

APPENDIX B.2

Frequencies of sources for NEFOP variables processed to fill in missing values

Sources for Value of BotTemp Variable, Gillnet Observer Data, 1989-2006

Source of BotTemp value	1989-94		1995		1996		1997		1998		1999		2000	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	2025	9.32	235	3.74	271	4.99	143	2.49	790	12.76	924	17.28	802	13.78
Median for the trip	1283	5.91	366	5.83	351	6.47	449	7.81	303	4.89	180	3.37	269	4.62
Median for the vessel, gear, year, and month	449	2.07	114	1.81	90	1.66	95	1.65	148	2.39	87	1.63	110	1.89
MARMAP	17965	82.70	5566	88.62	4717	86.89	5060	88.05	4950	79.95	4155	77.72	4641	79.71

	2001		2002		2003		2004		2005		2006		All	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	566	12.11	294	8.58	527	13.25	881	11.97	744	10.62	862	17.68	9064	10.32
Median for the trip	238	5.09	107	3.12	180	4.52	375	5.09	330	4.71	246	5.05	4677	5.32
Median for the vessel, gear, year, and month	74	1.58	62	1.81	59	1.48	91	1.24	114	1.63	125	2.56	1618	1.84
MARMAP	3794	81.21	2964	86.49	3212	80.74	6016	81.71	5819	83.05	3642	74.71	72501	82.52

Variability of BotTemp Values Used to Fill Missing Values

Distribution of cv for BotTemp sources

CV=sd/mean for nonmissing values	Min	Q1	Mean	Q3	Max
Median for the trip	0.00	0.00	0.03	0.03	0.66
Median for the vessel, gear, year, and month	0.00	0.00	0.03	0.04	0.23

Sources for Value of btm_slp Variable, Gillnet Observer Data, 1989-2006

Source of btm_slp value	1989-94		1995		1996		1997		1998		1999		2000	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	1191	5.48	2	0.03	0	0	4	0.07	210	3.39	74	1.38	36	0.62
Median for the trip	137	0.63	61	0.97	33	0.61	41	0.71	66	1.07	32	0.60	48	0.82
Median for the vessel, gear, year, and month	62	0.29	45	0.72	0	0	21	0.37	33	0.53	27	0.51	38	0.65
Median for the vessel, gear, and year	159	0.73	26	0.41	0	0	14	0.24	43	0.69	94	1.76	46	0.79
Median for the vessel and year	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GIS	20173	92.87	6147	97.87	5396	99.39	5667	98.61	5839	94.31	5119	95.75	5654	97.11

	2001		2002		2003		2004		2005		2006		All	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	151	3.23	157	4.58	112	2.82	36	0.49	53	0.76	129	2.65	2155	2.45
Median for the trip	46	0.98	88	2.57	27	0.68	27	0.37	31	0.44	56	1.15	693	0.79
Median for the vessel, gear, year, and month	22	0.47	54	1.58	25	0.63	15	0.20	12	0.17	17	0.35	371	0.42
Median for the vessel, gear, and year	44	0.94	58	1.69	36	0.90	42	0.57	14	0.20	100	2.05	676	0.77
Median for the vessel and year	0	0	0	0	0	0	0	0	0	0	6	0.12	6	0.01
GIS	4409	94.37	3070	89.58	3778	94.97	7243	98.37	6897	98.43	4567	93.68	83959	95.56

Variability of btm_slp Values Used to Fill Missing Values

Distribution of cv for btm_slp sources

CV=sd/mean for nonmissing values	Min	Q1	Mean	Q3	Max
Median for the trip	0.00	0.00	0.19	0.32	1.17
Median for the vessel, gear, year, and month	0.00	0.05	0.24	0.39	0.84
Median for the vessel, gear, and year	0.00	0.10	0.40	0.63	1.48
Median for the vessel and year	0.00	0.00	0.00	0.00	0.00

Sources for Value of d_b50 Variable, Gillnet Observer Data, 1989-2006

Source of d_b50 value	1989-94		1995		1996		1997		1998		1999		2000	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	1175	5.41	0	0	0	0	0	0	210	3.39	68	1.27	17	0.29
Median for the trip	4	0.02	0	0	0	0	1	0.02	0	0	0	0	0	0
Median for the vessel, gear, year, and month	55	0.25	21	0.33	0	0	0	0	15	0.24	18	0.34	6	0.10
Median for the vessel, gear, and year	99	0.46	0	0	0	0	9	0.16	35	0.57	90	1.68	22	0.38
Median for the vessel and year	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GIS	20389	93.86	6260	99.67	5429	100.0	5737	99.83	5931	95.80	5170	96.71	5777	99.23

	2001		2002		2003		2004		2005		2006		All	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	133	2.85	157	4.58	108	2.71	24	0.33	43	0.61	93	1.91	2028	2.31
Median for the trip	0	0	0	0	0	0	0	0	5	0.07	0	0	10	0.01
Median for the vessel, gear, year, and month	12	0.26	30	0.88	12	0.30	13	0.18	11	0.16	17	0.35	210	0.24
Median for the vessel, gear, and year	44	0.94	58	1.69	36	0.90	42	0.57	11	0.16	64	1.31	510	0.58
Median for the vessel and year	0	0	0	0	4	0.10	0	0	6	0.09	6	0.12	16	0.02
GIS	4483	95.95	3182	92.85	3818	95.98	7284	98.93	6931	98.92	4695	96.31	85086	96.84

Variability of d_b50 Values Used to Fill Missing Values

Distribution of cv for d_b50 sources

CV=sd/mean for nonmissing values	Min	Q1	Mean	Q3	Max
Median for the trip	0.01	0.01	0.13	0.21	0.58
Median for the vessel, gear, year, and month	0.00	0.01	0.13	0.16	0.95
Median for the vessel, gear, and year	0.00	0.01	0.13	0.18	0.77
Median for the vessel and year	0.00	0.00	0.01	0.02	0.02

