

SV3-172: SV3 Pre-Launch Checklist

Readme

SV3 Pre-Launch Checklist

Date	2023-11-29T20:02:30.423Z	Glider Name	SV3-1993437788(SV3-172)
Tech(s)	cwahl	Organization	MBARI
Project	Front Tracking testing	Ship/Op Area	Paragon MB

Software Information

Regulus Version	SV3-172, sn=1993437788, Running Regulus 1.1.3, software version of 2017-09-28T01:02:25Z, production build 32
Plugins	Running: AirmarWeather, LogAlarmReporter, ThrusterAdjuster Not running: GPSasRudderCompass, Leopard_Camera_1_3_2, Leopard_Camera_1_3_3

Communication

Item/Procedure	Readings	Comments	Initials
WiFi Connection	WiFi is On		☒
Virtual Relay	ON. 0 queued msgs (Max=2500). Channel is WAITING.(no internet connectivity)	Still not working...	☐
WGMS Iridium	ON. 0 queued msgs (Max=1). Channel is TALKING. IMEI:300434061745310, consecutiveErrors=0, sessionErrors=12, writeErrors=0, readErrors=0, 10min ss avg=4.295602		☒
Vehicle telemetry received	[virtualRelay, iridiumModem], Last Command: Read 12638 bytes of file 76D1725CGZP (seek=0). Have 335 blocked messages., averageMessageQueueRate=3.410s		☒
Location	Using GPSUblox declination=12.546317, failoverCounter=1, timeLastSwitchedGps=2023-11-29T17:55:03Z, clockDt=2.494s		☒
Tracker telemetry received	Battery (bars)	15.6 volts	☒
	Report Rate	4 hours	☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	MBARI Spare Tracker 2			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	SV3-172			☒
Float name	Dev Wave Glider v100			☒
Glider name	Dev Wave Glider v100			☒
Umbilical Length	4 m			☒
G1	SMC-2 payload with cell and Iridium			☒
G2	WetWifi Payload		No Oceancomms modem installed, not ready...	☒
G3	SMC-1 science payload with GPCTD			☒
T1				☐
D1				☐
S1	Hotspot 2 with MF DAT			☒
S2				☐
S3				☐
S4	Airmar			☒
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	Comments	Initials
Battery [Wh] > 700 Wh	686.043		☒
Solar Power Indicators: > 0	14.028 0.0 23.003 24.253		☒

Item/Procedure	Readings					Initials
Domain Info	AMPS Hardware	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	

	Status					
Domain_Name=Host, Node=1, HW_SerNum=0x333551053353639004f0056 On=Y	OK //	25.2 //	116.4 //	Uptime: 0 days, 02:11:31 //		☒
Domain_Name=Thrudder-1, Node=3, HW_SerNum=0x3334511039353736005e0034 On=Y	OK //	32.8 //	200.1 //	Uptime: 0 days, 02:06:57 //		☒
Domain_Name=PyldInt-0x5030501420333933004b0033, Node=6, HW_SerNum=0x5030501420333933004b0033 On=Y	OK //	21.7 //	112.5 //	Uptime: 0 days, 00:08:56 //		☒
Domain_Name=PyldInt-0x474850072038384d00380051, Node=8, HW_SerNum=0x474850072038384d00380051 On=Y	OK //	21.1 //	109.3 //	Uptime: 0 days, 00:08:18 //		☒

Mechanical Checks

	Item/Procedure	Specifications	Comments	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		☒
	Umbilical ribbon cable inspection			☒
	Roll pins inserted	Flush with surface		☒
	Wings	Hardware secure with Loctite and Lock Nuts		☒
	Thrudder	Hardware secure		☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	Comments	Initials
Thruster Spin	453.0	Spins freely, slow and fast speeds //		☒
Rudder Range of Motion		Rudder moves freely and smoothly //		☒
Rudder right, left, center	Rudder(2023-11-29T20:02:27.853Z,desiredHeading=269.2,compass=283.1,rack=-9.1,post=-36.2rudderSt	Right, Left, Center //		☒
Thrudder Compass Correction	Thrudder compass is NOT corrected //	recommended NOT corrected //		☒
Fixed heading test (spin)	180	Avoidance Off, Note Heading Used //		☒
Waypoint course test (spin)	36.797, -121.847	Avoidance Off, Note Waypoint Course Used //		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=30s //	Catch release buoy by hand //		☒
Octopus Cable 01	OK //	Must Pass //		☒
Octopus Cable 02	OK //	Must Pass //		☒
AIS Status	MMSI 368210930 (SUMAC). Pos=36.802530, -121.785667. t=37:0:NOT_DEFINED, 2023-11-29T20:02:16.022Z //	If in harbor, must see MMSI //		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=16.4°C, Press=1014.8mb, Wind Speed=1.44kn, Wind Dir=63.0°. Heading=23.8° //		☒
UBLOX GPS	2023-11-29T20:02:32Z@36.802371,-121.7868135,lastRx=0.804s,quality=100,clockDt=2.405s,failCount=0,ggaQCount:2=300,numSat:sma=10.62,std=0.49,min=9.00,max=11.00,hdop:sma=0.81,std=0.04,min=0.79,max=0.95,altitude:sma=1.10,std=0.82,min=-0.60,max=2.80 //		☒
Airmar GPS	2023-11-29T20:02:32.600Z@36.8023517,-121.7868067,lastRx=0.118s,quality=80,clockDt=1.873s,failCount=0,ggaQCount:1=68,numSat:sma=5.94,std=1.24,min=3.00,max=8.00,hdop:sma=1.44,std=0.68,min=1.00,max=5.10,altitude:sma=0.37,std=13.58,min=-7.00,max=55.30 //		☒
Torpedo GPS	Not Available! //		☒
Water speed readings	Out of the water; Unknown speed; Not yet running, powerState=OFF, ampsPower=false, powerThreadActive=false //		☒
Obstacle Avoidance Status	Disabled //		☒
Check alarms	"Out of bounds" red. All yellow/green //		☒

General Comments

Here we go!

Technician Signature: cwah1

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*

Submit

Print

Clear User Input