

Peruvian Humboldt current ecosystem zooplankton biovolume data set 1963-2006

Cruise Descriptions:

Data were collected aboard many ships including Jose Olaya, SMP-1, SMP-2, Humboldt in the Humboldt Current Ecosystem off the Peruvian coast 4-18° S. latitude, 72-80° W. longitude.

Included below is a list of all cruises having data. Identification gives information (where available and in Spanish) of the type of cruise. EU or Eureka cruises were acoustic surveys conducted by a group of chartered commercial vessels simultaneously running parallel transects. Volume samples denote the number of volume samples taken while number of samples denotes the number of sample stations.

cruise	month start	month end	number samples	identification	volume samples
6301	1	1	9		21
6310	10	10	2		87
6501-02	1	2-Jan	2		
6503	3	3	63		144
6504	4	4	48		306
6507-09	7	9	189		179
6510-12	10	12	96		198
6601	1	1	26		
6602	2	2	11		93
6605	5	5	38		125
6608-09	8	9	182		
6611-12	11	12	103		129
6702	2	2	125		154
6705	5	5	63		86
6708	8	8	169		200
6711-12	11	12	125		141
6802	2	2	98		120
6805	5	5	63		
6808-09	8	9	94		102
6811-12	11	12	61		109
6902	2	2	2	EU XI	
6907	7	7	1	EU XIII	
6901-03	1	3	31		46
6905-07	5	7	48		68
6908-09	8	9	138		125
6910-11	10	11	32		
7005-06	5	6	33		30
7009-10	9	10	49		59
7011-12	11	12	47		169
7104-05	4	5	49		52
7108-09	8	9	72		52
7110-11	10	11	92		87
7202	2	2	95		102
7204	4	4	21		24
7205	5	5	7		

7206	6	6	11		
7204	4	4	9	EU XX	
7207	7	7	43		99
7207	7	7	74	EU XII	
7208	8	8	40		
7208	8	8	196	EU XXIII	
7209-10	9	10	89		45
7209	9	9	276	EU XXIV	
7211	11	11	7		
7210	10	10	389	EU XXV	
7212	12	12	122		109
7301.1	1	1	15		
7301	1	1	273	EU XXVI	
7302-03	2	3	114		85
7304	4	4	28		
7305-06	5	6	72		63
7307	7	7	59		85
7308-09	8	9	153		
7309	9	9	313	EU XVII	
7311	11	11	200	EU XVIII	
7402	2	2	176		
7403	3	3	29		
7404	4	4	144		
7404-05	4	5	66		73
7405.1	5	5	88		
7405	5	5	297	EU XXIX	
7406	6	6	55		
7407-08	7	8	9		
7408	8	8	324	EU XXX	
7409	9	9	315	EU XXXI	
7410	10	10	1		
7411	11	11	161		
7502	2	2	267	EU XXXII	
7502-03	2	3	138	el nino	
7504	4	4	35		
7508	8	8	217	EU XXXIII	
7509	9	9	192	EU XXXIV	
7511	11	11	89		40
7601	1	1	242	EU XXXV	
760304	3	4	22	Alpha Helix	
7604	4	4	50		28
7605	5	5	46		50
7608	8	8	256	EU XXXVI	
7606-07	6	7	94		136
7608-10	8	10	323		
7611	11	11	128		176
7703	3	3	210	EU XXXVII	
7704	4	4	56		
7704-05	4	5	322		87
7705	5	5	36	Cayuse Lech 4	
7707	7	7	255	EU XXXVIII	
7708	8	8	88		85

7710	10	10	376	EU XXXIX	
7711	11	11	266	baffin	
7711-12	11	12	88		
7802-03	2	3	90		229
7804	4	4	88		123
7805	5	5	83		85
7807	7	7	190	EU XL	
7810-11	10	11	86		93
7812	12	12	183		
7901	1	1	25		147
7902	2	2	89	EU XLII	
7905	5	5	2		
7907-08	7	8	26		
7909	9	9	195	EU XLII	
7910	10	10	57		
7911-12	11	12	67		
7912	12	12	14	siedlecki	
8001	1	1	56		
8002	2	2	25		
8002	2	2	37	EU XLIII	
8003	3	3	26	Scileski	
8003-04	3	4	20		
8004-05	4	5	24		
8007-08	7	8	1		
8008-09	8	9	103		
8009	9	9	168	EU XLIV	
8012	12	12	83		
8102	2	2	75		103
8104	4	4	99	EU XLV	
8105-06	5	6	66		
8107-08	7	8	43		
810809	8	9	1122		
8110	10	10	159	EU XLVI	
8202	2	2	271	EU XLVII	
8209	9	9	894	EU XLVIII	
8211	11	11	4	Gaviota	
8212	12	12	74		
8301	1	1	112		152
8303-04	3	4	140		180
8308	8	8	120		
8311-12	11	12	73		74
8404	4	4	20		34
8406-08	6	8	40		94
8408-09	8	9	107		76
8412	12	12	110		
8501	1	1	1067	cal-vet	
8503-04	3	4	83		120
8505	5	5	18		
8507-08	7	8	58		73
8508-09	8	9	736		
8603	3	3	1		
8604-05	4	5	106		109

