

MOOS mooring system 10/23/02 meeting notes

Present: Carolyn, Tom, Tim, Duane T., John G., Andy, Ed M., Keith, Jon, Duane E., Mark C. (notes)

1. Schedule update. *Just under 6 weeks to deployment!*

Lance out October 25-Nov. 4.

Zorba out after October 26.

Andy Hamilton out Oct. 28-Nov. 7

Scott Jensen out Oct. 28-30

2. Budget update. *Budget tight but planned expenses protected.*

3. Special action items:

- Software integration and move to deployed hardware. *Controller still not operational after board failures of last week. CERF board still needs to be configured. Duane E. reports board spares situation under control. Power usage needs to be confirmed when controller back up and operational. GlobalstarRMI connection still a problem due to dynamic IP addressing. Drop-dead decision on using radio backup needs to be Oct. 28 to allow adequate build-up and test time for the switch. Need to purchase antenna to have on hand (Duane E.). Schedule for optimizing sampling to final rates and running end-to-end test is Oct. 30. End-to-end test coordinated with prototype archival system developed by SSDS is scheduled for Nov. 7 or 8.*
- Machine shop job status. *Shop quite busy, after termination CDR will determine shop workflow to have fabrication complete within 10 days (less preferable).*

4. Special action items:

- *Need to purchase antenna to have on hand (Duane E.).*
- *Forward test plan version used for NMC testing as model (Tom O.)*
- *C-channel pending for solar panels (Mike P.)*
- *Need hand winch for instrument cage (Mike P.)*
- *Notch bridle for strain gage (John F.)*
- *Order SST snubber bolts (Jon E.)*

5. Current task status:

ID	Task Name	Duration	Start	Finish	Resource Names	% Complete
1	Mooring test deployment	212 days	Mon 2/11/02	Tue 12/3/02		90%
28	power system housing fabrication <i>Expected from platers "any day now".</i>	15 days	Thu 9/5/02	Tue 10/22/02	shop[75%]	98%
30	layout and fab power system board <i>Carolyn ready to build up board. Has all parts (Board arrived 10:30AM).</i>	15 days	Tue 10/1/02	Thu 10/24/02	Mellinger Ed[20%],Duane Thompson[80%]	85%
31	assemble solar system housing and test <i>Duane working hard to complete wiring. Scheduled for Thursday or Friday to start functional testing.</i>	4 days	Thu 10/24/02	Wed 10/30/02	Mellinger Ed[50%]	0%
48	compass software driver <i>In test.</i>	10 days	Tue 8/20/02	Tue 10/22/02	Tom O'Reilly[50%]	95%
49	heave sensor software driver <i>In test.</i>	15 days	Fri 7/26/02	Tue 10/22/02	Rich Henthorn	95%
50	GPS software driver <i>In test.</i>	10 days	Tue 8/20/02	Tue 10/22/02	Kent Headley[50%]	95%
51	Globalstar modem software driver <i>Globalstar RMI connection still a problem due to dynamic IP addressing. Drop-dead decision on using radio backup needs to be Oct. 28 to allow adequate build-up and test time for the switch.</i>	15 days	Tue 8/20/02	Wed 10/23/02	Tim Meese[50%]	90%
52	Z-Star sampling software driver <i>In test.</i>	15 days	Tue 6/25/02	Tue 10/22/02	Mike Risi	95%
54	temporary controller final assembly, test and software integration <i>Controller still not</i>	16.67 days	Mon 9/9/02	Wed 10/23/02	McBride Lance[60%]	90%

operational after board failures of last week. CERF board still needs to be configured. Duane E. reports board spares situation under control. Power usage needs to be confirmed when controller back up and operational. Schedule for optimizing sampling to final rates and running end-to-end test is Oct. 30.

55	Controller and power system lab integration and test <i>Scheduled to start Oct. 30 - as soon as power housing is checked out. Need organized test plan, Tom O., will forward version used for NMC testing as model.</i>	5 days	Wed 10/30/02	Wed 11/6/02	Mellinger Ed[50%],Duane Thompson[50%],McBride Lance[50%],Kent Headley[25%]	0%
56	Move controller and power housing to mooring <i>Schedule is to move all electrical hardware to buoy Nov. 7. Critical milestone to maintain adequate pre-deployment test time.</i>	1 day	Wed 11/6/02	Thu 11/7/02	Mellinger Ed[50%],McBride Lance[50%],Duane Thompson[50%]	0%
60	riser cable termination socket design <i>In progress, Farley has section complete, Jon and Mark plan on finishing their sections tomorrow.</i>	8.33 days	Fri 4/19/02	Wed 10/23/02	Chaffey Mark[60%],Erickson Jon[60%]	80%
61	riser cable termination socket CDR <i>Planned for Thursday PM.</i>	0 days	Wed 10/23/02	Wed 10/23/02		0%
62	riser cable termination socket fabrication <i>After CDR fabrication will be organized to get all parts in 10 days or less.</i>	10 days	Wed 10/23/02	Wed 11/6/02	shop[75%]	0%
63	Test riser cable termination <i>Will be pull</i>	6 days	Wed 11/6/02	Thu 11/14/02	Chaffey Mark[50%]	0%

tested at TMT after fabrication to 12,000 lbs.