Sources for Value of d_b100 Variable, Gillnet Observer Data, 1989-2006

Source of d_b100 value	1989-94		1995		1996		1997		1998		1999		2000	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	1175	5.41	0	0	0	0	0	0	210	3.39	68	1.27	17	0.29
Median for the trip	4	0.02	0	0	0	0	1	0.02	0	0	0	0	0	0
Median for the vessel, gear, year, and month	55	0.25	21	0.33	0	0	0	0	15	0.24	18	0.34	6	0.10
Median for the vessel, gear, and year	99	0.46	0	0	0	0	9	0.16	35	0.57	90	1.68	22	0.38
Median for the vessel and year	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GIS	20389	93.86	6260	99.67	5429	100.0	5737	99.83	5931	95.80	5170	96.71	5777	99.23

	2001		2002		2003		2004		2005		2006		All	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	133	2.85	157	4.58	108	2.71	24	0.33	39	0.56	93	1.91	2024	2.30
Median for the trip	0	0	0	0	0	0	0	0	5	0.07	0	0	10	0.01
Median for the vessel, gear, year, and month	12	0.26	30	0.88	12	0.30	13	0.18	11	0.16	17	0.35	210	0.24
Median for the vessel, gear, and year	44	0.94	58	1.69	36	0.90	42	0.57	11	0.16	64	1.31	510	0.58
Median for the vessel and year	0	0	0	0	4	0.10	0	0	10	0.14	6	0.12	20	0.02
GIS	4483	95.95	3182	92.85	3818	95.98	7284	98.93	6931	98.92	4695	96.31	85086	96.84

Variability of d_b100 Values Used to Fill Missing Values

Distribution of cv for d_b100 sources

CV=sd/mean for nonmissing values	Min	Q1	Mean	Q3	Max
Median for the trip	0.00	0.00	0.09	0.16	0.37
Median for the vessel, gear, year, and month	0.00	0.01	0.09	0.08	1.75
Median for the vessel, gear, and year	0.00	0.01	0.10	0.08	0.88
Median for the vessel and year	0.00	0.00	0.02	0.02	0.08

Sources for Value of d_b200 Variable, Gillnet Observer Data, 1989-2006

Source of d_b200 value	1989-94		1995		1996		1997		1998		1999		2000	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	1175	5.41	0	0	0	0	0	0	210	3.39	68	1.27	17	0.29
Median for the trip	4	0.02	0	0	0	0	1	0.02	0	0	0	0	0	0
Median for the vessel, gear, year, and month	55	0.25	21	0.33	0	0	0	0	15	0.24	18	0.34	6	0.10
Median for the vessel, gear, and year	99	0.46	0	0	0	0	9	0.16	35	0.57	90	1.68	22	0.38
Median for the vessel and year	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GIS	20389	93.86	6260	99.67	5429	100.0	5737	99.83	5931	95.80	5170	96.71	5777	99.23

	2001		2002		2003		2004		2005		2006		All	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	133	2.85	157	4.58	108	2.71	24	0.33	39	0.56	90	1.85	2021	2.30
Median for the trip	0	0	0	0	0	0	0	0	5	0.07	0	0	10	0.01
Median for the vessel, gear, year, and month	12	0.26	30	0.88	12	0.30	13	0.18	11	0.16	17	0.35	210	0.24
Median for the vessel, gear, and year	44	0.94	58	1.69	36	0.90	42	0.57	11	0.16	64	1.31	510	0.58
Median for the vessel and year	0	0	0	0	4	0.10	0	0	10	0.14	6	0.12	20	0.02
GIS	4483	95.95	3182	92.85	3818	95.98	7284	98.93	6931	98.92	4698	96.37	85089	96.85

Variability of d_b200 Values Used to Fill Missing Values

Distribution of cv for d_b200 sources

CV=sd/mean for nonmissing values	Min	Q1	Mean	Q3	Max
Median for the trip	0.01	0.01	0.10	0.17	0.19
Median for the vessel, gear, year, and month	0.00	0.01	0.03	0.05	0.25
Median for the vessel, gear, and year	0.00	0.01	0.09	0.09	1.84
Median for the vessel and year	0.01	0.01	0.02	0.02	0.07

Sources for Value of d_b500 Variable, Gillnet Observer Data, 1989-2006

Source of d_b500 value	1989-94		1995		1996		1997		1998		1999		2000	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	1175	5.41	0	0	0	0	0	0	210	3.39	68	1.27	17	0.29
Median for the trip	4	0.02	0	0	0	0	1	0.02	0	0	0	0	0	0
Median for the vessel, gear, year, and month	55	0.25	21	0.33	0	0	0	0	15	0.24	18	0.34	6	0.10
Median for the vessel, gear, and year	99	0.46	0	0	0	0	9	0.16	35	0.57	90	1.68	22	0.38
Median for the vessel and year	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GIS	20389	93.86	6260	99.67	5429	100.0	5737	99.83	5931	95.80	5170	96.71	5777	99.23

	2001		2002		2003		2004		2005		2006		All	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	133	2.85	157	4.58	108	2.71	24	0.33	39	0.56	90	1.85	2021	2.30
Median for the trip	0	0	0	0	0	0	0	0	5	0.07	0	0	10	0.01
Median for the vessel, gear, year, and month	12	0.26	30	0.88	12	0.30	13	0.18	11	0.16	17	0.35	210	0.24
Median for the vessel, gear, and year	44	0.94	58	1.69	36	0.90	42	0.57	11	0.16	64	1.31	510	0.58
Median for the vessel and year	0	0	0	0	4	0.10	0	0	10	0.14	6	0.12	20	0.02
GIS	4483	95.95	3182	92.85	3818	95.98	7284	98.93	6931	98.92	4698	96.37	85089	96.85

Variability of d_b500 Values Used to Fill Missing Values

Distribution of cv for d_b500 sources

CV=sd/mean for nonmissing values	Min	Q1	Mean	Q3	Max
Median for the trip	0.00	0.00	0.03	0.03	0.15
Median for the vessel, gear, year, and month	0.00	0.01	0.02	0.02	0.10
Median for the vessel, gear, and year	0.00	0.00	0.04	0.04	0.93
Median for the vessel and year	0.01	0.01	0.01	0.02	0.02

