CGSN
Coastal & Global Scale Nodes

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Document Name: Station Papa 1 Deployment Cruise Plan

Approver	Date	Description	Ver
Uwe Send	7/17/2013	Initial Release	1-00

H. Larkhurt 2014-01-21

SIO Cruise Plan for Station PAPA

Deployment of: University of Washinton dock: 47.651 N 122.314 W

Two flanking moorings, one hybrid profiler, three gliders.

ALL TIMES ARE LOCAL TIME

Time start	Time end	hours	Activity	Water samples	Starting point	Waypoint	Distance in nautical miles	transit hrs at 10 knots	Sum of transit hours	Sum of hours
13-Jul-2013 8:00	**15-Jul-2013 8:00**		Station PAPA cruise mob on RV Melville, UW dock							
15-Jul-2013 9:00	**15-Jul-2013 9:00**		**Depart UW dock, Washington**		**UW dock: 47.651 N 122.314 W**	**Flanking Mooring A: 50.4676 N, 144.5174 W**	**890**	**89**	**89**	
15-Jul-2013 9:00	15-Jul-2013 21:00	12:00	Harbor transit, Exit Seattle					12		12:00
15-Jul-2013 21:00	17-Jul-2013 12:30	39:30	**Transit** to Flanking Mooring A site					24		39:30
17-Jul-2013 12:30	17-Jul-2013 16:30	04:00	Pre-deployment CTD cast to 3500m (microcats & releasers)	Yes						04:00
17-Jul-2013 16:30	17-Jul-2013 19:00	02:30	Continue **transit** to Flanking Mooring A site, download CTD calibration data					10		02:30
17-Jul-2013 19:00	17-Jul-2013 22:00	03:00	calibration CTD cast to 1000 m (microcats and releases)	Yes						03:00
17-Jul-2013 22:00	18-Jul-2013 0:00	02:00	Continue **transit** to Flanking Mooring A site, download CTD calibration data					21		02:00
18-Jul-2013 0:00	18-Jul-2013 2:00	02:00	calibration CTD cast to 500 m (at night for chlorophyll)	Yes						02:00
18-Jul-2013 2:00	19-Jul-2013 8:00	30:00	Continue **transit** to Flanking Mooring A site, download CTD calibration data, prepare deck for deployment					34		30:00
19-Jul-2013 8:00	**19-Jul-2013 8:00**	00:00	**Arrive at Flanking Mooring A site**							00:00
19-Jul-2013 8:00	19-Jul-2013 15:00	07:00	5 glider deployments							07:00
19-Jul-2013 15:00	19-Jul-2013 16:00	01:00	Verification CTD cast to 1000m for the gliders, no instruments or samples							01:00
19-Jul-2013 16:00	20-Jul-2013 0:00	08:00	Multibeam survey of bathymetry							08:00
20-Jul-2013 0:00	20-Jul-2013 7:00	07:00	Continue sea beam surveys of the general array area, return to Flanking Mooring A site							07:00
20-Jul-2013 7:00	20-Jul-2013 10:00	03:00	Bathymetry Survey, prepare for deployment							03:00
20-Jul-2013 10:00	20-Jul-2013 12:00	02:00	Drift test, transit to deployment start location							02:00
20-Jul-2013 12:00	21-Jul-2013 0:00	12:00	Deployment of Flanking Mooring A and verification							12:00
21-Jul-2013 0:00	21-Jul-2013 2:00	02:00	**Transit** to Profiler Mooring Site (2 hrs)		**Flanking Mooring A: 50.4676 N, 144.5174 W**	**Profiler Mooring: 50.1969 N, 144.7131 W**	18.5	1.85	**66.85**	02:00
21-Jul-2013 2:00	**21-Jul-2013 2:00**	**00:00**	**Arrive at Profiler Mooring Site**							00:00
21-Jul-2013 2:00	21-Jul-2013 8:00	06:00	Bathymetry survey							06:00
21-Jul-2013 8:00	22-Jul-2013 5:00	21:00	Clean deck, prepare for deployment, last system tests							21:00
22-Jul-2013 5:00	22-Jul-2013 8:00	03:00	drift test and transit to deployment start location							03:00
22-Jul-2013 8:00	23-Jul-2013 4:00	20:00	Deployment of Profiler Mooring and burn-in							20:00
23-Jul-2013 4:00	23-Jul-2013 6:00	02:00	**Transit** to Flanking Mooring B (2 hrs)		**Profiler Mooring: 50.1969 N, 144.7131 W**	**Flanking Mooring B: 50.1250 N, 144.2097 W**	**20**	**2**	**68.85**	02:00
23-Jul-2013 6:00	**23-Jul-2013 6:00**	**00:00**	**Arrive at Flanking Mooring B site**							00:00
23-Jul-2013 6:00	23-Jul-2013 8:00	02:00	bathymetry survey							02:00
23-Jul-2013 8:00	23-Jul-2013 11:00	03:00	prepare for deployment							03:00
23-Jul-2013 11:00	23-Jul-2013 12:00	01:00	Drift test, transit to deployment start location							01:00
23-Jul-2013 12:00	24-Jul-2013 0:00	12:00	Deployment of Flanking Mooring B and burn-in							12:00
24-Jul-2013 0:00	26-Jul-2013 0:00	48:00	Testing/verification of funcionality of array; (2) glider pick up							48:00
26-Jul-2013 0:00	**26-Jul-2013 0:00**	**00:00**	**End of operations, start transit back to Seattle**							00:00
26-Jul-2013 0:00	29-Jul-2013 6:00	78:00	**Transit** to Seattle		**Flanking Mooring B: 50.1250 N, 144.2097 W**	**UW dock: 47.651 N 122.314 W**	**780**	**78**	**146.85**	78:00
29-Jul-2013 6:00	29-Jul-2013 14:00	08:00	Harbor Transit					12		08:00
29-Jul-2013 14:00	29-Jul-2013 20:00	06:00	Stop at fuel pier for refueling					12		06:00
29-Jul-2013 20:00	30-Jul-2013 0:00	04:00	Continue Harbor Transit					12		04:00
30-Jul-2013 0:00	30-Jul-2013 0:00	00:00	**Arrive at UW dock, Washington**							**329:00**