

SV3-132: SV3 Pre-Launch Checklist

SV3 Pre-Launch Checklist

Date	2018-11-05T23:09:40.494Z	Glider Name	SV3-199056737(SV3-132)
Tech(s)	cwahl	Organization	MBARI
Payload(s)	g2, EK80	Project	Acoustics testing
Ship/Op Area	Paragon MB	Location	Using GPSUblox declination=13.084621, faild

Software Information

Id	SV3-132, sn=199056737, Running Regulus 1.1.1, software version of 2016-08-24T17:05:27Z, produ
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Communication

Item/Procedure	Readings	Initials
WiFi Connection	WiFi is On	☒
Virtual Relay	ON. 0 queued msgs (Max=2500). Channel is TALKING.(94/99 success rate) sleepTime=60000 pack	☒
WGMS Iridium	ON. 0 queued msgs (Max=1). Channel is TALKING. IMEI:300434060796780, consecutiveErrors=0,	☒
Vehicle telemetry received		☒
Tracker telemetry received	Battery (bars)15.8 volts Report Rate4 hrs	☒

Configuration

Item/Procedure	Readings	Specifications	Initials
Topside RDF Frequency	n/a		☐
Hull RDF Frequency	n/a		☐
Tracker WGMS name	MBARI Spare XEOS tracker		☒
Drybox WGMS name	Sparky		☒
Float name	Sparky		☒
Glider name	Sparky v200		☒
Thrudder Serial Number	280044	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	926.495	☒
Solar Power Indicators: > 0	10.871 0.0 13.452 14.49	☒

Item/Procedure	Readings				Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	
Domain_Name=Host, Node=1, HW_SerNum=0x3334510630303735002f001d On=Y	OK	29.3	110.6	Uptime: 5 days, 23:56:39	☒
Domain_Name=Thrudder-2, Node=5, HW_SerNum=0x343747033038363800280044 On=Y	OK	37.2	235.3	Uptime: 5 days, 23:51:59	☒
Domain_Name=PydInt-0x3333470c383233380023002e, Node=7, HW_SerNum=0x3333470c383233380023002e On=Y	OK	25.4	114.0	Uptime: 0 days, 00:13:10	☒

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	☒
	Thruder	Hardware secure	☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	Initials
Thruster Spin	435.0	Spins freely, slow and fast speeds	☒
Rudder Range of Motion		Rudder moves freely and smoothly	☒
Rudder right, left, center	Rudder(2018-11-05T23:09:37.047Z,desiredHeading=257.3,compass=309.7,rack=-15.9,post=-14.6ru	Right, Left, Center	☒
Thruder Compass Correction	Thruder compass is NOT corrected		☒
Fixed heading test (spin)	180	Avoidance Off, Note Heading Used	☒
Waypoint course test (spin)	41	Avoidance Off, Note Waypoint Course Used	☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0	Catch release buoy by hand	☒
Octopus Cable 01	Failure	Must Pass	☒
Octopus Cable 02	OK	Must Pass	☒
AIS Status	MMSI 367554530 (DULCINEA). Pos=36.801533, -121.784547. t=36:0:NOT_DEFINED, 2018-11-05	If in harbor, must see MMSI	☒
Photo Document			☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Init
WX reporting	Temp=NaN°C, Press=1010.8mb, Wind Speed=3.17kn, Wind Dir=266.6°. Heading=297.2°	☒
UBLOX GPS	2018-11-05T23:09:47Z@36.802294,-121.7870725, lastRx=0.632s, quality=100, clockDt=0.776s	☒
Airmar GPS	2018-11-05T23:09:47Z@36.8023067,-121.7870767, lastRx=0.461s, quality=80, clockDt=0.783s	☒
Torpedo GPS	2018-11-05T23:09:40Z@36.8023135,-121.7870638, lastRx=7.354s, quality=65, clockDt=7.788s	☒
Water speed readings	Out of the water; Unknown speed; No NMEA sentences seen yet, powerState=ON, ampsPower=true, Requested by: pilotRequest	☒
Obstacle Avoidance Status	Enabled	☒
RDF beacon tested w/receiver		☐
Check alarms	"Out of bounds" red. All yellow/green	☒

Comments

G2 with float and sub GPCTD plus D0
Internally logging EK80 with new larger transducer, (hull mounted)
v200 glider and Sparky's thruder was just serviced for RMA work.

Technician Signature: cwahl

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*

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