

The day before deployment (on ship):

- Obtain current temperature, salinity, and density so that any changes to glider ballast can be made
- Remove cowling, remove oxygen sensor cover, place electrical tape over sensor (put a non-sticky piece of tape over the actual sensor, then tape it in place), and then replace the cowling

The day of deployment (on ship):

<b>STEP</b>	<b>ZODIAC CREW SAYS:</b>	<b>PILOT SAYS:</b>	<b>ACTION TAKEN:</b>
1			Zodiac crew (Z) calls pilot on iridium phone
2	We are on the deck of the ship.	What waypoint would you like us to send the glider to?	Z: look at map and tell pilot the waypoint number we should send the glider to

3	Please send the glider to waypoint X	I will prepare the goto_I10 file. Please stand by. I have prepared the goto file and it is ready to be loaded	P: prepare goto_I10.ma with initial waypoint
4	Pilot, are you ready for the green plug?	I am ready for the green plug	Z plugs in green plug, secures plug, and waits for comms (2 - 4 minutes)
5	Green plug is in	I have comms with the glider. I am checking the vacuum and the battery. Please stand by	Pilot (P): ^C, get m_vacuum, get m_battery

6		Vacuum is X, battery is Y. I am zeroing ocean pressure, sending the goto_l10 file, and running status.mi. Please stand by	P: zero_ocean_pressure, drag goto_l10.ma to "to glider" dockzr *.* run status.mi (5 - 7 minutes)
7		Status.mi completed successfully. The glider is ready to be deployed	
8	We are preparing to launch the Zodiac. We will call back when at the deployment location	I will have the glider hang up and call back in 15 minutes	Z travels to deployment site  P: callback 15

9			<p>P:  get m_vacuum  callback 5  (repeat as necessary  after first callback 15  until Z calls back)</p>
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At deployment location:

STEP	ZODIAC CREW SAYS:	PILOT SAYS:	ACTION TAKEN:
10			<p>Z: install wings and  secure screws</p>

11			<p>Z: install thruster</p> <ul style="list-style-type: none"><li>● Lube shaft</li><li>● Install thruster</li><li>● Secure magnetic screws on either side</li><li>● Apply Loctite to those screws</li><li>● Screw in aft screw</li></ul>
12			<p>Z: remove tape from optode</p>
13			<p>Z: attach 15 m fishing line and buoy to tail of glider</p>
14			<p>Z calls P on iridium phone</p>

15	We have prepared the glider for deployment		
16		Are the wings on the glider and secured?	
17	Roger wings		
18		Is the thruster on the glider and secured?	
19	Roger thruster		
20		Has the tape been removed from the optode?	
21	Roger optode		

22		Are the line and buoy attached to the glider?	
23	Roger line and buoy		
24	Pilot, are you ready for the glider to go in the water?	I am ready for the glider to go in the water	Glider goes in the water
25	Glider is in the water on buoy	I am zeroing ocean pressure and running status.mi in the water on buoy. Please stand by	P: zero_ocean_pressure run status.mi (5 - 7 minutes)

26		Status.mi completed normally. I am zeroing ocean pressure and running od5.mi . The glider should dive to five meters and abort. Please advise when the glider dives and surfaces	P: zero_ocean_pressure run od5.mi
27	Glider is diving		
28	Glider is at the surface		



29		I have comms. Glider aborted mission as expected for overdepth. You may remove the buoy from the glider	P: why?
30	Removing buoy. Please stand by		
31	Buoy has been removed		

32		<p>I am zeroing the ocean pressure and running the test mission deep.mi.  The glider should perform one dive to 60 m. This should take approximately 20 m. Please advise when the glider dives and surfaces. The glider should head toward waypoint X</p>	<p>P:  zero_ocean_pressure  run deep.mi</p>
33	Glider is diving		
34	Glider is at the surface		

35		I have comms. I am going to download two large files to check the glider and science data. Are we in a safe area for me to do this?	
36	We are. Please proceed	Downloading two files. Please stand by. This may take more than 30 minutes	<p>P: send -num=1 *.mbd *.nbd</p> <p>On data visualization page, plot CTD (sci_water_pressure) and m_pressure and ensure they match</p> <p>Plot m_depth, m_pitch, m_depth_rate_avg_final</p> <p>Plot some science sensors to make sure everything looks good</p>

37		I have downloaded the files and checked the data. The data look good. Are you ready to start the mission?	
38	Affirmative!	I am zeroing ocean pressure and sequencing the mission. Please advise when the glider dives	P: zero_ocean_pressure sequence 1k_n.mi(5)
39	Glider is diving. We are returning to the ship. We will call back and confirm we are safely on board		
40	We are safely on board. Peace out	Peace out	