

SV3 Pre-Launch Checklist

Date	2023-12-19T23:39:36.791Z	Glider Name	SV3-466563798 (SV3-110)
Tech(s)	cwahl	Organization	MBARI
Project	WetWiFi	Ship/Op Area	Paragon MB

Software Information

Regulus Version	SV3-110, sn=466563798, 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, PortForwarder, RudderParametersManager, ThrudderDiagnosticsFixer, ThrusterAdjuster

Communication

Item/Procedure	Readings	Comments	Initials
WiFi Connection	WiFi is On		☒
Virtual Relay	0 queued msgs state=WAITING, sent=0, received=0, powerState=OFF (1d4h37m26.381s), virtualDevice=true, powerThreadActive=false (no internet connectivity)		☐
WGMS Iridium	IMEI:300434060354880, starts=1, r=4, w=783, sessionAttempts=2858, sessionErrs=2074, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.6 (i=5), 1 queued msgs state=TALKING, sent=783, lastTx=4.855s, avgTxSize=152.8B, totalTx=97.287kB, received=4, lastRx=1d4h33m0.753s, totalRx=0.133kB, powerState=ON (1d4h37m2.609s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]674 blocked messages, totalMessagesDiscarded=6634, averageMessageQueueRate=23.512s, queueDumpCounter=13, sent=783, totalBytesSent=97.287kB, received=4, totalBytesReceived=0.133kB, lastRx=1d4h33m0.897s, 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=4, #handled=4, lastRx=rx=2023-12-		☒
Location	Using GPSUblox, declination=12.629722, failoverCounter=1, timeLastSwitchedGps=2023-12-18T19:04:27Z, clockDt=3.673s		☒
Tracker telemetry received	Battery (Volts) Report Rate	16.0 Volts 4 hours	☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Tiny Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	SV3-110 Hansen replacement			☒
Float name	Tiny Copper			☒
Glider name	Tiny v150			☒
Umbilical Length	4m			☒
G1	Ecopuck			☒
G2	WetWiFi payload			☒
G3				☐
T1	Oceancomms modem			☒
D1				☐
S1	Hotspot 3 with MF DAT			☒
S2	GPCTD plus DO			☒
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				☒

Item/Procedure	Readings	Comments	Initials
Battery [Wh] > 700 Wh	900.274 //		☒
Solar Power Indicators: > 0	2.655 // 0.0 // 2.388 // 2.872 //		☒

Item/Procedure	Readings				Comments	Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime		
Domain_Name=Host, Node=1, HW_SerNum=0x32385119353634330055004a On=Y	OK //	24.6 //	115.7 //	Uptime: 1 day, 04:41:40 //		☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x47485005203834d0057002b On=Y	OK //	17.6 //	258.2 //	Uptime: 1 day, 04:34:19 //		☒

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		☒
	Thruder	Hardware secure		☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	Comments	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(2023-12-19T23:39:37.257Z,desiredHeading=236.8,compass=212,rack=11.5,post=13.1rudderStatu	Right, Left, Center		☒
Thruder Compass Correction	Thruder 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)	41	Avoidance Off, Note Waypoint Course Used		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m30s, powerState=OFF (1d4h35m7.660s), 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 338415000 (unnamed). Pos=36.794210, -121.910780. t=0:0:UNDERWAY_ENGINE, 2023-12-19T23:39:44.494Z, lengthErrs=0, latlonErrs=0, broadcastCount=12148, lastRx=5.987s, numberObserved=12,	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=14.0°C, Press=1005.8mb, Wind Speed=11.52kn, Wind Dir=238.8°. Heading=196.3° //		☒
UBLOX GPS	2023-12-19T23:39:54Z@36.8023532,-121.7871498,lastRx=0.634s, quality=100, timeout=1m, nmeaValid=true, clockDt=3.464s, lastValidFix=2023-12-19T23:39:54Z@36.8023532,-121.7871498, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=10.46,std=0.50,min=10.00,max=11.00,n=300,hdop:sma=1.00,std=0.04,min=0.95,max=1.04,n=300,altitude:sma=0.74,std=0.59,min=-0.40,max=2.10 //		☒
Airmar GPS	2023-12-19T23:39:54.110Z@36.8023633,-121.787165,lastRx=0.522s, quality=80, timeout=5m, nmeaValid=true, clockDt=3.527s, lastValidFix=2023-12-19T23:39:54.110Z@36.8023633,-121.787165, 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=-2.71,std=0.82,min=-4.30,max=NaN //		☒
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

Last deployment of the year!

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