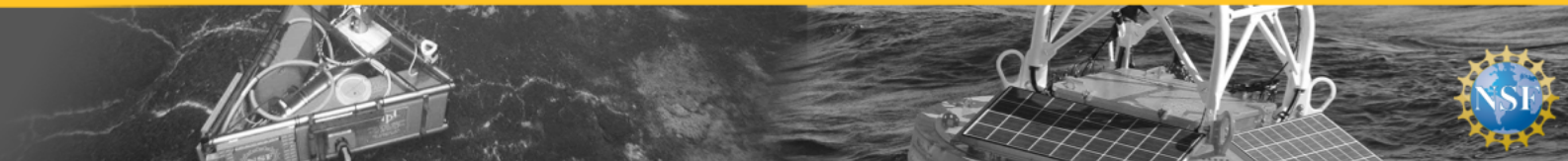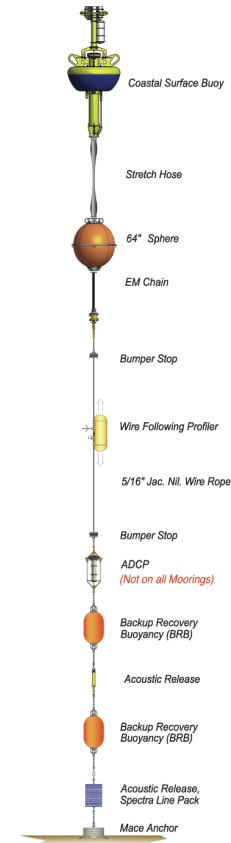# OOI
Coastal & Global Scale Nodes (CGSN)
Checklists

John Lund

Woods Hole Oceanographic Institution
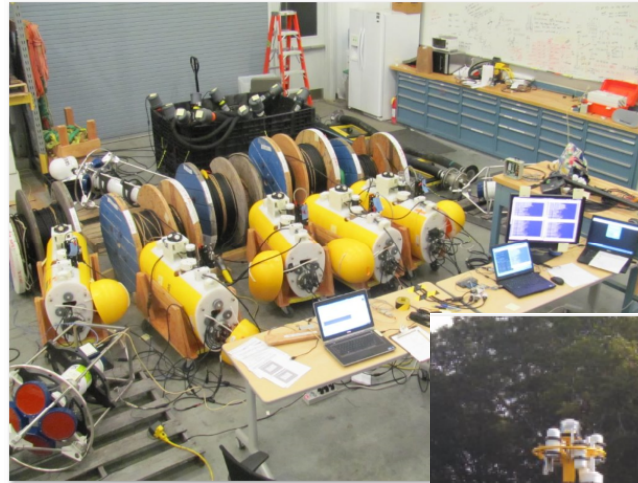
Problems

- Expensive ship time
- Cost of Failure: Very High
- What to put on a checklist
- What to test to ensure success

Coastal Surface Buoy

Stretch Hose

64" Sphere

EM Chain

Bumper Stop

Wire Following Profiler

5/16" Jac. Nil. Wire Rope

Bumper Stop

ADCP
(Not on all Moorings)

Backup Recovery Buoyancy (BRB)

Acoustic Release

Backup Recovery Buoyancy (BRB)

