

Readme

SV3 Pre-Launch Checklist

Date	2024-01-17T22:03:52.516Z	Glider Name	SV3-1338599832 (SV3-006)
Tech(s)	cwahl	Organization	MBARI
Project	Bioacoustics	Ship/Op Area	Paragon MB

Software Information

Regulus Version	SV3-006, sn=1338599832, 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, LogAlarmReporter, RudderParametersManager, ThrusterAdjuster Not running: GPSasRudderCompass

Communication

Item/Procedure	Readings	Comments	Initials
WiFi Connection	WiFi is On		☒
Virtual Relay	0 queued msgs state=WAITING, sent=0, received=0, powerState=ON (3h31m54.219s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false (no internet connectivity)	Still not working	☐
WGMS Iridium	IMEI:300434060022730, starts=1, r=2, w=221, sessionAttempts=241, sessionErrs=18, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=3.4 (i=3), 0 queued msgs state=TALKING, sent=221, lastTx=9.121s, avgTxSize=109.6B, totalTx=25.727kB, received=2, lastRx=3h9m22.006s, totalRx=0.076kB, powerState=ON (3h31m27.579s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]241 blocked messages, totalMessagesDiscarded=1, averageMessageQueueRate=1m10.214s, sent=221, totalBytesSent=25.727kB, received=2, totalBytesReceived=0.076kB, lastRx=3h9m22.012s, 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=2, #handled=2, lastRx=rx=2024-01-17T18:34:03Z, clockDt=2.370s		☒
Location	Using GPSUblox, declination=12.621735, failoverCounter=1, timeLastSwitchedGps=2024-01-17T18:34:03Z, clockDt=2.370s		☒
Tracker telemetry received	Battery (Volts)	15.7 volts	☒
	Report Rate	4 hours	☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Hansen Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	SV3-006 PASITHEE			☒
Float name	WG Hansen			☒
Glider name	WG 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	1256.402	//	Charging vehicle before deployment	//	☒
Solar Power Indicators: > 0	13.609	//			
	0.0	//			
	15.096	//			☒
	15.193	//			

Item/Procedure	Readings						
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments		Initials
Domain_Name=Host, Node=1, HW_SerNum=0x3332471430393232001a0024 On=Y	OK	28.0	116.5	Uptime: 0 days, 03:33:10			☒
Domain_Name=Bat-0x33324703313238340031002d, Node=3, HW_SerNum=0x33324703313238340031002d On=Y	OK	25.4	112.5	Uptime: 0 days, 03:28:12			☒
Domain_Name=Thrudder-2, Node=4, HW_SerNum=0x3437470330383638001f0033 On=Y	OK	24.9	305.6	Uptime: 0 days, 03:25:57			☒

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	458.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2024-01-17T22:03:52.136Z,desiredHeading=144.6,compass=119.5,rack=11.5,post=12.6rudderSta	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 (3h29m24.156s), 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 368159560 (NOVA). Pos=36.802153, -121.784885. t=37:0:NOT_DEFINED, 2024-01-17T22:03:34.092Z, lengthErrs=0, latlonErrs=0, broadcastCount=957, lastRx=21.400s, numberObserved=9, averageRxRateMillis=4.771s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=15.1°C, Press=1016.5mb, Wind Speed=1.64kn, Wind Dir=196.1°. Heading=156.3°		☒
UBLOX GPS	2024-01-17T22:03:58Z@36.8022857,-121.7870907,lastRx=0.109s, quality=100, timeout=1m, nmeaValid=true, clockDt=2.465s, lastValidFix=2024-01-17T22:03:58Z@36.8022857,-121.7870907, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=12.00,std=0.00,min=12.00,max=12.00,n=300,hdop:sma=0.86,std=0.00,min=0.85,max=0.86,n=300,altitude:sma=0.93,std=0.57,min=-0.40,max=2.10		☒
Airmar GPS	2024-01-17T22:03:57.690Z@36.8022917,-121.7871083,lastRx=0.307s, quality=80, timeout=5m, nmeaValid=true, clockDt=2.122s, lastValidFix=2024-01-17T22:03:57.690Z@36.8022917,-121.7871083, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=11.00,std=0.00,min=11.00,max=11.00,n=300,hdop:sma=1.00,std=0.00,min=1.00,max=1.00,n=300,altitude:sma=1.60,std=0.29,min=0.90,max=2.10,		☒
Torpedo GPS	Not Available!		☒
Water speed readings	Unknown speed; ncc=0, nci=0, tec=0, aip=0.00		☒
Obstacle Avoidance Status	Enabled		☒
Check alarms	*Out of bounds" red. All yellow/green		☒

General Comments

First mission of 2024!

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