8608	8	8	42	Bahia Indep.	
8609	9	9	7	Ancon	
8611	11	11	10	Bahia Indep.	
861012	10	12	110		117
861112	11	12	48		
8612	12	12	12	Ancon	
8701-02	1	2	50		79
8702-03	2	3	49	Bahia Indep.	
8704-06	4	6	13		
8707	7	7	9		
8707-08	7	9	1		
8708-09	8	9	125		206
8711-12	11	12	16		
8712	12	12	8	exp. Langostino	
8801	1	1	2	Ancon	
8802	2	2	36		64
8802	2	2	53	Peru Antar I	
8802	2	2	39	Bahia Indep.	
8804	4	4	69	Bahia Indep.	
8804-05	4	5	39	Ancon	
8805-06	5	6	59	SNP1	61
8902	2	2	30	Peru Antar II	
8905	5	5	1		
8907-08	7	8	154		135
8909-10	9	10	32		40
8909-10	9	10	56	Nansen	
8910-11	10	11	29	Nansen	
8910-11	10	11	11	Eval. Concha	
8911-12	11	12	98		52
8912	12	12	12	Samanco	
9001	1	1	164	Nansen	
9001-02	1	2	92	Nansen	
9002-03	2	3	31		95
9002-04	2	4	39	Nansen	
9003-04	3	4	65		
9004	4	4	124	Nansen	
9005-06	5	6	57		56
9007-08			101	Nansen	
90078-09	7	9	97	Nansen	
9007-09	7	9	96	Nansen	
9008	8	8	658	Desovante	
9010	10	10	276	Nansen	
9011-12	11	12	94		231
9012	12	12	5	EU XLIX-A	
9012	12	12	33	EU XLIX	
9101	1	1	56		
9101-02	1	2	53	ANTAR III	
9103	3	3	109	Pelagicos	112
9106	6	6	57		132
9107	7	7	70		
9108	8	8	15		

9109	9	9	105	EU L	
9110	10	10	21		
91?			6		
9201-02	1	2	111		109
9203	3	3	32	Pre-recluta	
9309	9	9	7	SPCC-IMARPE	
9312	12	12	17	BDP. CARRILLO	
9401-03	1	3	182	pelagicos	573 (many NA)
9404	4	4	5		
9405	5	5	28	BDP MELO	
9408-09	8	9	1228	cal-vet?	
9406	6	6	10	JAIVA	
9410	10	10	31	JAIVA	
9410	10	10	28	Sechin	
9411-12	11	12	47	Mopfen	
9412	12	12	3	Carpayo	
1995?			8		
9501-02	1	2	41	Mopfen	101
9502-03	2	3	168		249
9504-05	4	5	120		
9505-06	5	6	46		
9506	6	6	34	Mopfen	
9506	6	6	9	Carpayo	
9507	7	7	8	Carpayo	
9507-08	7	8	87	Paita-San Jose	
9508-09	8	9	836	Calvet?	
9508	8	8	12	Mopfen	
9510	10	10	41	Mopfen	
9603			32		
9602-04	2	4	184	pelagicos	
9603	3	3	92	Mopfen	249
9603-04			48	fauna accoompanante	
9605-06	5	6	230		
9607-08	7	8	43	demersales	
9608-09	8	9	220		
9609-10	9	10	44		
9610	10	10	34	New Kae Hae #41	
9610-11	10	11	56		110
9611-12	11	12	332		
9702-04	2	4	70		143
9703	3	3	33	Mopfen	
9704	4	4	19	Mopfen	
9704	4	4	46	pelagicos	
9704	4	4	12	DBBM	
9704	4	4	28	Calamas	
9705-06	5	6	54		26
9706	6	6	12	Samanco-Chimbote	
9706	6	6	13	Reclotas	
9706	6	6	146	Plancton	
9706-07	6	7	137	Oceanografico	
9707	7	7	54	EU LII	
9707	7	7	1	Evaluacion concho de Abanico	

