

Year	BPR ID	Deploy date	Deploy time (GMT)	Deployer ship	Recover date	Recover time (GMT)	Recoverer ship	Depth (m)	Position	Height of mooring (m)	BPR ID	Para ID	OSG #	MTB	Dynamics range (g)	Calculus of drift rate (cm/hr)	Associate NSF Award	Notes	
1987-1988	WC09	23-Sep-87	3:00	ATLAS 18	10-Jul-88	18:35	NDA SHIP DISCOVERER	1527	045-57 11 N 129-58 02 W			24081	na	na					
1988-1990	WC15	5-Sep-88	18:49	NDA SHIP DISCOVERER	04-Aug-89	14:15	DISCOVERER	1558	045-57 11 N 129-58 02 W			24081	na	na					Failed deployment. Release on found sheath.
1988-1990	WC20	6-Sep-89	22:40	NDA SHIP DISCOVERER	20-Jul-90	16:51	DISCOVERER	1550	045-57 11 N 129-58 02 W			24081	na	na					
1990-1991	WC25	18-Aug-90	8:16	NDA SHIP DISCOVERER	22-May-91	20:12	DISCOVERER	1536	045-57 11 N 129-58 02 W			24081	na	na					
1991-1992	WC32	23-Jun-91	13:59	UNKNOWN	04-Jun-92	1:30	DISCOVERER	1540	045-57 11 N 129-58 02 W			24081	na	na					
1992-1993	WC40R	6-Jul-92	4:15	NDA SHIP DISCOVERER	12-Jun-93	2:11	DISCOVERER	1542	045-57 11 N 129-58 02 W			40992	18	na					
	WC41	6-Jul-92	17:40	NDA SHIP DISCOVERER	11-Jun-93	22:29	DISCOVERER	1539	045-57 11 N 129-58 02 W			24081	1	na					
1993-1994	WC51	20-Jul-93	21:26	NDA SHIP DISCOVERER	17-Sep-94	19:17	DISCOVERER	1540	045-57 11 N 129-58 02 W			40992	37	na					100% RETURN NO SPIKES UNORANGE WIRE HAD A SHORT. LAST 'X' CAUSE.
	WC53	20-Jul-93	23:23	NDA SHIP DISCOVERER	17-Sep-94	20:44	DISCOVERER	1540	045-57 11 N 129-58 02 W			24081	3	na					
1994-1995	WC61R	5-Aug-94	20:15	NDA SHIP DISCOVERER	15-Jun-95	7	DISCOVERER	1550	045-57 11 N 129-58 02 W			40175	3236	na					100% DATA RETURN
	WC62R	17-Sep-94	20:45	NDA SHIP DISCOVERER	15-Jun-95	7	DISCOVERER	1550	045-57 11 N 129-58 02 W			3234	20	3234					100% DATA RETURN
1995-1998	WC67R	20-Jul-95	23:30	NDA SHIP DISCOVERER	26-Jun-96	21:31	NDA SHIP DISCOVERER	1543	045-57 22 N 129-58 02 W			40175	18	3234					100% DATA RECOVERY. OSG WAS 18 SEC AHEAD OF UT. Record contained burials. Located outside cables to the NE
	WC68R	20-Jul-95	18:00	NDA SHIP DISCOVERER	01-Jul-96	20:23	NDA SHIP DISCOVERER	1550	045-57 4 N 130-00 02 W			30746	20	3234					100% DATA RECOVERY. OSG WAS 11 SEC AHEAD OF UT. Record contained burials. Located near the station vessel.
	WC69R	18-Jun-95	1:00	NDA SHIP DISCOVERER	22-Jun-96	20:30	NDA SHIP DISCOVERER	1535	045-58 11 N 129-58 02 W			40992	97	3232					100% DATA RECOVERY. OSG WAS 22 SEC AHEAD OF UT. Record contained burials. Located near base near 20 m (see caption).
