

# Bluefin SandShark™ Pre-Dive Checklist

(To be completed at beginning of each dive or series of dives.)

Date:		Deployment:	
Ship:		AUV:	
Location:		Operator:	
<b>On-Deck Checkout: Mechanical Systems</b>			
<b>Item/Procedure</b>	<b>Readings</b>	<b>Specifications</b>	<b>Initials</b>
Shell		Fasteners tight	
Ortman keys		Installation checked	
Lift point		Installation checked	
Propeller retaining ring		Installation checked	
Duct		Fasteners tight, No sign of damage	
Vacuum port		Installation checked	
Altimeter		Installation checked	
Antenna		Fasteners tight	
Fins (x3)		Installation checked	
<b>On-Deck Checkout: Cables &amp; Connectors</b>			
<b>Item/Procedure</b>	<b>Readings</b>	<b>Specifications</b>	<b>Initials</b>
Cables		Visually inspected for damage	
Connectors		Visually inspected and checked tight	
Dummy plugs		Installation checked	
<b>On-Deck Checkout: Communications</b>			
<b>Communication link</b>	<b>IP address</b>	<b>Comms established?</b>	<b>Specifications</b>
Ethernet		Yes      No	Via payload connector
Wi-fi		Yes      No	Via "sandshark" network
<b>On-Deck Checkout: Apps (ROS)</b>			
<b>Item/Procedure</b>	<b>Readings</b>	<b>Specifications</b>	<b>Initials</b>
Rudder/elevator homing	Pass      Fail	Fins in homed position after vehicle power up	
Vehicle status lights	Pass      Fail	Only blue + green LEDs on = Pass; Red LED on = Fail	
Battery SOC	%	> 0%	
Battery voltage	V	>21V minimum.      >24V recommended.	
Internal pressure	kPa	Recorded	
Internal temperature	°C	Recorded	
Internal humidity	%RH	Recorded	
Navigation - GPS	Pass      Fail	Latitude/longitude correct to within 10m radius	
Navigation - orientation	Pass      Fail	Roll, pitch, and heading correct to within 5deg	
Payload			
<b>On-Deck Checkout: Mission Test</b>			
<b>Item/Procedure</b>	<b>Readings</b>	<b>Specifications</b>	<b>Initials</b>
Run user-defined test mission	Pass      Fail	Test mission planned and run in Planner/Dashboard	
Strobe	Pass      Fail	Command the strobe to flash in Dashboard	
Test mission abort	Pass      Fail	"Abort" mission in Dashboard	
<b>In-Water Checkout (if permitted by CONOPS)</b>			
<b>Item/Procedure</b>	<b>Readings</b>	<b>Specifications</b>	<b>Initials</b>
Vehicle status lights	Pass      Fail	Only blue + green LEDs on = Pass; Red LED on = Fail	
Ballast/trim	Pass      Fail	Vehicle floats level, ballast does not exceed +0.75 lbs	
Comms range		Vehicle replies	

Signature: \_\_\_\_\_