Sources for Value of d_coast Variable, Gillnet Observer Data, 1989-2006

Source of d_coast value	1989-94		1995		1996		1997		1998		1999		2000	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	1175	5.41	0	0	0	0	0	0	210	3.39	68	1.27	17	0.29
Median for the trip	4	0.02	0	0	0	0	1	0.02	0	0	0	0	0	0
Median for the vessel, gear, year, and month	55	0.25	21	0.33	0	0	0	0	15	0.24	18	0.34	6	0.10
Median for the vessel, gear, and year	99	0.46	0	0	0	0	9	0.16	35	0.57	90	1.68	22	0.38
Median for the vessel and year	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GIS	20389	93.86	6260	99.67	5429	100.0	5737	99.83	5931	95.80	5170	96.71	5777	99.23

	2001		2002		2003		2004		2005		2006		All	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	133	2.85	157	4.58	112	2.82	24	0.33	46	0.66	90	1.85	2032	2.31
Median for the trip	0	0	0	0	0	0	0	0	5	0.07	0	0	10	0.01
Median for the vessel, gear, year, and month	12	0.26	30	0.88	12	0.30	13	0.18	11	0.16	17	0.35	210	0.24
Median for the vessel, gear, and year	44	0.94	58	1.69	36	0.90	42	0.57	11	0.16	64	1.31	510	0.58
Median for the vessel and year	0	0	0	0	0	0	0	0	3	0.04	6	0.12	9	0.01
GIS	4483	95.95	3182	92.85	3818	95.98	7284	98.93	6931	98.92	4698	96.37	85089	96.85

Variability of d_coast Values Used to Fill Missing Values

Distribution of cv for d_coast sources

CV=sd/mean for nonmissing values	Min	Q1	Mean	Q3	Max
Median for the trip	0.00	0.01	0.14	0.12	0.53
Median for the vessel, gear, year, and month	0.00	0.10	0.34	0.45	2.00
Median for the vessel, gear, and year	0.00	0.14	0.34	0.45	1.18
Median for the vessel and year	0.08	0.08	0.08	0.08	0.08

Sources for Value of depth Variable, Gillnet Observer Data, 1989-2006

Source of depth value	1989-94		1995		1996		1997		1998		1999		2000	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	0	0	0	0	0	0	0	0	29	0.47	3	0.06	0	0
ETOPOv2	2	0.01	0	0	0	0	0	0	0	0	1	0.02	14	0.24
Coastal Relief	315	1.45	26	0.41	45	0.83	114	1.98	116	1.87	133	2.49	136	2.34
SRTM30 v.1	7	0.03	0	0	0	0	0	0	2	0.03	4	0.07	21	0.36
Manual correction	0	0	0	0	0	0	1	0.02	1	0.02	0	0	0	0
Median for the trip	1	0.00	0	0	0	0	0	0	4	0.06	0	0	22	0.38
Median for the vessel, gear, year, and month	0	0	0	0	0	0	0	0	10	0.16	4	0.07	0	0
Median for the vessel, gear, and year	0	0	0	0	0	0	9	0.16	2	0.03	0	0	1	0.02
Median for the vessel and year	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Observer	21397	98.50	6255	99.59	5384	99.17	5623	97.84	6027	97.35	5201	97.29	5628	96.67

	2001		2002		2003		2004		2005		2006		All	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	0	0	0	0	6	0.15	0	0	0	0	3	0.06	41	0.05
ETOPO2	0	0	0	0	0	0	1	0.01	0	0	0	0	18	0.02
Coastal Relief	17	0.36	14	0.41	87	2.19	76	1.03	144	2.06	56	1.15	1279	1.46
SRTM30 v.1	0	0	0	0	0	0	0	0	0	0	0	0	34	0.04
Manual correction	0	0	0	0	1	0.03	4	0.05	1	0.01	0	0	8	0.01
Median for the trip	0	0	0	0	0	0	0	0	0	0	0	0	27	0.03
Median for the vessel, gear, year, and month	0	0	0	0	1	0.03	0	0	0	0	1	0.02	16	0.02
Median for the vessel, gear, and year	0	0	0	0	0	0	0	0	0	0	11	0.23	23	0.03
Median for the vessel and year	0	0	0	0	0	0	0	0	0	0	6	0.12	6	0.01
Observer	4655	99.64	3413	99.59	3883	97.61	7282	98.90	6862	97.93	4798	98.42	86408	98.35

Variability of depth Values Used to Fill Missing Values

Distribution of cv for depth sources

CV=sd/mean for nonmissing values	Min	Q1	Mean	Q3	Max
Median for the trip	- 1.93	- 1.44	-0.58	- 0.03	-0.02
Median for the vessel, gear, year, and month	- 0.13	- 0.10	-0.04	0.00	0.00

	Min	Q1	Mean	Q3	Max
Median for the vessel, gear, and year	- 0.71	- 0.53	-0.37	- 0.32	0.00
Median for the vessel and year	- 0.38	- 0.38	-0.38	- 0.38	-0.38

Sources for Value of gearlentot Variable, Gillnet Observer Data, 1989-2006

Source of gearlentot value	1989-94		1995		1996		1997		1998		1999		2000	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	15905	73.22	41	0.65	34	0.63	22	0.38	32	0.52	1	0.02	63	1.08
Manual correction	0	0	0	0	0	0	0	0	3	0.05	0	0	0	0
Median for the trip	17	0.08	39	0.62	7	0.13	25	0.44	6	0.10	9	0.17	9	0.15
Median for the vessel, gear, year, and month	9	0.04	2	0.03	12	0.22	0	0	2	0.03	0	0	15	0.26
Median for the vessel, gear, and year	629	2.90	18	0.29	10	0.18	0	0	10	0.16	0	0	18	0.31
Median for the vessel and year	0	0	25	0.40	5	0.09	13	0.23	10	0.16	0	0	21	0.36
Observer	5162	23.76	6156	98.01	5361	98.75	5687	98.96	6128	98.98	5336	99.81	5696	97.84

