	0	0	2	0	0	0	0	2800	0	0	0	0	0	0	0	0	0	0
hill	502	Kermadec bioregion (within EEZ)	0	4	7	0	1	0	940	4750	0	100	0	0	0	0	0	0	0	0	0	0
hill	504	Kermadec bioregion (within EEZ)	0	1	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	505	Kermadec bioregion (within EEZ)	1	6	8	2	2	30	2095	9320	8380	1606	0	40	2	1	0	0	0	0	0	0
hill	506	Kermadec bioregion (within EEZ)	3	9	7	5	7	3500	35805	6603	32950	12700	0	100	0	0	0	0	0	0	0	0
hill	507	Kermadec bioregion (within EEZ)	2	0	0	1	3	105	0	0	90	12000	0	0	0	0	0	0	0	0	0	0
hill	508	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	509	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	510	Kermadec bioregion (within EEZ)	8	24	12	1	6	21765	45277	420	2	3380	0	31	0	0	0	0	0	0	0	0
hill	514	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	515	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	518	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	519	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	525	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	528	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	532	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	533	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	540	Kermadec bioregion (within EEZ)	38	0	19	9	48	52600	0	11895	64890	213120	16	0	0	20	0	0	0	0	0	0
hill	541	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	545	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Cat	ID	Location	no. tows by fyr					ORH	ORH	ORH	ORH	ORH	SSO	SSO	SSO	SSO	SSO	BOE	BOE	BOE	BOE	BOE
			2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
hill	548	Kermadec bioregion (within EEZ)	4	1	3	8	16	456	200	510	1655	8079	0	0	0	0	0	0	0	0	0	4
hill	549	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	567	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	568	Kermadec bioregion (within EEZ)	0	0	0	0	1	0	0	0	0	800	0	0	0	0	7500	0	0	0	0	3600
hill	571	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	572	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	574	Kermadec bioregion (within EEZ)	0	0	1	1	1	0	0	0	100	200	0	0	0	0	0	0	0	0	0	0
hill	575	Kermadec bioregion (within EEZ)	3	3	1	1	0	1410	1730	400	10	0	0	0	0	0	0	0	0	0	0	0
hill	649	Kermadec bioregion (within EEZ)	7	20	10	8	12	3	80	1006	0	10	45888	192250	57820	40800	43534	17400	36110	42158	25730	35890
hill	650	Kermadec bioregion (within EEZ)	2	11	9	7	12	200	245	0	0	1228	13000	38306	84000	19058	48518	4100	5578	7600	1990	9894
hill	663	Kermadec bioregion (within EEZ)	0	4	0	0	15	0	0	0	0	6	0	25240	0	0	88010	0	14172	0	0	46098
hill	669	Kermadec bioregion (within EEZ)	0	0	0	1	1	0	0	0	0	15	0	0	0	5840	3800	0	0	0	1050	1300
hill	670	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	671	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	672	Kermadec bioregion (within EEZ)	5	22	18	17	8	0	0	0	0	0	6188	78013	32687	54178	15440	5332	24254	17371	13443	6674
hill	673	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	674	Kermadec bioregion (within EEZ)	0	3	3	0	0	0	200	50	0	0	0	8600	9700	0	0	0	5400	10400	0	0
hill	677	Kermadec bioregion (within EEZ)	2	9	0	5	15	80	2130	0	1300	5044	11040	70200	0	61700	132704	1200	10480	0	9794	23912
hill	680	Kermadec bioregion (within EEZ)	12	11	14	9	2	0	0	0	0	0	126316	53630	35146	69750	8180	75010	55036	67840	73180	9908
hill	681	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	682	Kermadec bioregion (within EEZ)	2	1	0	1	4	38	0	0	0	85	8208	3000	0	700	15650	420	1000	0	20	4190
hill	684	Kermadec bioregion (within EEZ)	10	51	21	46	31	4	0	2	0	0	37424	297276	79870	157158	109433	19946	97068	28775	83030	50987
hill	692	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	693	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	695	Kermadec bioregion (within EEZ)	1	0	1	0	2	0	0	0	0	0	4500	0	0	0	2465	480	0	0	0	3010
knoll	724	Kermadec bioregion (within EEZ)	0	3	3	0	1	0	0	0	0	0	0	25	6520	0	50	0	0	0	0	0
seamount	734	Kermadec bioregion (within EEZ)	1	0	0	9	1	0	0	0	0	0	1000	0	0	12980	800	400	0	0	31700	100
seamount	735	Kermadec bioregion (within EEZ)	0	1	0	2	2	0	0	0	0	0	0	3000	0	10200	260	0	20	0	650	1100

Cat	ID	Location	no. tows by fyr					ORH	ORH	ORH	ORH	ORH	SSO	SSO	SSO	SSO	SSO	BOE	BOE	BOE	BOE	BOE
			2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
hill	737	Kermadec bioregion (within EEZ)	6	11	5	1	1	1765	10345	4217	50	150	100	2610	718	200	80	30	15	0	0	0
hill	738	Kermadec bioregion (within EEZ)	11	16	15	7	5	840	4965	24795	19620	6400	15390	10020	17324	4305	4090	0	110	5	20	0
hill	739	Kermadec bioregion (within EEZ)	3	3	1	0	1	60	0	20	0	0	3345	5850	60	0	150	0	0	0	0	0
hill	740	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	741	Kermadec bioregion (within EEZ)	0	1	0	0	0	0	10	0	0	0	0	20	0	0	0	0	0	0	0	0
hill	743	Kermadec bioregion (within EEZ)	15	7	9	5	0	121830	1555	1715	7002	0	96675	2960	14680	63770	0	40	205	0	20	0
knoll	745	Kermadec bioregion (within EEZ)	1	1	0	0	0	20	7000	0	0	0	300	50000	0	0	0	5	5	0	0	0
hill	755	Kermadec bioregion (within EEZ)	26	32	8	2	0	0	0	10	0	0	78320	56575	2835	170	0	76463	49485	17700	1700	0
hill	756	Kermadec bioregion (within EEZ)	38	19	11	7	0	563	55	20	130	0	46172	4060	2175	18630	0	56773	39940	16400	21200	0
hill	757	Kermadec bioregion (within EEZ)	5	5	2	1	0	20	5	20	0	0	520	5060	600	200	0	3480	23100	2800	1000	0
hill	758	Kermadec bioregion (within EEZ)	1	0	0	0	0	0	0	0	0	0	1200	0	0	0	0	300	0	0	0	0
hill	759	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	760	Kermadec bioregion (within EEZ)	1	0	0	0	2	1700	0	0	0	80	0	0	0	0	0	0	0	0	0	0
hill	763	Kermadec bioregion (within EEZ)	1	1	3	2	2	100	0	401	3800	18200	0	0	0	0	0	0	0	0	0	12
hill	767	Kermadec bioregion (within EEZ)	0	0	0	0	1	0	0	0	0	190	0	0	0	0	0	0	0	0	0	0
hill	768	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	770	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	771	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	772	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	773	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	774	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	775	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	776	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	777	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	778	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	783	Kermadec bioregion (within EEZ)	2	1	0	1	0	0	0	0	50	0	200	60	0	50	0	10	0	0	50	0
hill	799	Kermadec bioregion (within EEZ)	0	3	0	1	1	0	160	0	80	0	0	20340	0	11880	760	0	7234	0	2550	1600
hill	800	Kermadec bioregion (within EEZ)	2	3	0	2	2	100	1000	0	200	2008	5040	14020	0	4680	3040	270	6956	0	2330	1192

Cat	ID	Location	no. tows by fyr					ORH	ORH	ORH	ORH	ORH	SSO	SSO	SSO	SSO	SSO	BOE	BOE	BOE	BOE	BOE
			2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
hill	801	Kermadec bioregion (within EEZ)	0	4	0	3	7	0	0	0	0	0	0	17380	0	29220	40598	0	2174	0	3500	6940
hill	802	Kermadec bioregion (within EEZ)	0	2	0	3	3	0	0	0	0	14	0	13000	0	20680	27320	0	1500	0	10260	6308
hill	803	Kermadec bioregion (within EEZ)	0	0	0	1	0	0	0	0	40	0	0	0	0	2120	0	0	0	0	330	0