9708	8	8	10	Choro-Huacho	
9708	8	8	5	siguiente calamar gigante	
9707-08	7	8	8	Oceanografico	
9708	8	8	85	EU SUR I	
9708	8	8	36	Huamanga	
9709	9	9	30	Huamanga	
9709-10	9	10	137	Pelagicos	155
9711	11	11	35	Reclotas	
9710-12	10	12	64	Kairo Maru Etapa 3	
9711-12	11	12	45	Oceanografico	
9801	1	1	6	Evaluacion contaminacion	
9801-02	1	2	75	AntaR IX	
980203	2	3	49	Mopfen	
9803-05	3	5	60	pelagicos	245
9804	4	4	24	Em P Cargas camaron	
9805	5	5	30	Regional	
9805-06	5	6	110		90
9806-07	6	7	9	demersales	
9808	8	8	69	Mopfen	
9807	7	7	28	Evaluacion concha de Abanico	
9808-09	8	9	364	pelagicos	367
9809	8	9	13	prospeccion pelagicos	
9810	10	10	17	prospeccion pesquera	
9810	10	10	55		
9811-12	11	12	93	pelagicos	92
9901	1	1	16	demersales	
9902-03	2	3	23	Antar X	
990203	2	3	162		160
9905	5	5	107	Oceanografico	
9906	6	6	16	Merluza	
9906	6	6	22	Reclutas	
9907	7	7	66		
9908	8	8	16	Huacho-Carquin	
9908-09	8	9	258		14
9911	11	11	16	EU LIII	
9911-12	11	12	104		116
3	3	3	15	Antar X!	
0001-02	1	2	1		525
0004-05	4	5	41	demersales	
0006-07	6	7	195		660
7	7	7	79	Calamari	
0007-08	7	8	40	Pota	
0008-09	8	9	419	MPH	
0008-09	8	9	231	Desovante	
10	10	10	35	Shinko Maru	
0010-11	10	11	137	pelagicos	175
0101-02	1	2	32		
0102-04	2	4	302		445
105	5	5	42	Oceanografico	
105	5	5	5	Calidad ambiental	
0105-06	5	6	20		
0105-06	5	5	57	Merluza demersales	

106	6	6	46	Calamar gigante	
106	6	6	36	Lobos San Jose	
107	7	7	209	pelagicos	212
0108-09	8	9	680		
109	9	9	23	regional	
0110-11	10	11	192	pelagicos	184
110	10	10	6	Mopfen	
111	11	11	8	Mopfen Chimbote	
112	12	12	5	Mopfen Chimbote	
112	12	12	2	Mopfen Paita	
0201-02	1	2	43	Antar XIII	
202	2	2	95	EU LVI	
0202-03	2	3	152		155
203	3	3	21	Mopfen	
204	4	4	118	EU LVII	
205	5	5	90	demersales	
205	5	5	12	Estacion synoptics del recurso anchoveta	
208	8	8	824		
208	8	8	363	EU LVIII	
209	9	9	11	Mopfen	
210	10	10	196	EU LVIX	
0210-11	10	11	202		95
212	12	12	3	Boyo biologica I	
301	1	1	47	Antar XIV	
0301-02	1	2	128	demersales	
0302-03	2	3	37	Boyo biologica II	
0302-03	2	3	147	pelagicos	147
303	3	3	167	EU LX	
0305-06	5	6	83	demersales	
0308-09	8	9	1155	biomasa	
0310-11-1210		12	172		
0310-12	10	12	47	pelagicos	201
401	1	1	199		
0402-03	2	3	282		281
406	6	6	209	demersales	
0408-09	8	9	957		
0409-11	9	11	64	Oceanografico	
410	10	10	51	sobrevivencia larva	
411	11	11	68	Oceanografico	
411	11	11	99	cardumen	
0411-12	11	12	115	Pelagicos	92
501	1	1	70	demersales	
0502-03	2	3	118	demersales	
0502-03	2	3	182	Pelagicos	253
0502-04	2	4	75	Pelagicos	
504	4	4	20	Mopfen	
0505-06	5	6	170	demersales	
0508-09	8	9	975	MPH	
0511-12	11	12	104	Pelagicos	87
0601-02	1	2	137	demersales	
602	2	2	17	Pelagicos	
60203	2	3	92	Pelagicos	

0602-04	2	4	111	Pelagicos
0603-04	3	4	60	Sedapal
60809	8	9	809	MPH
608	8	8	163	crios- callao
609	9	9	49	Sedapal
0611-12	11	12	264	pelagicos
701	1	1	90	Antar XVII
701	1	1	33	ELBA-Sechura