	2001		2002		2003		2004		2005		2006		All	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	12	0.26	31	0.90	11	0.28	17	0.23	12	0.17	2	0.04	16183	18.42
Manual correction	0	0	0	0	0	0	0	0	0	0	0	0	3	0.00
Median for the trip	10	0.21	4	0.12	14	0.35	23	0.31	23	0.33	16	0.33	202	0.23
Median for the vessel, gear, year, and month	12	0.26	20	0.58	17	0.43	31	0.42	40	0.57	13	0.27	173	0.20
Median for the vessel, gear, and year	0	0	8	0.23	19	0.48	21	0.29	39	0.56	13	0.27	785	0.89
Median for the vessel and year	0	0	0	0	11	0.28	0	0	0	0	5	0.10	90	0.10
Observer	4638	99.27	3364	98.16	3906	98.19	7271	98.75	6893	98.37	4826	98.99	70424	80.15

Variability of gearlentot Values Used to Fill Missing Values

Distribution of cv for gearlentot sources

CV=sd/mean for nonmissing values	Min	Q1	Mean	Q3	Max
Median for the trip	0.00	0.00	0.06	0.11	0.47
Median for the vessel, gear, year, and month	0.00	0.00	0.08	0.15	0.39
Median for the vessel, gear, and year	0.00	0.06	0.16	0.21	1.19
Median for the vessel and year	0.00	0.00	0.03	0.08	0.08

Sources for Value of hauldur Variable, Gillnet Observer Data, 1989-2006

Source of hauldur value	1989-94		1995		1996		1997		1998		1999		2000	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Manual calculation	1	0.00	0	0	1	0.02	9	0.16	12	0.19	8	0.15	7	0.12
Manual correction	0	0	0	0	0	0	0	0	1	0.02	0	0	0	0
Median for the trip	16	0.07	7	0.11	25	0.46	2	0.03	1	0.02	7	0.13	21	0.36
Median for the vessel, gear, year, and month	12	0.06	0	0	0	0	0	0	0	0	0	0	2	0.03
Median for the vessel, gear, and year	0	0	0	0	0	0	0	0	0	0	0	0	1	0.02
Observer	21693	99.87	6274	99.89	5403	99.52	5736	99.81	6177	99.77	5331	99.72	5791	99.47

	2001		2002		2003		2004		2005		2006		All	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Manual calculation	1	0.02	0	0	0	0	1	0.01	0	0	0	0	40	0.05
Manual correction	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00
Median for the trip	12	0.26	14	0.41	34	0.85	39	0.53	16	0.23	21	0.43	215	0.24
Median for the vessel, gear, year, and month	0	0	0	0	1	0.03	0	0	0	0	0	0	15	0.02
Median for the vessel, gear, and year	0	0	0	0	4	0.10	0	0	0	0	0	0	5	0.01
Observer	4659	99.72	3413	99.59	3939	99.02	7323	99.46	6991	99.77	4854	99.57	87584	99.69

Variability of hauldur Values Used to Fill Missing Values

Distribution of cv for hauldur sources

CV=sd/mean for nonmissing values	Min	Q1	Mean	Q3	Max
Median for the trip	0.00	0.14	0.26	0.37	0.82
Median for the vessel, gear, year, and month	0.05	0.15	0.23	0.27	0.50
Median for the vessel, gear, and year	0.08	0.08	0.30	0.61	0.63

Sources for Value of hngratio Variable, Gillnet Observer Data, 1989-2006

Source of hngratio value	1989-94		1995		1996		1997		1998		1999		2000	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	91	0.42	43	0.68	12	0.22	21	0.37	66	1.07	82	1.53	198	3.40
Median for the trip	148	0.68	50	0.80	11	0.20	49	0.85	19	0.31	13	0.24	14	0.24
Median for the vessel, gear, year, and month	48	0.22	14	0.22	15	0.28	24	0.42	31	0.50	19	0.36	23	0.40
Median for the vessel, gear, and year	65	0.30	7	0.11	18	0.33	68	1.18	81	1.31	6	0.11	11	0.19
Median for the vessel and year	0	0	38	0.60	27	0.50	29	0.50	40	0.65	38	0.71	69	1.19
Observer	21370	98.38	6129	97.58	5346	98.47	5556	96.68	5954	96.17	5188	97.04	5507	94.59

	2001		2002		2003		2004		2005		2006		All	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	15	0.32	6	0.18	30	0.75	90	1.22	48	0.69	64	1.31	766	0.87
Median for the trip	0	0	0	0	8	0.20	21	0.29	35	0.50	11	0.23	379	0.43
Median for the vessel, gear, year, and month	17	0.36	4	0.12	27	0.68	140	1.90	154	2.20	27	0.55	543	0.62
Median for the vessel, gear, and year	0	0	3	0.09	25	0.63	119	1.62	212	3.03	131	2.69	746	0.85
Median for the vessel and year	0	0	0	0	0	0	30	0.41	0	0	15	0.31	286	0.33
Observer	4640	99.32	3414	99.62	3888	97.74	6963	94.57	6558	93.59	4627	94.91	85140	96.90

Variability of hngratio Values Used to Fill Missing Values

Distribution of cv for hngratio sources

CV=sd/mean for nonmissing values	Min	Q1	Mean	Q3	Max
Median for the trip	0.00	0.00	0.01	0.00	0.25
Median for the vessel, gear, year, and month	0.00	0.00	0.03	0.00	0.22
Median for the vessel, gear, and year	0.00	0.00	0.08	0.20	0.49
Median for the vessel and year	0.00	0.00	0.00	0.00	0.00

Sources for Value of latdd Variable, Gillnet Observer Data, 1989-2006

Source of latdd value	1989-94		1995		1996		1997		1998		1999		2000	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	185	0.85	21	0.33	0	0	9	0.16	250	4.04	176	3.29	45	0.77
Median for the trip	54	0.25	5	0.08	8	0.15	5	0.09	18	0.29	16	0.30	30	0.52
Observed haul begin	21464	98.81	6218	99.00	5417	99.78	5732	99.74	5912	95.49	5143	96.20	5728	98.39
Observed haul end	9	0.04	5	0.08	4	0.07	0	0	3	0.05	3	0.06	10	0.17
Observed set begin	9	0.04	32	0.51	0	0	1	0.02	8	0.13	8	0.15	8	0.14
Observed set end	1	0.00	0	0	0	0	0	0	0	0	0	0	1	0.02

