

SV3-121: SV3 Pre-Launch Checklist

SV3 Pre-Launch Checklist

Date	2016-10-04T21:49:14.416Z	Glider Name	SV3-1531399927(SV3-121)
Tech(s)	Cwahl	Organization	Mbari
Payload(s)	S1, s2, s3 and g1	Project	Beds/bin/ station m
Ship/Op Area	North east pacific	Location	Using GPSUblox declination=13.301942, failoverC

Software Information

Id	SV3-121, Running Regulus software version of 2015-12-01_16-50-31, production build 35
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Communication

Item/Procedure	Readings	Initials
WiFi Connection	WiFi is On	☒
Virtual Relay	ON. 0 queued msgs (Max=2147483647). Channel is WAITING.(no internet connectivity)	☒
WGMS Iridium	ON. 1 queued msgs (Max=1). Channel is ATTEMPTING. IMEI:300434060771430, consecutiveErrors=39, sessionE	☒
Vehicle telemetry received		☒
Tracker telemetry received	Battery (bars) 16.0 Report Rate 4hrs	☒

Configuration

Item/Procedure	Readings	Specifications	Initials
Topside RDF Frequency	N/a		☐
Hull RDF Frequency	N/a		☐
Tracker WGMS name	Spare sv3		☒
Drybox WGMS name	Tinytoo		☒
Float name	Tiny		☒
Glider name	Tiny		☒
Thruder Serial Number	2c001c	Last 6 digits of Hardware ID found on AMPS page	☒
Event definitions		Compare against standard list	☒
Vehicle and tracker op area defined		Note area name(s) and enable alarms	☒
Escalation list created/populated			☒

Vehicle Status

Item/Procedure	Readings	Initials
Battery [Wh] > 700 Wh	901.771	☒
Solar Power Indicators: > 0	8.107 0.0 5.342	☒

Item/Procedure	Readings				
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x333451153936383700260039 On=Y	OK	23.2	115.1	Uptime: 0 days, 01:33:52	☒
Domain_Name=Thrudder, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y	OK	18.9	154.3	Uptime: 0 days, 01:26:33	☒
Domain_Name=PyldInt-0x3332470932363032002b0025, Node=5, HW_SerNum=0x3332470932363032002b0025 On=Y	OK	19.9	119.5	Uptime: 0 days, 00:01:36	☒

Mechanical Checks

	Item/Procedure	Specifications	Initials
Float	Wet-mates connected/lubed	3M Silicone Lubricant Spray: 3M ID No. 62-4678-4930-3	☒
	Connector covers secure		☒
	Drybox secure	Wiggle test	☒
	Contact info secure		☒
	Hull	Free of cracks and dings	☒
	Skeg/Fin	Secure	☒
Sub	Hardware secure		☒
	Umbilical visual inspection	Free of voids/defects	☒
	Roll pins inserted	Flushed with surface	☒
	Wings	Hardware secure with Loctite and Lock Nuts	☒
	Thrudder	Hardware secure	☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	Initials
Thruster Spin	449.0	Spins freely, slow and fast speeds	☒
Rudder Range of Motion		Rudder moves freely and smoothly	☒
Rudder right, left, center	Rudder(2016-10-04T21:49:09.873Z,desiredHeading=281.3,compass=31.8,rack=-12.9,post=-9.1)	Right, Left, Center	☒
Thrudder Compass Correction	Thrudder compass is NOT corrected		☒
Fixed heading test (spin)	180	Avoidance Off, Note Heading Used	☒
Waypoint course test (spin)		Avoidance Off, Note Waypoint Course Used	☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0	Catch release buoy by hand	☒
Octopus Cable 01	OK	Must Pass	☒
Octopus Cable 02	OK	Must Pass	☒
AIS Status	MMSI 367766000 (WESTERN FLYER). Pos=36.802400, -121.786953. t=33:0:UNDERWAY_ENGINE, 2016-10-04T21:49:09.873Z	If in harbor, must see MMSI	☒
Photo Document			☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications
WX reporting	Temp=12.6°C, Press=1033.2mb, Wind Speed=7.82kn, Wind Dir=306.4°. Heading=35.6°
UBLOX GPS	At [36.80234883, -121.78717383] @ 2016-10-04T21:49:13Z, quality=100
Airmar GPS	At [36.80232667, -121.78715833] @ 2016-10-04T21:49:08.400Z, quality=80
Torpedo GPS	At [36.80234800, -121.78718588] @ 2016-10-04T21:49:10Z, quality=65
Water speed readings	Out of the water; Unknown speed; Not yet running
Obstacle Avoidance Status	Disabled
RDF beacon tested w/receiver	
Check alarms	"Out of bounds" red. All yellow/green

Comments

S1 hotspot, s2 ctd plus do, s3 pco2 plus pH and g1 ecopuck installed.

Motion isolator guides starting to fail/show wear, replace

Technician Signature:

Note: Once vehicle is launched the following tasks must be completed

1. Clear alarms
2. Log vehicle modifications in notebook
3. Vehicle on mission
4. Create *LAUNCHED* comment into WGMS
5. Upload photos to gallery website with album name: *YYYY-MM-DD VehicleName*