hill	804	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	817	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	818	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	819	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	820	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	821	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	822	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	823	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	832	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	833	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	834	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	835	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	836	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	837	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	839	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	840	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	842	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	844	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	852	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	855	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	857	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	858	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	859	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	860	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	866	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Cat	ID	Location	no. tows by fyr					ORH	ORH	ORH	ORH	ORH	SSO	SSO	SSO	SSO	SSO	BOE	BOE	BOE	BOE	BOE
			2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
hill	868	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	869	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	870	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	875	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	876	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	891	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	892	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	894	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	895	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	897	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	900	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	901	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	902	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	908	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	909	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	911	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	912	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	913	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	914	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	917	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	918	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	919	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	921	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	930	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	979	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	980	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	981	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	982	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Cat	ID	Location	no. tows by fyr					ORH	ORH	ORH	ORH	ORH	SSO	SSO	SSO	SSO	SSO	BOE	BOE	BOE	BOE	BOE
			2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
hill	983	Kermadec bioregion (within EEZ)	0	1	0	0	0	0	0	0	0	0	0	5000	0	0	0	0	0	0	0	0
hill	984	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	985	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	986	Kermadec bioregion (within EEZ)	0	0	0	1	0	0	0	0	3500	0	0	0	0	0	0	0	0	0	0	0
hill	987	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1002	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1003	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1004	Kermadec bioregion (within EEZ)	0	2	1	1	0	0	9200	2000	400	0	0	2350	50	100	0	0	0	10	0	0
hill	1007	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1008	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1009	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1010	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1011	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1012	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1014	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1020	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1021	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1022	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1050	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1051	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1052	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1058	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1070	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1074	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1081	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1089	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1107	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1109	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Cat	ID	Location	no. tows by fyr					ORH	ORH	ORH	ORH	ORH	SSO	SSO	SSO	SSO	SSO	BOE	BOE	BOE	BOE	BOE
			2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
hill	1117	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1123	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1139	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1143	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1146	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1150	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1151	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1152	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1162	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1166	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1168	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1178	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1179	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1180	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1181	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1182	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1185	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1186	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1221	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1224	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1225	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1239	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1241	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1247	Kermadec bioregion (within EEZ)	0	2	0	0	1	0	120	0	0	0	0	65	0	0	0	0	0	0	0	0
hill	1305	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1333	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1334	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1336	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Cat	ID	Location	no. tows by fyr					ORH	ORH	ORH	ORH	ORH	SSO	SSO	SSO	SSO	SSO	BOE	BOE	BOE	BOE	BOE