	2001		2002		2003		2004		2005		2006		All	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	189	4.05	235	6.86	160	4.02	72	0.98	71	1.01	177	3.63	1590	1.81
Median for the trip	14	0.30	5	0.15	26	0.65	28	0.38	29	0.41	17	0.35	255	0.29
Observed haul begin	4462	95.51	3181	92.82	3788	95.22	7247	98.42	6889	98.32	4666	95.71	85847	97.71
Observed haul end	3	0.06	0	0	4	0.10	14	0.19	18	0.26	13	0.27	86	0.10
Observed set begin	4	0.09	6	0.18	0	0	2	0.03	0	0	2	0.04	80	0.09
Observed set end	0	0	0	0	0	0	0	0	0	0	0	0	2	0.00

Variability of latdd Values Used to Fill Missing Values

Distribution of cv for latdd sources

CV=sd/mean for nonmissing values	Min	Q1	Mean	Q3	Max
Median for the trip	0.00	0.00	0.00	0.00	0.01

Sources for Value of londd Variable, Gillnet Observer Data, 1989-2006

Source of londd value	1989-94		1995		1996		1997		1998		1999		2000	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	185	0.85	21	0.33	0	0	9	0.16	250	4.04	176	3.29	45	0.77
Median for the trip	54	0.25	5	0.08	8	0.15	5	0.09	18	0.29	16	0.30	30	0.52
Observed haul begin	21464	98.81	6218	99.00	5417	99.78	5732	99.74	5912	95.49	5143	96.20	5728	98.39
Observed haul end	9	0.04	5	0.08	4	0.07	0	0	3	0.05	3	0.06	10	0.17
Observed set begin	9	0.04	32	0.51	0	0	1	0.02	8	0.13	8	0.15	8	0.14
Observed set end	1	0.00	0	0	0	0	0	0	0	0	0	0	1	0.02

	2001		2002		2003		2004		2005		2006		All	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	189	4.05	235	6.86	160	4.02	72	0.98	71	1.01	177	3.63	1590	1.81
Median for the trip	14	0.30	5	0.15	26	0.65	28	0.38	29	0.41	17	0.35	255	0.29
Observed haul begin	4462	95.51	3181	92.82	3788	95.22	7247	98.42	6889	98.32	4666	95.71	85847	97.71
Observed haul end	3	0.06	0	0	4	0.10	14	0.19	18	0.26	13	0.27	86	0.10
Observed set begin	4	0.09	6	0.18	0	0	2	0.03	0	0	2	0.04	80	0.09
Observed set end	0	0	0	0	0	0	0	0	0	0	0	0	2	0.00

Variability of londd Values Used to Fill Missing Values

Distribution of cv for londd sources

CV=sd/mean for nonmissing values	Min	Q1	Mean	Q3	Max
Median for the trip	-0.01	-0.00	-0.00	-0.00	0.00

Sources for Value of mcvert Variable, Gillnet Observer Data, 1989-2006

Source of mcvert value	1989-94		1995		1996		1997		1998		1999		2000	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	11	0.05	43	0.68	62	1.14	20	0.35	97	1.57	111	2.08	221	3.80
Median for the trip	221	1.02	76	1.21	38	0.70	61	1.06	47	0.76	37	0.69	46	0.79
Median for the vessel, gear, year, and month	58	0.27	63	1.00	18	0.33	18	0.31	22	0.36	24	0.45	19	0.33
Median for the vessel, gear, and year	148	0.68	27	0.43	10	0.18	10	0.17	105	1.70	26	0.49	32	0.55
Median for the vessel and year	0	0	29	0.46	0	0	13	0.23	11	0.18	1	0.02	46	0.79
Observer	21284	97.98	6043	96.21	5301	97.64	5625	97.88	5909	95.45	5147	96.28	5458	93.75

	2001		2002		2003		2004		2005		2006		All	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	6	0.13	24	0.70	66	1.66	37	0.50	47	0.67	46	0.94	791	0.90
Median for the trip	5	0.11	2	0.06	21	0.53	48	0.65	38	0.54	16	0.33	656	0.75
Median for the vessel, gear, year, and month	1	0.02	18	0.53	5	0.13	50	0.68	92	1.31	37	0.76	425	0.48
Median for the vessel, gear, and year	0	0	12	0.35	44	1.11	89	1.21	144	2.06	57	1.17	704	0.80
Median for the vessel and year	0	0	0	0	0	0	11	0.15	0	0	5	0.10	116	0.13
Observer	4660	99.74	3371	98.37	3842	96.58	7128	96.81	6686	95.42	4714	96.70	85168	96.94

Variability of mcvert Values Used to Fill Missing Values

Distribution of cv for mcvert sources

CV=sd/mean for nonmissing values	Min	Q1	Mean	Q3	Max
Median for the trip	0.00	0.00	0.06	0.06	0.95
Median for the vessel, gear, year, and month	0.00	0.00	0.06	0.10	0.87
Median for the vessel, gear, and year	0.00	0.00	0.13	0.18	0.89
Median for the vessel and year	0.00	0.00	0.00	0.00	0.00

Sources for Value of mswgtavg Variable, Gillnet Observer Data, 1989-2006

Source of mswgtavg value	1989-94		1995		1996		1997		1998		1999		2000	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	0	0	30	0.48	39	0.72	20	0.35	4	0.06	22	0.41	55	0.94
Median for the trip	224	1.03	54	0.86	10	0.18	24	0.42	13	0.21	11	0.21	5	0.09
Median for the vessel, gear, year, and month	98	0.45	2	0.03	12	0.22	5	0.09	20	0.32	4	0.07	9	0.15
Median for the vessel, gear, and year	299	1.38	7	0.11	10	0.18	0	0	9	0.15	8	0.15	14	0.24
Median for the vessel and year	0	0	31	0.49	0	0	13	0.23	38	0.61	1	0.02	43	0.74
Observer: average of minimum and maximum	16075	74.00	118	1.88	23	0.42	195	3.39	220	3.55	175	3.27	240	4.12
Observer	5026	23.14	6039	96.15	5335	98.27	5490	95.53	5887	95.09	5125	95.87	5456	93.71

