

Readme

SV3 Pre-Launch Checklist

Date	2024-02-14T23:57:32.737Z	Glider Name	SV3-466563798 (SV3-110)
Tech(s)	cwahl	Organization	MBARI
Project	MBTS	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 (5d1h24m23.922s), virtualDevice=true, powerThreadActive=false (no internet connectivity)	Still not working	☐
WGMS Iridium	IMEI:300434060354880, starts=1, r=17, w=14984, sessionAttempts=16531, sessionErrs=1534, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.4 (i=3), 1 queued msgs state=TALKING, sent=14984, lastTx=53.751s, avgTxSize=153.8B, totalTx=2438.273kB, received=17, lastRx=8m8.497s, avgRxSize=56.0B, totalRx=0.871kB, powerState=ON (5d1h23m57.694s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]0 blocked messages, totalMessagesDiscarded=424, averageMessageQueueRate=44.746s, sent=14984, totalBytesSent=2438.273kB, received=17, totalBytesReceived=0.871kB, lastRx=8m8.561s, 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=17, #handled=17, lastRx=rx=2024-02-		☒
Location	Using GPSUblox, declination=12.615699, failoverCounter=1, timeLastSwitchedGps=2024-02-09T22:35:27Z, clockDt=0.054s		☒
Tracker telemetry received	Battery (Volts) Report Rate	15.8 volts 4 hours	☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Tiny Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	CCU SV3-110			☒
Float name	Tiny v2 copper			☒
Glider name	Tiny v150/v200			☒
Umbilical Length	4m			☒
G1	Ecopuck			☒
G2				☐
G3				☐
T1				☐
D1				☐
S1	Hotspot #? with DAT			☒
S2	GPCTD plus DO			☒
S3	pCO2 plus pH			☒
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	931.536	//		☒
Solar Power Indicators: > 0	2.07	//		☒
	0.0	//		
	1.917	//		
	2.288	//		

Item/Procedure		Readings					
Domain Info		AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x32385119353634330055004a On=Y		OK //	24.0 //	115.3 //	Uptime: 5 days, 01:26:26 //		☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x474850052038384d0057002b On=Y		OK //	17.0 //	248.4 //	Uptime: 5 days, 01:18:56 //		☒
Domain_Name=PyldInt-0x33335114373330300043001a, Node=5, HW_SerNum=0x33335114373330300043001a On=Y		OK //	19.3 //	112.0 //	Uptime: 0 days, 00:03:36 //		☒

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	453.0 //	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2024-02-14T23:57:29.457Z,desiredHeading=328.1,compass=352.9,rack=-11.4,post=-14.1rudderS	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 (5d1h21m59.462s), 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=36.804022, -121.786125. t=37:0:NOT_DEFINED, 2024-02-14T23:57:25.832Z, lengthErrs=5, latlonErrs=6, broadcastCount=51580, lastRx=21.927s, numberObserved=16,	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=12.0°C, Press=1017.2mb, Wind Speed=16.95kn, Wind Dir=215.5°. Heading=19.7° //		☒
UBLOX GPS	2024-02-14T23:57:48Z@36.802442,-121.7871398,lastRx=0.045s, quality=100, timeout=1m, nmeaValid=true, clockDt=0.099s, lastValidFix=2024-02-14T23:57:48Z@36.802442,-121.7871398, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=9.41,std=0.61,min=8.00,max=11.00,n=300,hdop:sma=0.99,std=0.01,min=0.95,max=1.06,n=300,altitude:sma=2.09,std=0.67,min=-0.40,max=3.20,n=300//		☒
Airmar GPS	2024-02-14T23:57:47.560Z@36.8024383,-121.7871317,lastRx=0.196s, quality=80, timeout=5m, nmeaValid=true, clockDt=0.404s, lastValidFix=2024-02-14T23:57:47.560Z@36.8024383,-121.7871317, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=9.34,std=0.47,min=9.00,max=10.00,n=300,hdop:sma=1.00,std=0.00,min=1.00,max=1.00,n=300,altitude:sma=1.17,std=0.87,min=0.00,max=2.30,n=300 //		☒
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

pc02 Licor calibrated. GPCD, DO, SBE Pump and FL swapped out with recently calibrate sensors.

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