			2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
knoll	1337	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1342	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1389	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1390	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1399	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1400	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1401	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1402	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1438	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1446	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1453	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1458	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1459	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1460	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1461	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1462	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1463	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1464	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1465	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1466	Kermadec bioregion (within EEZ)	0	0	2	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1470	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1472	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1473	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1474	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1476	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1477	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1538	Kermadec bioregion (within EEZ)	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1539	Kermadec bioregion (within EEZ)	2	2	0	0	0	0	0	0	0	0	100	4000	0	0	0	5	0	0	0	0

Cat	ID	Location	no. tows by fyr					ORH	ORH	ORH	ORH	ORH	SSO	SSO	SSO	SSO	SSO	BOE	BOE	BOE	BOE	BOE
			2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
hill	1540	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1541	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1542	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1543	Kermadec bioregion (within EEZ)	7	5	2	1	3	0	0	0	0	0	41050	8060	450	0	106	200	0	0	0	0
hill	1544	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1545	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1546	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1547	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1548	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1549	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1550	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1555	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1556	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1557	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1564	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1565	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1567	Kermadec bioregion (within EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	2	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	3	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	4	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	6	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	15	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	18	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	20	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	22	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	34	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	43	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	45	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Cat	ID	Location	no. tows by fyr					ORH	ORH	ORH	ORH	ORH	SSO	SSO	SSO	SSO	SSO	BOE	BOE	BOE	BOE	BOE
			2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
knoll	52	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	67	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	88	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	90	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	91	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	92	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	97	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	98	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	101	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	104	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	106	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	108	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	110	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	119	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	121	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	127	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	130	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	131	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	138	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	150	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	173	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	199	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	216	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	239	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	299	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	418	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	419	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	420	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Cat	ID	Location	no. tows by fyr					ORH	ORH	ORH	ORH	ORH	SSO	SSO	SSO	SSO	SSO	BOE	BOE	BOE	BOE	BOE
			2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
seamount	474	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	482	Kermadec bioregion (outside EEZ)	0	2	3	1	2	0	25	290	25	10	0	0	0	0	0	0	0	0	0	0
seamount	524	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	550	Kermadec bioregion (outside EEZ)	9	25	9	1	3	2742	25391	4236	1000	750	0	0	0	0	0	0	0	0	0	0
seamount	747	Kermadec bioregion (outside EEZ)	0	11	6	3	10	0	14351	1896	815	11350	0	0	9	0	0	0	0	0	0	0
seamount	748	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	749	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	751	Kermadec bioregion (outside EEZ)	0	1	3	4	4	0	10	1130	290	100	0	0	8	0	0	0	0	0	0	0
seamount	752	Kermadec bioregion (outside EEZ)	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	753	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	922	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	925	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	926	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	927	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	928	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	929	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	931	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	932	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	933	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	934	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	935	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	936	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	937	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	938	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	939	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	940	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	941	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	942	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Cat	ID	Location	no. tows by fyr					ORH	ORH	ORH	ORH	ORH	SSO	SSO	SSO	SSO	SSO	BOE	BOE	BOE	BOE	BOE