	2001		2002		2003		2004		2005		2006		All	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	0	0	0	0	0	0	2	0.03	0	0	1	0.02	173	0.20
Median for the trip	21	0.45	14	0.41	3	0.08	6	0.08	3	0.04	1	0.02	389	0.44
Median for the vessel, gear, year, and month	1	0.02	11	0.32	0	0	0	0	6	0.09	0	0	168	0.19
Median for the vessel, gear, and year	0	0	0	0	0	0	0	0	0	0	0	0	347	0.39
Median for the vessel and year	0	0	3	0.09	0	0	0	0	0	0	0	0	129	0.15
Observer: average of minimum and maximum	28	0.60	55	1.60	185	4.65	102	1.39	121	1.73	46	0.94	17583	20.01
Observer	4622	98.93	3344	97.58	3790	95.27	7253	98.51	6877	98.14	4827	99.02	69071	78.61

Variability of mswgtavg Values Used to Fill Missing Values

Distribution of cv for mswgtavg sources

CV=sd/mean for nonmissing values	Min	Q1	Mean	Q3	Max
Median for the trip	0.00	0.00	0.03	0.03	0.36
Median for the vessel, gear, year, and month	0.00	0.00	0.01	0.03	0.10
Median for the vessel, gear, and year	0.00	0.00	0.06	0.11	0.14
Median for the vessel and year	0.00	0.00	0.03	0.06	0.07

Sources for Value of netlen Variable, Gillnet Observer Data, 1989-2006

Source of netlen value	1989-94		1995		1996		1997		1998		1999		2000	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	0	0	35	0.56	3	0.06	10	0.17	2	0.03	0	0	47	0.81
Manual correction	0	0	0	0	0	0	0	0	3	0.05	0	0	0	0
Median for the trip	27	0.12	39	0.62	6	0.11	24	0.42	5	0.08	8	0.15	4	0.07
Median for the vessel, gear, year, and month	20	0.09	2	0.03	12	0.22	0	0	2	0.03	0	0	0	0
Median for the vessel, gear, and year	1	0.00	7	0.11	10	0.18	0	0	4	0.06	0	0	14	0.24
Median for the vessel and year	0	0	31	0.49	36	0.66	25	0.44	40	0.65	1	0.02	37	0.64
Observer	21674	99.78	6167	98.19	5362	98.77	5688	98.97	6135	99.10	5337	99.83	5720	98.25

	2001		2002		2003		2004		2005		2006		All	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	0	0	0	0	0	0	0	0	0	0	2	0.04	99	0.11
Manual correction	0	0	0	0	0	0	0	0	0	0	0	0	3	0.00
Median for the trip	0	0	2	0.06	5	0.13	6	0.08	6	0.09	6	0.12	138	0.16
Median for the vessel, gear, year, and month	0	0	0	0	5	0.13	0	0	13	0.19	0	0	54	0.06
Median for the vessel, gear, and year	0	0	0	0	0	0	0	0	10	0.14	0	0	46	0.05
Median for the vessel and year	12	0.26	0	0	0	0	0	0	0	0	5	0.10	187	0.21
Observer	4660	99.74	3425	99.94	3968	99.75	7357	99.92	6978	99.59	4862	99.73	87333	99.40

Variability of netlen Values Used to Fill Missing Values

Distribution of cv for netlen sources

CV=sd/mean for nonmissing values	Min	Q1	Mean	Q3	Max
Median for the trip	0.00	0.00	0.01	0.00	0.27
Median for the vessel, gear, year, and month	0.00	0.00	0.02	0.00	0.17
Median for the vessel, gear, and year	0.00	0.00	0.00	0.00	0.00
Median for the vessel and year	0.00	0.00	0.00	0.00	0.05

Sources for Value of nnets Variable, Gillnet Observer Data, 1989-2006

Source of nnets value	1989-94		1995		1996		1997		1998		1999		2000	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	15905	73.22	36	0.57	34	0.63	22	0.38	32	0.52	1	0.02	63	1.08
Median for the trip	13	0.06	34	0.54	7	0.13	19	0.33	3	0.05	6	0.11	3	0.05
Median for the vessel, gear, year, and month	3	0.01	1	0.02	12	0.22	0	0	2	0.03	0	0	0	0
Median for the vessel, gear, and year	629	2.90	7	0.11	10	0.18	0	0	4	0.06	0	0	14	0.24
Median for the vessel and year	0	0	25	0.40	5	0.09	13	0.23	10	0.16	0	0	21	0.36
Observer	5172	23.81	6178	98.36	5361	98.75	5693	99.06	6140	99.18	5339	99.87	5721	98.27

	2001		2002		2003		2004		2005		2006		All	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	0	0	0	0	0	0	0	0	0	0	0	0	16093	18.32
Median for the trip	0	0	0	0	0	0	0	0	0	0	1	0.02	86	0.10
Median for the vessel, gear, year, and month	0	0	0	0	0	0	0	0	0	0	0	0	18	0.02
Median for the vessel, gear, and year	0	0	0	0	0	0	0	0	3	0.04	0	0	667	0.76
Median for the vessel and year	0	0	0	0	0	0	0	0	0	0	0	0	74	0.08
Observer	4672	100.0	3427	100.0	3978	100.0	7363	100.0	7004	99.96	4874	99.98	70922	80.72

Variability of nnets Values Used to Fill Missing Values

Distribution of cv for nnets sources

CV=sd/mean for nonmissing values	Min	Q1	Mean	Q3	Max
Median for the trip	0.00	0.00	0.06	0.11	0.47
Median for the vessel, gear, year, and month	0.00	0.00	0.01	0.00	0.16
Median for the vessel, gear, and year	0.00	0.05	0.15	0.21	0.60
Median for the vessel and year	0.00	0.00	0.03	0.08	0.08