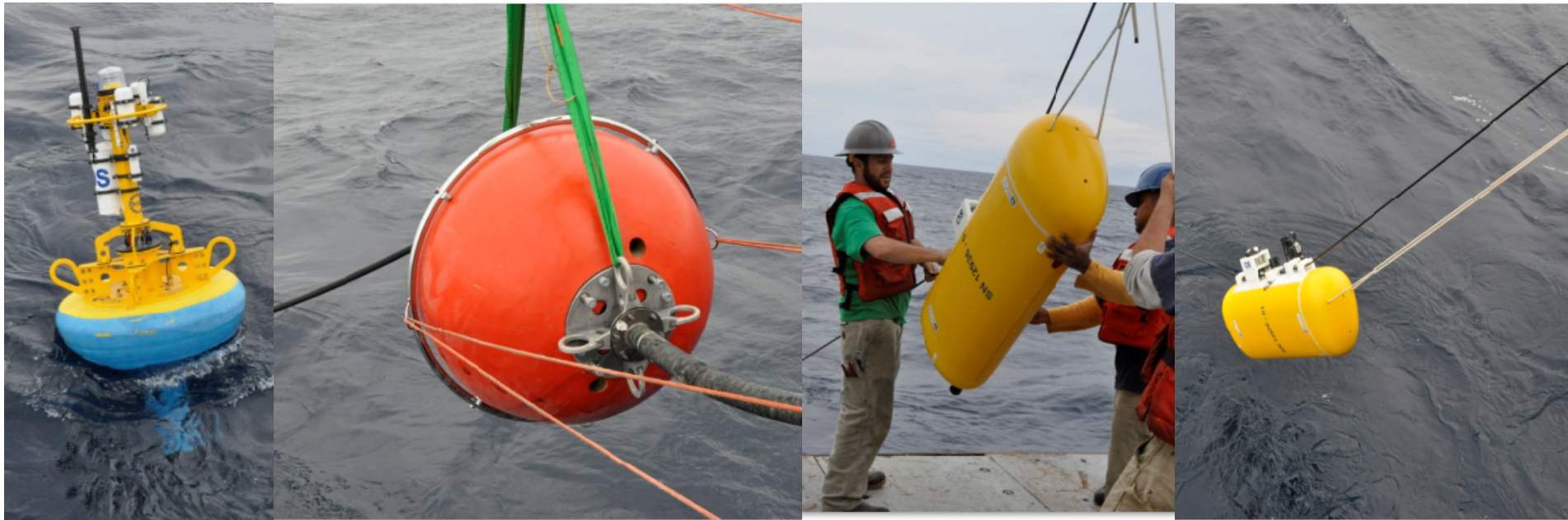Acoustic Release, Spectra Line Pack

Mace Anchor

Integration Testing

- Simulate deployment hardware configurations
- Full system check
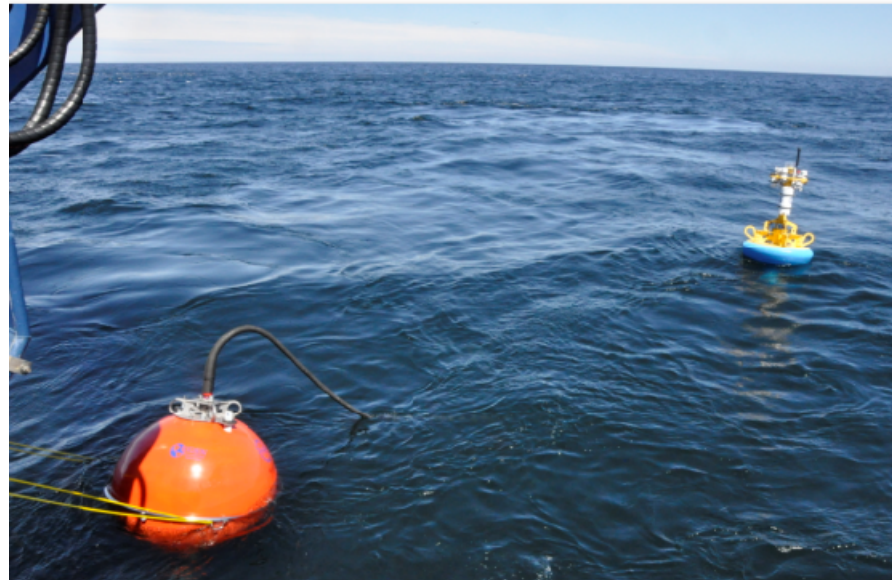
Profiler mooring deployment

Deployment Testing

Deployment
In water testing
- Telemetry testing
- Inductive line testing
- Post anchor drop:
    - Repeat telemetry and inductive testing
    - Confirm MMP schedule start

Failure

Solution
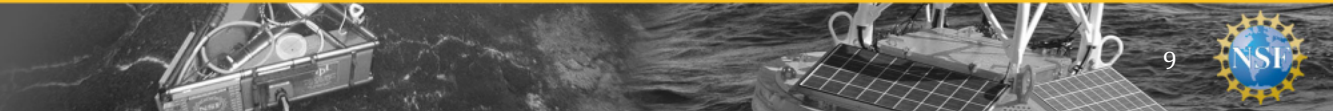- Add an item to the checklist to inspect the vacuum plug?

Yes but NO

Danger:
- Every mistake shows up on a checklist
- Checklists are grow to be too long
- Long checklists take a long time
- Steps can be missed

Solution

- Change the process
- Pull a vacuum in the buoy –> monitor internal pressure

STC Status - lu: 1.631

Up: 0 days 00:01:21	**Load:** 1.01 0.35 0.12	**Eflag:** 00000000	**Eflag2:** 00000000
Temp: 28.9 27.3 degC	**Humid:** 11.6%	**Press:** 10.3 psi	
GndFlt: 0.8 0.4 -0.8 2.0 ua	**Ldet:** 1245.0 1233.0 mv	**Enable:** gf=0f ld=03	
Main: 18.70 v 620.80 ma 11.61 w		wtc 0.00 wpc 12	

CPM Heartbeat: enable 1 dtime 125 threshold 2

Hotel1: wake 40 ir 0 2.3 39.1 0 fwwf 3 12.0 317.7 0 gps 1 sbd 0 0 pps 0 dcl 00 esw 0 dsl 0

Hotel2: eth0 1 eth1 0 fb1 0 fb2 0

Load Shed: ena 0 low 12 high 14 priority 5 shed:

Alarms:

Error Cnts:

DCL Alarms:

DCL Error Cnts:

No cpm.wake schedule: View: Wake Codes   Leak Detect

Fishing