

Status Checklist Config Operate Setup Help

SV3 Pre-Launch Checklist

Date	2024-07-18T21:41:56.833Z	Glider Name	SV3-466563798(SV3-110)
Tech(s)	cwahl	Organization	MBARI
Project	MBTS	Ship/Op Area	Paragon MB

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, ThruderDiagnosticsFixer

Item/Procedure	Readings	Comments	Initials
WiFi Connection	WiFi is On //		☒
Virtual Relay	0 queued msgs state=WAITING, sent=0, received=0, powerState=OFF (4h25m7.348s), virtualDevice=true, powerThreadActive=false (no internet connectivity) //		☒
WGMS Iridium	IMEI:300434060354880, starts=1, r=14, w=297, sessionAttempts=328, sessionErrs=18, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=5.0 (i=5), 0 queued msgs state=TALKING, sent=297, lastTx=19.013s, avgTxSize=128.0B, totalTx=33.836kB, received=14, lastRx=2h9m37.932s, totalRx=0.499kB, powerState=ON (4h24m37.878s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false //		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]819 blocked messages, averageMessageQueueRate=49.947s, sent=297, totalBytesSent=33.836kB, received=14, totalBytesReceived=0.499kB, lastRx=2h9m37.937s, 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=14, #handled=14, lastRx=rx=2024-07-18T19:32:18.913Z, receiver=iridiumModem, //		☒
Location	Using GPSublox, declination=12.5738945, failoverCounter=1, timeLastSwitchedGps=2024-07-18T17:19:03Z, clockDt=3.122s //		☒
Tracker telemetry received	Battery (Volts)15.75 volts Report Rate4 hours		☒

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Tiny Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	SV3-110 Wave Glider Tiny			☒
Float name	The return of Tiny copper version			☒
Glider name	Tiny v150			☒
Umbilical Length	4m			☒
G1	Ecopuck			☒
G2				☐
G3				☐
T1				☐
D1				☐
S1	Hotspot 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				☒

Item/Procedure	Readings	Comments	Initials

Battery [Wh] > 700 Wh	933.595	///		☒
Solar Power Indicators: > 0	1.155 0.0 3.547 9.841	/// /// /// ///		☒

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	31.7	118.7	Uptime: 0 days, 04:29:58		☒
Domain_Name=Thrudder-2, Node=3, HW_SerNum=0x474850052038384d0057002b On=Y	OK	25.9	267.5	Uptime: 0 days, 04:22:13		☒
Domain_Name=PyldInt-0x33335114373330300043001a, Node=5, HW_SerNum=0x33335114373330300043001a On=Y	OK	31.0	116.9	Uptime: 0 days, 02:54:22		☒

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	448.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2024-07-18T21:41:56.306Z,desiredHeading=337.5,compass=2.5,rack=-11.4,post=-11.2rudderSta	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 (4h22m41.755s), 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 368067680 (WILLIAM JOY). Pos=36.802245, -121.785222. t=37:0:NOT_DEFINED, 2024-07-18T21:41:48.269Z, lengthErrs=0, latLonErrs=0, broadcastCount=1461, lastRx=11.488s, numberObserved=18, averageRxRateMillis=7.561s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=19.6°C, Press=1017.0mb, Wind Speed=3.47kn, Wind Dir=257.8°. Heading=27.0°		☒
UBLOX GPS	2024-07-18T21:42:03Z@36.8023597,-121.7871202,lastRx=0.413s, quality=100, timeout=1m, nmeaValid=true, clockDt=3.222s, lastValidFix=2024-07-18T21:42:03Z@36.8023597,-121.7871202, gpsWatchdogFailureCounter=0, ggaQCount=2=300,numSat:sma=10.63,std=0.48,min=10.00,max=11.00,n=300,hdop:sma=0.84,std=0.00,min=0.84,max=0.84,n=300,altitude:sma=0.51,std=0.53,min=1.60,max=0.3		☒
Airmar GPS	2024-07-18T21:42:02.700Z@36.80239,-121.7871183,lastRx=0.740s, quality=80, timeout=5m, nmeaValid=true, clockDt=2.902s, lastValidFix=2024-07-18T21:42:02.700Z@36.80239,-121.7871183, gpsWatchdogFailureCounter=0, ggaQCount=2=300,numSat:sma=11.00,std=0.06,min=10.00,max=11.00,n=300,hdop:sma=0.80,std=0.01,min=0.80,max=0.90,n=300,altitude:sma=9.21,std=0.18,min=8.90,max=9.60,		☒
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

YAY MBTS

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