Sources for Value of soakdur Variable, Gillnet Observer Data, 1989-2006

Source of soakdur value	1989-94		1995		1996		1997		1998		1999		2000	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	3	0.01	4	0.06	0	0	0	0	0	0	35	0.65	1	0.02
Manual calculation	44	0.20	251	4.00	99	1.82	87	1.51	98	1.58	192	3.59	301	5.17
Median for the trip	10	0.05	24	0.38	13	0.24	15	0.26	9	0.15	2	0.04	36	0.62
Median for the vessel, gear, year, and month	6	0.03	0	0	6	0.11	0	0	0	0	2	0.04	3	0.05
Median for the vessel, gear, and year	4	0.02	3	0.05	6	0.11	2	0.03	0	0	0	0	0	0
Median for the vessel and year	0	0	0	0	0	0	0	0	8	0.13	0	0	0	0
Observer	21655	99.69	5999	95.51	5305	97.72	5643	98.19	6076	98.14	5115	95.68	5481	94.14

	2001		2002		2003		2004		2005		2006		All	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	0	0	0	0	6	0.15	12	0.16	0	0	0	0	61	0.07
Manual calculation	42	0.90	44	1.28	38	0.96	56	0.76	114	1.63	119	2.44	1485	1.69
Median for the trip	8	0.17	24	0.70	18	0.45	39	0.53	41	0.59	25	0.51	264	0.30
Median for the vessel, gear, year, and month	0	0	0	0	5	0.13	19	0.26	24	0.34	7	0.14	72	0.08
Median for the vessel, gear, and year	0	0	2	0.06	44	1.11	21	0.29	6	0.09	6	0.12	94	0.11
Median for the vessel and year	0	0	0	0	2	0.05	1	0.01	0	0	0	0	11	0.01
Observer	4622	98.93	3357	97.96	3865	97.16	7215	97.99	6822	97.36	4718	96.78	85873	97.74

Variability of soakdur Values Used to Fill Missing Values

Distribution of cv for soakdur sources

CV=sd/mean for nonmissing values	Min	Q1	Mean	Q3	Max
Median for the trip	0.00	0.00	0.43	0.62	2.44
Median for the vessel, gear, year, and month	0.00	0.00	0.31	0.50	1.00
Median for the vessel, gear, and year	0.00	0.00	0.29	0.44	1.48
Median for the vessel and year	0.00	0.00	0.06	0.08	0.08

Sources for Value of wtmp Variable, Gillnet Observer Data, 1989-2006

Source of wtmp value	1989-94		1995		1996		1997		1998		1999		2000	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	1266	5.83	8	0.13	0	0	4	0.07	64	1.03	8	0.15	8	0.14
Manual correction	0	0	0	0	0	0	1	0.02	0	0	1	0.02	3	0.05
Median for the trip	28	0.13	1	0.02	9	0.17	3	0.05	55	0.89	12	0.22	4	0.07
Median for the vessel, gear, year, and month	55	0.25	0	0	2	0.04	0	0	4	0.06	0	0	6	0.10
Satellite	17035	78.42	533	8.49	566	10.43	230	4.00	461	7.45	328	6.14	665	11.42
Observer	3338	15.37	5739	91.37	4852	89.37	5509	95.86	5607	90.57	4997	93.47	5136	88.22

	2001		2002		2003		2004		2005		2006		All	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	20	0.43	0	0	3	0.08	0	0	0	0	16	0.33	1397	1.59
Manual correction	1	0.02	1	0.03	0	0	0	0	2	0.03	0	0	9	0.01
Median for the trip	4	0.09	0	0	2	0.05	14	0.19	2	0.03	1	0.02	135	0.15
Median for the vessel, gear, year, and month	17	0.36	13	0.38	4	0.10	2	0.03	0	0	0	0	103	0.12
Satellite	195	4.17	64	1.87	123	3.09	244	3.31	234	3.34	143	2.93	20821	23.70
Observer	4435	94.93	3349	97.72	3846	96.68	7103	96.47	6769	96.60	4715	96.72	65395	74.43

Variability of wtmp Values Used to Fill Missing Values

Distribution of cv for wtmp sources

CV=sd/mean for nonmissing values	Min	Q1	Mean	Q3	Max
Median for the trip	0.00	0.00	0.01	0.01	0.07
Median for the vessel, gear, year, and month	0.00	0.00	0.02	0.06	0.07

Sources for Value of wtmp2 Variable, Gillnet Observer Data, 1989-2006

Source of wtmp2 value	1989-94		1995		1996		1997		1998		1999		2000	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	1266	5.83	8	0.13	0	0	4	0.07	64	1.03	8	0.15	8	0.14
Manual correction	0	0	0	0	0	0	1	0.02	0	0	1	0.02	2	0.03
Median for the trip	28	0.13	1	0.02	9	0.17	3	0.05	55	0.89	12	0.22	4	0.07
Median for the vessel, gear, year, and month	55	0.25	0	0	2	0.04	0	0	4	0.06	0	0	6	0.10
Satellite	17493	80.53	1401	22.31	1508	27.78	970	16.88	1557	25.15	1617	30.25	1869	32.10
Observer	2880	13.26	4871	77.55	3910	72.02	4769	82.98	4511	72.86	3708	69.36	3933	67.55

	2001		2002		2003		2004		2005		2006		All	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	20	0.43	0	0	3	0.08	0	0	0	0	16	0.33	1397	1.59
Manual correction	1	0.02	1	0.03	0	0	0	0	2	0.03	0	0	8	0.01
Median for the trip	4	0.09	0	0	2	0.05	14	0.19	2	0.03	1	0.02	135	0.15
Median for the vessel, gear, year, and month	17	0.36	13	0.38	4	0.10	2	0.03	0	0	0	0	103	0.12
Satellite	1122	24.02	635	18.53	714	17.95	1322	17.95	1755	25.05	1214	24.90	33177	37.76
Observer	3508	75.09	2778	81.06	3255	81.83	6025	81.83	5248	74.90	3644	74.75	53040	60.37

Variability of wtmp2 Values Used to Fill Missing Values

Distribution of cv for wtmp2 sources

CV=sd/mean for nonmissing values	Min	Q1	Mean	Q3	Max
Median for the trip	0.00	0.00	0.01	0.02	0.08
Median for the vessel, gear, year, and month	0.00	0.00	0.02	0.06	0.07