1996-1997	WC74R	27-Jul-96	10:43	NDA SHIP DISCOVERER	09-Oct-97	1:00	NDA SHIP RON BROWN	1526	045-57 38 N 129-53 27 W			39746	20	3168					BATTERY PROBLEM. REMOVED JAMMER FOR USE OR POSITION FROM CENTER BOARD
1997-1998	WC81 VSM1	2-Oct-97	23:47	NDA SHIP RON BROWN	07-Aug-98	8:12	NDA SHIP RON BROWN	1535	045-57 4 N 129-58 02 W	1 m	C-7	40992	37	10,000					Was at center of Axial volcano during 1998 eruption. Accurate positions are necessary for correlation.
	WC82 VSM2	3-Oct-97	2:56	NDA SHIP RON BROWN	08-Jul-99	17:30	R/V Thompson	1524	045-55 81-4N 129 58 02W	1 m	E-21	37429	5	7	10,000				Stuck in 1998 lava. Recovered in July-1999. Data only to 05-May-2000. Note: data may be in two 1-year long parts (a and b).
1998-1999	WC87	11-Aug-98	7	NDA SHIP RON BROWN	02-Sep-98	18:30	R/V Thompson	1541	045-58 10N 129 58 02W	1 m	C-9	40175	18	3233	10,000				This is one of Chris Farris' submersions. It was forgotten about and never recovered! Found with HRCDS in 2006. Recovered by ROPDS in 2006.
1999-2000	(none)																		No BPR deployed at Axial this year.
	NeM0200 0 BPR-Center	08-Jul-00	20:00	NDA SHIP DISCOVERER	19-Jul-02	16:00	R/V Thompson	1530	045-57 213N 130 00 00W		D-8	73461	10	10,000					Connected to NAMO Net.
	NeM0200 2 BPR-Center	20-Jul-00	4:00	R/V Thompson	16-Jul-04	16:00	R/V Thompson	1535	045-57 151N 130 00 00W		D-20	87619	10	3,000	0.000				Connected to NAMO Net. Deployed about 300 m south of cable center. There are spikes in the pre-data that are periodic and decrease in amplitude with time.
	NeM0200 3 BPR-Center	04-Sep-00	8:00	R/V Thompson	11-May-05	4:00	Wisconsin	1510	045-57 213N 130 00 00W	15 m	D-4-43	40992	4	10,000					AKA "NeM02003-center (a)". Cable center. Not connected to NAMO Net.
	NeM0200 3 BPR-South	04-Sep-00	8:00	R/V Thompson	11-May-05	2:00	Wisconsin	1510	045-58 00N 130-00-00W	50 m	D-4-44	81185	4	10,000					AKA "NeM02003-south (a)". Cable center. Connected between 04:58 and 05:01. Not connected to NAMO Net. Not recovered at this location. Data is suspect. Strapped back to SEA, then deployed later in 2002.
	NeM0200 4 BPR-Center	31-Oct-04	4:00	NDA SHIP FRYLAKAI (during transit)	08-Aug-07	20:00	R/V Atlanta	1530	045-57 10N 130-00-00W	50 m	E-1	86914	11	10,000		-7:14			AKA "NeM02004-center (a)". Connected to NAMO Net with accurate moorings. Deployed ~200 m south of cable center. These moorings carry extra float from moorings. Float data on 05:01 and several offshore & data gaps 01:10:07 to 02:09:07, all due to mooring cable problems.
	NeM0200 5 BPR-South-1	11-May-05	23:00	Wisconsin	08-Aug-07	19:00	R/V Atlanta	1535	045-56 559N 130-00-00W	30 m	E-4	40992	15	10,000					AKA "NeM02005-south-1". On recovery debris reply because battery voltage was only 2V. The release happened a few hours after the first release command was sent (was the BPR on an unstable or flat surface?). Data good except for gaps Dec 31, 2006 to Jan 08, 2007, but batteries died at BPR March 20, 2008, or the end before it was recovered on Jan 16, 2009.