snubber hose fabrication *Fabrication starting tomorrow after last minute specification change by consultant.*

74	<i>Prediction that first hose will take two days, 3 additional hoses 1 day each. Plan to ship via motor truck to MBARI end of next week.</i>	87.5 days	Tue 6/25/02	Tue 10/29/02	94%
----	--	-----------	-------------	--------------	-----

snubber union/instrument cage assembly fabrication *In shop, scheduled for completion Nov. 15.*

76	<i>In shop, scheduled for completion Nov. 15.</i>	10.67 days	Tue 10/22/02	Tue 11/5/02	shop[75%]	0%
----	---	------------	--------------	-------------	-----------	----

coilcord fabrication *Jacket extruded on cable, coilcord winding scheduled for Oct. 28, then will be Fed Exed directly to SeaCon.*

79	<i>Jacket extruded on cable, coilcord winding scheduled for Oct. 28, then will be Fed Exed directly to SeaCon.</i>	6 days	Tue 10/22/02	Tue 10/29/02	50%
----	--	--------	--------------	--------------	-----

snubber electro-optical connectors delivery time *Estimated for two weeks after receiving cable. Have to stick to this schedule.*

80	<i>Estimated for two weeks after receiving cable. Have to stick to this schedule.</i>	151.5 days	Mon 4/22/02	Tue 11/19/02	87%
----	---	------------	-------------	--------------	-----

anchor system preliminary design *Deployment modeling complete.*

95	<i>Deployment modeling complete.</i>	9.5 days	Tue 8/20/02	Thu 10/24/02	Andrew Hamilton[60%],Chaffey Mark[60%]	79%
----	--------------------------------------	----------	-------------	--------------	--	-----

anchor system PDR *Will have anchor system PDR this afternoon.*

96	<i>Will have anchor system PDR this afternoon.</i>	0 days	Thu 10/24/02	Thu 10/24/02	Andrew Hamilton[50%],Chaffey Mark[50%]	0%
----	--	--------	--------------	--------------	--	----

anchor system final design *Pending Mike K. investigating deployment issues with triple-stack design.*

97	<i>Pending Mike K. investigating deployment issues with triple-stack design.</i>	3 days	Fri 10/25/02	Tue 10/29/02	Andrew Hamilton,Erickson Jon	0%
----	--	--------	--------------	--------------	------------------------------	----

98	anchor system CDR <i>Scheduled for week after Andy back from travel.</i>	0 days	Tue 10/29/02	Tue 10/29/02	Andrew Hamilton,Erickson Jon	0%
99	anchor system fabricate <i>Pending CDR. Material will be pre-staged to reduce fabrication time after CDR.</i>	8 days	Wed 10/30/02	Fri 11/8/02	shop[80%]	0%
102	Design and model test mooring configuration <i>Complete. Float position fixed. Calculations support anchor last free-fall deployment.</i>	43 days	Tue 8/20/02	Fri 10/25/02	Andrew Hamilton[20%],Chaffey Mark[60%]	93%
104	final assembly of surface float mechanical components <i>C-channel pending for solar panels from Mike P. Quite a few small brackets and similar items remain to be done. John F. can stick with fab. until done. Also need hand winch for instrument cage(Mike P.), notch bridle(John F.), order snubber bolts (Jon E.).</i>	10 days	Fri 9/20/02	Wed 10/23/02	Chaffey Mark[60%],Erickson Jon[60%],Mellinger Ed[60%],observatory support[200%],Etech[80%],Mtech[80%],shop[80%]	90%
105	Fabricate power system Hoffman boxes <i>Complete.</i>	1 day	Wed 10/16/02	Wed 10/23/02		90%
106	Wire mooring and tower <i>Status of list of wiring tasks?</i>	5 days	Thu 10/17/02	Tue 10/29/02	Chaffey Mark[60%],Kelley Mike,Mellinger Ed,observatory support,Etech[75%],Duane Thompson	20%
111	Prepare deployment plan <i>Pending.</i>	11 days	Wed 10/16/02	Wed 10/30/02	Kelley Mike[50%],Chaffey Mark[50%],Erickson Jon[5%],Andrew Hamilton[50%]	9%