			2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
hill	943	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	944	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	945	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	946	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	947	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	948	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	950	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	951	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1060	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1063	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1064	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1090	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1091	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1092	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1093	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1096	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1097	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1098	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1242	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1243	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1246	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1248	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1249	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1298	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1310	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1344	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1364	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1365	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Cat	ID	Location	no. tows by fyr					ORH	ORH	ORH	ORH	ORH	SSO	SSO	SSO	SSO	SSO	BOE	BOE	BOE	BOE	BOE
			2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
hill	1366	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1367	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1369	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1370	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1416	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1417	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1418	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1419	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1420	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1421	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1423	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1424	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1427	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1431	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1432	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1455	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1457	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1467	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1479	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1480	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1481	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1482	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1483	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1484	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1485	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1487	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1489	Kermadec bioregion (outside EEZ)	0	4	0	4	2	0	695	0	13	5	0	8	0	0	0	0	0	0	0	0
seamount	1490	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Cat	ID	Location	no. tows by fyr					ORH	ORH	ORH	ORH	ORH	SSO	SSO	SSO	SSO	SSO	BOE	BOE	BOE	BOE	BOE
			2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
seamount	1491	Kermadec bioregion (outside EEZ)	0	0	0	0	1	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0
seamount	1492	Kermadec bioregion (outside EEZ)	0	0	0	7	0	0	0	0	1419	0	0	0	0	265	0	0	0	0	33	0
seamount	1495	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1496	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1497	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1498	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1499	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1501	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1502	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1507	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1518	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seamount	1523	Kermadec bioregion (outside EEZ)	0	1	3	10	6	0	50	2	50730	4700	0	0	30	25	0	0	30	2000	280	340
seamount	1525	Kermadec bioregion (outside EEZ)	0	5	9	1	24	0	1282	2875	200	163545	0	26	1	0	0	0	589	25	0	14385
seamount	1526	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1528	Kermadec bioregion (outside EEZ)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1535	Kermadec bioregion (outside EEZ)	8	6	3	2	1	3470	3200	5425	2520	200	0	0	0	0	0	0	0	0	0	0
hill	1536	Kermadec bioregion (outside EEZ)	27	4	8	14	2	18314	16500	21980	9741	35	0	0	0	0	0	0	0	0	0	0
knoll	387	EEZ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	391	EEZ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	401	EEZ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	503	EEZ	0	0	4	0	1	0	0	7300	0	3	0	0	0	0	0	0	0	0	0	0
hill	542	EEZ	0	0	3	2	2	0	0	95	4200	125	0	0	0	0	0	0	0	0	0	0
hill	569	EEZ	0	0	0	0	2	0	0	0	0	20000	0	0	0	0	6500	0	0	0	0	8000
hill	675	EEZ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	710	EEZ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	711	EEZ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	725	EEZ	3	6	1	6	6	0	15	0	1050	10	3950	21500	2000	17600	18900	550	11060	4000	7650	12000
knoll	726	EEZ	3	5	7	2	3	20	50	0	0	0	18075	43030	12430	10150	1500	1090	1550	2030	200	10

Cat	ID	Location	no. tows by fyr					ORH	ORH	ORH	ORH	ORH	SSO	SSO	SSO	SSO	SSO	BOE	BOE	BOE	BOE	BOE
			2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
hill	742	EEZ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	978	EEZ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1001	EEZ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1005	EEZ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1006	EEZ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knoll	1229	EEZ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hill	1332	EEZ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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