	NeM0200 5 BPR-South-2	08-Aug-05	5:00	Wisconsin	08-Aug-07	19:00	R/V Atlanta	1530	045-55 099N 130 00 00W	30 m	E-04	81185	15	10,000					AKA "NeM02005-south-2". On recovery debris reply because battery voltage was only 2V. The release happened a few hours after the first release command was sent (was the BPR on an unstable or flat surface?). Data good except for gaps Dec 31, 2006 to Jan 08, 2007, but batteries died at BPR March 20, 2008, or the end before it was recovered on Jan 16, 2009.
	NeM0200 7 BPR-South-1	18-Aug-07	1:00	R/V Atlanta	19-Jun-09	1:00	R/V Atlanta	1553	045-56 511N 130 00 00W	15 m	E-4	40992	15	10,000					AKA "NeM02007-south-1". Position surveyed with WorkBook. This is the same BPR that was NeM02005-south-1, but had the last component and had a few cables in the data. On recovery had a broken cable. Few data gaps but read with BPR Prober software v3.12. After recovery the BPR board was replaced, but the panel sensor was left.
	NeM0200 7 BPR-Center	19-Aug-07	1:00	R/V Atlanta	03-Sep-10	18:30	R/V Thompson	1534	045-57 16N 130 00 00W	15 m	E-048	103462	13		-17:05				Position surveyed with WorkBook. This instrument was deployed for 6 days (08:00:00 to 09:12:00) and was released to BPR data during our R/V BPR survey. Then was re-deployed on 08:02:00. Note: the data file is labeled as 08:02:00. BPR firmware before it could be read, because the BPR firmware was not updated. First small gaps in the data between Jan 7-17, 2008.
	NeM0200 9 BPR-South-1	20-Jun-09	0:00	R/V Atlanta	03-Sep-10	18:30	R/V Atlanta	1543	45 05 508N 129 58 02W	15 m	E-4	40992	11						WorkBook. BPR used on regular NeM02002-midBPR. The Pass gauge has an expiration date of 20-20 only. BPR was intended for use and not used in 2011 and 2013. LOGIT - current 07:29:53
	NeM0200 9 BPR-South-2	21-Jun-09	4:50	R/V Atlanta	28-Jul-11	16:46	R/V Atlanta	1541	45 04 564N 129 58 02W	15 m	E-004	81185	11	10,000					Position surveyed with WorkBook. Same BPR as NeM02009-south BPR. Data gaps in file. RECORDED AND 2011 EDITION
	NeM0201 0 BPR-Center	04-Sep-10	20:15	R/V Thompson	27-Jul-11	13:48	R/V Atlanta	1550	045-57 238N 130 00 00W	15 m	E-048	103462	13	10,000	-17:05				Position surveyed with WorkBook. Updated the BPR firmware when we started it around in 2010, and should be OK now. Release would've been on first attempt. On recovery, it did not respond to any commands or ranging, but it DID release. Test 24-hour data in the file. RECORDED AND 2011 EDITION
	NeM0201 1 BPR-South	30-Jul-11	20:41	R/V Atlanta	8-Aug-13	21:30	R/V Thompson	1541	45 04 04N 129 55 00W	15 m	E-004	81185	13	10,000					Position stop target (not surveyed). Recovered by Delaware as the BPR could be serviced at PAEL between cables. Cops in the file. Checklist label in the log during survey.
	NeM0201 1 BPR-Center	30-Jul-11	21:10	R/V Atlanta	14-Aug-13	0:48	R/V Thompson	1550	045-57 228N 130 00 00W	15 m	E-048	103462	13	10,000	-8:19				Position stop target (not surveyed). Recovered by Delaware as the BPR could be serviced at PAEL between cables. First part of data file corrupted and had to be removed with the file editor. Note OK. Data in the file.
	NeM0201 3 BPR-Center	5-Sep-13	18:05	R/V Thompson	28-Aug-15	0:48	R/V Thompson	1542	045-57 407N 130 00 00W	15 m	E-048	103462	13	10,000	20:10				Serviced in Seattle in August 2013. Position surveyed with WorkBook. Recovered 08/20/15.
