

SV3 Pre-Launch Checklist

Date	2024-05-14T17:27:27.066Z	Glider Name	SV3-16977098 (SV3-034)
Tech(s)	cwahl	Organization	MBARI
Project	MBTS	Ship/Op Area	Paragon MB

Software Information

Regulus Version	SV3-034, sn=16977098, Running Regulus 3.2.2, software version of 2019-12-03T23:58:34Z, production build 35, sv3, SOMDM3730-30-1880AKIR-A, (1.2.3) secure
Plugins	Running: AirmarWeather, GPSasRudderCompass, LogAlarmReporter, RudderParametersManager, ThrusterAdjuster Not running: PortForwarder

Communication

Item/Procedure	Readings	Comments	Initials
WiFi Connection	WiFi is On		☒
Virtual Relay	0 queued msgs state=WAITING, sent=0, received=0, powerState=ON (18h22m33.700s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false (no internet connectivity)	Still not working	☐
WGMS Iridium	IMEI:30043406000860, starts=1, r=3, w=908, sessionAttempts=1059, sessionErrs=148, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=3.9 (i=5), 0 queued msgs state=TALKING, sent=908, lastTx=3m18.712s, avgTxSize=137.6B, totalTx=117.914kB, received=3, lastRx=17h34m29.404s, totalRx=0.117kB, powerState=ON (18h22m7.522s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]0 blocked messages, totalMessagesDiscarded=245, averageMessageQueueRate=51.341s, sent=908, totalBytesSent=117.914kB, received=3, totalBytesReceived=0.117kB, lastRx=17h34m29.439s, ProtobufMessageHandler[header=BB,header=BC,active=true, #accepted=0, #handled=0],ProtobufMessageHandler[header=BB,header=BC,active=true, #accepted=0, #handled=0],secureComms[header=A9,active=true, #accepted=0, #handled=0],WGMSCommandHandler[header=0A,active=true, #accepted=3, #handled=3, lastRx=rx=2024-05-		☒
Location	Using GPSUblox, declination=12.591084, failoverCounter=1, timeLastSwitchedGps=2024-05-13T23:07:03Z, clockDt=3.744s		☒
Tracker telemetry received	Battery (Volts) Report Rate	15.9 volts 4 hours	☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Hansen Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	CCU SV3-034 Wave Glider Hansen		Renamed in WGMS	☒
Float name	Hansen			☒
Glider name	Hansen			☒
Umbilical Length	4m			☒
G1				☐
G2				☐
G3	JRF APU			☒
T1				☐
D1				☐
S1				☐
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
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Battery [Wh] > 700 Wh	1580.413		☒
Solar Power Indicators: > 0	19.33 0.0 20.875 20.379		☒

Item/Procedure	Readings					
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x3332470b32363032001e0022 On=Y	OK	19.9	111.8	Uptime: 0 days, 18:25:09		☒
Domain_Name=Bat-0x33324703313238340031002d, Node=3, HW_SerNum=0x33324703313238340031002d On=Y	OK	18.0	109.0	Uptime: 0 days, 18:24:20		☒
Domain_Name=Thrudder-2, Node=4, HW_SerNum=0x3437470330383638001f0033 On=Y	OK	15.0	271.9	Uptime: 0 days, 18:18:20		☒

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	Inspect, note condition		☒
	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, lock nuts, and seizing wire		☒
	Thrudder	Hardware secure		☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	Comments	Initials
Thruster Spin	0.0	Spins freely, slow and fast speeds	forgot to load webpage with thruster on, thruster operational	☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2024-05-14T17:27:26.782Z,desiredHeading=351,compass=16,rack=-14.9,post=-14.3rudderStatus	Right, Left, Center		☒
Thrudder Compass Correction	Thrudder compass is corrected	recommended NOT corrected	LR says that this is okay	☒
Fixed heading test (spin)	180	Avoidance Off, Note Heading Used		☒
Waypoint course test (spin)	81	Avoidance Off, Note Waypoint Course Used		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m30s, powerState=OFF (18h20m8.446s), ampsPower=false, powerThreadActive=false	Catch release buoy by hand		☒
Octopus Cable 01	OK	Must Pass		☒
Octopus Cable 02	OK	Must Pass		☒
AIS Status	lastSeen=MMSI 367742810 (JOHN H MARTIN). Pos=36.804025, -121.786143. t=37:0:NOT_DEFINED, 2024-05-14T17:27:26.393Z, lengthErrs=3, latlonErrs=0, broadcastCount=13030, lastRx=4.329s, numberObserved=12, averageRxRateMillis=1.0925,	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=12.8°C, Press=1015.3mb, Wind Speed=2.69kn, Wind Dir=265.4°. Heading=145.8°		☒
UBLOX GPS	2024-05-14T17:27:35Z@36.8023685,-121.7871813,lastRx=0.219s, quality=100, timeout=1m, nmeaValid=true, clockDt=4.249s, lastValidFix=2024-05-14T17:27:35Z@36.8023685,-121.7871813, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=10.98,std=0.13,min=10.00,max=11.00,n=300,hdop:sma=0.91,std=0.00,min=0.90,max=0.91,n=300,altitude:sma=1.06,std=0.79,min=-0.50,max=2.70		☒
Airmar GPS	2024-05-14T17:27:34.610Z@36.8023867,-121.7871633,lastRx=0.496s, quality=80, timeout=5m, nmeaValid=true, clockDt=3.846s, lastValidFix=2024-05-14T17:27:34.610Z@36.8023867,-121.7871633, gpsWatchdogFailureCounter=0, ggaQCount:1=300,numSat:sma=9.93,std=0.26,min=9.00,max=10.00,n=300,hdop:sma=0.81,std=0.03,min=0.80,max=1.00,n=300,altitude:sma=5.16,std=0.40,min=4.60,max=6.30,n=300		☒
Torpedo GPS	Not Available!		☒
Water speed readings	Unknown speed; ncc=0, nci=0, tec=0, aip=0.00		☒
Obstacle Avoidance Status	Disabled		☒
Check alarms	*Out of bounds* red. All yellow/green		☒

General Comments

Nothing to report!

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*

Submit

Print

Clear User Input