



SV3-132: SV3 Pre-Launch Checklist

SV3 Pre-Launch Checklist

Date	2018-11-13T22:35:40.356Z	Glider Name	SV3-199056737(SV3-132)
Tech(s)	cwahl	Organization	MBARI
Payload(s)	s3, g1 and g2	Project	JRF
Ship/Op Area	Paragon MB	Location	Using GPSUblox declination=13.08061

Software Information

Id	SV3-132, sn=199056737, Running Regulus 1.1.1, software version of 2016-08-24T1
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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.(50/58 success rate) sleepTin	☒
WGMS Iridium	ON. 0 queued msgs (Max=1). Channel is TALKING. IMEI:300434060796780, consec	☒
Vehicle telemetry received		☒
Tracker telemetry received	Battery (bars) 15.3 Report Rate 4 hrs	☒

Configuration

Item/Procedure	Readings	Specifications	Initials
Topside RDF Frequency	n/a		☐
Hull RDF Frequency	n/a		☐
Tracker WGMS name	MBARI spare tracker		☒
Drybox WGMS name	Sparky		☒
Float name	Sparky		☒
Glider name	v200 Sparky		☒
Thruder 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	630.488	☒
Solar Power Indicators: > 0	8.262 0.0 1.892 11.392	☒

Item/Procedure	Readings				
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x3334510630303735002f001d On=Y	OK	22.9	107.3	Uptime: 0 days, 00:31:50	☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x343747033038363800280044 On=Y	OK	20.9	202.5	Uptime: 0 days, 00:26:36	☒
Domain_Name=Unknown-0x3333511437333030003c002d, Node=4, HW_SerNum=0x3333511437333030003c002d On=Y	OK	19.4	111.2	Uptime: 0 days, 00:16:35	☒
Domain_Name=PyldInt-0x3333470c383233380023002e, Node=6, HW_SerNum=0x3333470c383233380023002e On=Y	OK	20.2	111.4	Uptime: 0 days, 00:02:41	☒

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	443.0	Spins freely, slow and fast speeds	☒
Rudder Range of Motion		Rudder moves freely and smoothly	☒
Rudder right, left, center	Rudder(2018-11-13T22:35:36.419Z,desiredHeading=318,compass=8,rack=-12.9,po	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 366966550 (OCEAN ANGEL 2). Pos=36.804883, -121.785000. t=30:0:NOT_D	If in harbor, must see MMSI	☒
Photo Document			☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Initials
WX reporting	Temp=16.9°C, Press=1027.0mb, Wind Speed=2.98kn, Wind Dir=229.8°. Heading=29.0°	☒
UBLOX GPS	2018-11-13T22:35:46Z@36.802292,-121.7868212, lastRx=0.454s, quality=100, clockDt=0.705s	☒
Airmar GPS	2018-11-13T22:35:45.700Z@36.8023,-121.7868417, lastRx=0.611s, quality=80, clockDt=1.005s	☒
Torpedo GPS	2018-11-13T22:35:38Z@36.802316,-121.7868418, lastRx=8.258s, quality=65, clockDt=8.706s	☒
Water speed readings	Out of the water; Unknown speed; Not yet running, powerState=OFF, ampsPower=false	☒
Obstacle Avoidance Status	Enabled	☒
RDF beacon tested w/receiver		☒
Check alarms	"Out of bounds" red. All yellow/green	☒

Comments

S3 JRF Microscope
G1 APU
G2 Float/sub GPCTD plus DO and Ecopuck
Firefox cant handle recovery device menu

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: YYYYMM-DD VehicleName