Sources for Value of wtmp3 Variable, Gillnet Observer Data, 1989-2006

Source of wtmp3 value	1989-94		1995		1996		1997		1998		1999		2000	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	1266	5.83	8	0.13	0	0	4	0.07	64	1.03	8	0.15	8	0.14
Manual correction	0	0	0	0	0	0	1	0.02	0	0	1	0.02	3	0.05
Median for the trip	28	0.13	1	0.02	9	0.17	3	0.05	55	0.89	12	0.22	4	0.07
Median for the vessel, gear, year, and month	55	0.25	0	0	2	0.04	0	0	4	0.06	0	0	6	0.10
Satellite	17043	78.46	669	10.65	753	13.87	270	4.70	562	9.08	361	6.75	780	13.40
Observer	3330	15.33	5603	89.21	4665	85.93	5469	95.16	5506	88.94	4964	92.85	5021	86.24

	2001		2002		2003		2004		2005		2006		All	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	20	0.43	0	0	3	0.08	0	0	0	0	16	0.33	1397	1.59
Manual correction	1	0.02	1	0.03	0	0	0	0	2	0.03	0	0	9	0.01
Median for the trip	4	0.09	0	0	2	0.05	14	0.19	2	0.03	1	0.02	135	0.15
Median for the vessel, gear, year, and month	17	0.36	13	0.38	4	0.10	2	0.03	0	0	0	0	103	0.12
Satellite	291	6.23	68	1.98	170	4.27	361	4.90	421	6.01	179	3.67	21928	24.96
Observer	4339	92.87	3345	97.61	3799	95.50	6986	94.88	6582	93.93	4679	95.98	64288	73.17

Variability of wtmp3 Values Used to Fill Missing Values

Distribution of cv for wtmp3 sources

CV=sd/mean for nonmissing values	Min	Q1	Mean	Q3	Max
Median for the trip	0.00	0.00	0.01	0.01	0.07
Median for the vessel, gear, year, and month	0.00	0.00	0.02	0.06	0.07

Note: The categorical variables anchusd, spaceusd, and tiednusd sometimes carry a value of “9” that was recorded by the observer. This is equal to “unknown” and is considered as missing in the tables below. Spaceusd and tiednusd were not recorded before May 1994. All hauls prior to that are reflected here as missing, although in the database they carry a value of “9”.

Sources for Value of anchusd Variable, Gillnet Observer Data, 1989-2006

Source of anchusd value	1989-94		1995		1996		1997		1998		1999		2000	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	1257	5.79	93	1.48	64	1.18	58	1.01	58	0.94	10	0.19	94	1.61
Nearest haul on the trip	23	0.11	17	0.27	2	0.04	0	0	0	0	5	0.09	3	0.05
Nearest haul for the vessel, gear, and year	0	0	0	0	0	0	0	0	0	0	0	0	14	0.24
Nearest haul for the vessel, gear, year, month	9	0.04	1	0.02	3	0.06	0	0	0	0	0	0	0	0
Observer	20433	94.07	6170	98.23	5360	98.73	5689	98.99	6133	99.06	5331	99.72	5711	98.09

	2001		2002		2003		2004		2005		2006		All	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	0	0	0	0	1	0.03	0	0	8	0.11	0	0	1643	1.87
Nearest haul on the trip	0	0	0	0	0	0	0	0	0	0	0	0	50	0.06
Nearest haul for the vessel, gear, and year	0	0	0	0	0	0	0	0	0	0	0	0	14	0.02
Nearest haul for the vessel, gear, year, month	0	0	0	0	0	0	0	0	0	0	0	0	13	0.01
Observer	4672	100.0	3427	100.0	3977	99.97	7363	100.0	6999	99.89	4875	100.0	86140	98.04

Sources for Value of spaceusd Variable, Gillnet Observer Data, 1989-2006

Source of spaceusd value	1989-94		1995		1996		1997		1998		1999		2000	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	16534	76.12	85	1.35	60	1.11	53	0.92	50	0.81	105	1.96	265	4.55
Nearest haul on the trip	13	0.06	17	0.27	2	0.04	0	0	0	0	5	0.09	3	0.05
Nearest haul for the vessel, gear, year, month	3	0.01	1	0.02	3	0.06	0	0	0	0	0	0	0	0
Observer	5172	23.81	6178	98.36	5364	98.80	5694	99.08	6141	99.19	5236	97.94	5554	95.40

	2001		2002		2003		2004		2005		2006		All	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	0	0	0	0	5	0.13	16	0.22	17	0.24	10	0.21	17200	19.58
Nearest haul on the trip	0	0	0	0	0	0	0	0	0	0	0	0	40	0.05
Nearest haul for the vessel, gear, year, month	0	0	0	0	0	0	0	0	0	0	0	0	7	0.01
Observer	4672	100.0	3427	100.0	3973	99.87	7347	99.78	6990	99.76	4865	99.79	70613	80.37

Sources for Value of tiednurd Variable, Gillnet Observer Data, 1989-2006

Source of tiednurd value	1989-94		1995		1996		1997		1998		1999		2000	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	16553	76.20	100	1.59	87	1.60	74	1.29	99	1.60	126	2.36	292	5.02
Nearest haul on the trip	13	0.06	17	0.27	2	0.04	0	0	0	0	5	0.09	3	0.05
Nearest haul for the vessel, gear, year, month	3	0.01	1	0.02	3	0.06	0	0	0	0	0	0	0	0
Observer	5153	23.72	6163	98.12	5337	98.31	5673	98.71	6092	98.40	5215	97.55	5527	94.93

	2001		2002		2003		2004		2005		2006		All	
	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%	Hauls	%
Missing	0	0	0	0	7	0.18	13	0.18	28	0.40	6	0.12	17385	19.79
Nearest haul on the trip	0	0	0	0	0	0	0	0	0	0	0	0	40	0.05
Nearest haul for the vessel, gear, year, month	0	0	0	0	0	0	0	0	0	0	0	0	7	0.01
Observer	4672	100.0	3427	100.0	3971	99.82	7350	99.82	6979	99.60	4869	99.88	70428	80.16