	NeM0201 3 BPR-South-1	5-Sep-13	17:05	R/V Thompson	18-Aug-15	18:35	R/V Thompson	1541	045-55 309N 130 00 00W	15 m	E-004	81185	13	10,000	-8:19				Serviced in Seattle in August 2013. Position surveyed with WorkBook. Recovered 08/20/15.
	NeM0201 3 BPR-South-2	5-Sep-13	17:56	R/V Thompson	18-Aug-15	17:56	R/V Thompson	1540	045-54 059N 129 57 00W	15 m	E-013	103300	13	3,000	-6:04				New instrument to replace one that during 2011 eruption. Position surveyed with WorkBook. But still had problems with one data gap. Recovered April 2015.
	NeM0201 5 BPR-Center	27-Aug-15	12:40	R/V Thompson	15-Jul-17	2:30	R/V Reveille	1541	045-57 407N 130 00 00W	15 m	E-048	103462	13	10,000	-5:30				Position stop location (unsurveyed). Good data.
	NeM0201 5 BPR-South-2	18-Aug-15	21:05	R/V Thompson	14-Jul-17	23:30	R/V Reveille	1538	045-54 359N 129 58 00W	15 m	E-013	103300	13	3,000	-3:14				Position stop location (unsurveyed). Good data.
	mini-BPR 06	23-Aug-15	5:00	Jean dev 22	17-Jul-17	12:00	Jean dev 22	965	59 07 07N Benchmark AX-302	na		12531	2000	3:140					Deployed on MPI benchmark AX-302 (True north)
	mini-BPR 07	23-Aug-15	9:00	Jean dev 22	19-Jul-17	11:00	Jean dev 22	965	59 07 07N Benchmark AX-302	na		125573	2000	19:870					Deployed on MPI benchmark AX-307 (Magnetic north)
	mini-BPR 08	23-Aug-15	14:00	Jean dev 22	19-Jul-17	15:20	Jean dev 22	966	59 32 00N Benchmark AX-306	na		127339	3000	-10:279					Deployed on MPI benchmark AX-308 (BPR-South). Data only recorded until 04:20:20/17 23:02:20 due to premature battery exhaustion.
	mini-BPR 09	23-Aug-15	11:00	Jean dev 22	19-Jul-17	13:00	Jean dev 22	965	59 09 00N Benchmark AX-106	na		127331	3000	30:154					Deployed on MPI benchmark AX-106 (ASBIS)
	mini-BPR 12	24-Aug-15	6:00	Jean dev 22	19-Jul-17	1:30	Jean dev 22	965	58 03 00N Benchmark AX-303	na		132873	6000	-8:611					Deployed on MPI benchmark AX-303 (36hr/33 vert)
	mini-BPR 13	23-Aug-15	18:00	Jean dev 22	21-Jul-17	8:00	Jean dev 22	967	59 22 00N Benchmark AX-103	na		132874	6000	-14:110					Deployed on MPI benchmark AX-105 (South yellow moored, MPI reference site)
2017	NeM0201 7 BPR-Center	17-Jul-17	5:52	R/V Reveille	08 deployed			1530	045-57 447N 130 00 00W	15 m	E-048	103462							Position stop location (unsurveyed)
2017	NeM0201 7 BPR-South-2	18-Jul-17	7:13	R/V Reveille	08 deployed			1530	045-54 288N 129 58 00W	15 m	E-013	103300	1	3,000					Position stop location (unsurveyed)
2017	NeM0201 7 BPR-North	15-Jul-17	4:38	R/V Reveille	08 deployed			1578	045-55 330N 130 01 120W	15 m	E-004	81185							New location. This BPR was replaced in Seattle after falling on deck after recovery in 2015.
2017	NeM0201 7 BPR-West	15-Jul-17	5:50	R/V Reveille	08 deployed			1418	045-57 011N 130 02 141W	15 m		107873							New location and new 4th BPR for use at Axial