

SV3-110: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2024-06-18T17:20:06.069Z	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, RudderParametersManager, ThrusterAdjuster Not running: PortForwarder, ThrudderDiagnosticsFixer

Communication

Item/Procedure	Readings	Comments	Initials
WiFi Connection	WiFi is On		☒
Virtual Relay	0 queued msgs state=WAITING, sent=0, received=0, powerState=OFF (17h34m59.490s), virtualDevice=true, powerThreadActive=false (no internet connectivity)	Not working...	☐
WGMS Iridium	IMEI:300434060354880, starts=1, r=10, w=1447, sessionAttempts=1621, sessionErrs=157, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.7 (i=5), 1 queued msgs state=TALKING, sent=1447, lastTx=9.979s, avgTxSize=118.5B, totalTx=217.645kB, received=10, lastRx=2h39m36.432s, totalRx=0.423kB, powerState=ON (17h34m29.846s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]410 blocked messages, totalMessagesDiscarded=401, averageMessageQueueRate=48.015s, sent=1447, totalBytesSent=217.645kB, received=10, totalBytesReceived=0.423kB, lastRx=2h39m36.508s, 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=10, #handled=10, lastRx=rx=2024-06-		☒
Location	Using GPSUblox, declination=12.581945, failoverCounter=1, timeLastSwitchedGps=2024-06-17T23:47:33Z, clockDt=2.658s		☒
Tracker telemetry received	Battery (Volts) Report Rate	15.9 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			☒
Glider name	Tiny v150/200			☒
Umbilical Length	4m			☒
G1	Ecopuck			☒
G2				☐
G3				☐
T1				☐
D1				☐
S1	Hotspot 3 with MF 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
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Battery [Wh] > 700 Wh	927.764	//		☒
Solar Power Indicators: > 0	19.663 0.0 21.563 28.332	// // // //		☒

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	26.5	116.6	Uptime: 0 days, 17:38:07		☒
Domain_Name=Thrudder-2, Node=3, HW_SerNum=0x474850052038384d0057002b On=Y	OK	28.7	282.6	Uptime: 0 days, 17:30:15		☒
Domain_Name=PyldInt-0x33335114373330300043001a, Node=5, HW_SerNum=0x33335114373330300043001a On=Y	OK	24.1	114.2	Uptime: 0 days, 02:48:05		☒

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	453.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2024-06-18T17:20:04.233Z,desiredHeading=345.6,compass=10.7,rack=-11.4,post=-15rudderStat	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)	36.797, -121.847	Avoidance Off, Note Waypoint Course Used		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m30s, powerState=OFF (17h32m32.793s), 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 338353207 (AMITY). Pos=36.801400, -121.786510. t=36:0:NOT_DEFINED, 2024-06-18T17:18:40.835Z, lengthErrs=2, latlonErrs=5, broadcastCount=5401, lastRx=1m41.758s, numberObserved=21, averageRxRateMillis=3.727s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=18.5°C, Press=1010.8mb, Wind Speed=3.04kn, Wind Dir=258.2°. Heading=25.2°		☒
UBLOX GPS	2024-06-18T17:20:26Z@36.8023702,-121.7871507,lastRx=0.007s, quality=100, timeout=1m, nmeaValid=true, clockDt=3.368s, lastValidFix=2024-06-18T17:20:26Z@36.8023702,-121.7871507, gpsWatchdogFailureCounter=0, ggaQCount:1=300,numSat:sma=6.02,std=0.13,min=6.00,max=7.00,n=300,hdop:sma=1.30,std=0.00,min=1.30,max=1.30,n=300,altitude:sma=1.22,std=0.36,min=0.40,max=1.90,n=300		☒
Airmar GPS	2024-06-18T17:20:25.500Z@36.80239,-121.7871417,lastRx=0.411s, quality=80, timeout=5m, nmeaValid=true, clockDt=2.781s, lastValidFix=2024-06-18T17:20:25.500Z@36.80239,-121.7871417, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=8.59,std=0.52,min=7.00,max=9.00,n=300,hdop:sma=1.20,std=0.01,min=1.20,max=1.30,n=300,altitude:sma=5.78,std=0.16,min=5.50,max=6.40,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

Wing Springs bushings worn, replace soon!

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