

Readme

SV3 Pre-Launch Checklist

Date	2025-04-02T21:44:34.208Z	Glider Name	SV3-466563798(SV3-110)
Tech(s)	cwahl	Organization	MBARI
Project	MBTS	Ship/Op Area	Monterey Bay. Paragon or dock/davit launch

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 (2h2m49.676s), virtualDevice=true, powerThreadActive=false (no internet connectivity)	Still not working	☐
WGMS Iridium	IMEI:300434060354880, starts=1, r=11, w=72, sessionAttempts=90, sessionErrs=5, wErrs=0, rErrs=0, cErrs=1, 10m ss avg=4.9 (i=4), 1 queued msgs state=ATTEMPTING, sent=72, lastTx=1m10.588s, avgTxSize=98.3B, totalTx=7.078kB, received=11, lastRx=1h1m3.363s, totalRx=0.454kB, powerState=ON (2h2m19.601s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]679 blocked messages, totalMessagesDiscarded=1, averageMessageQueueRate=1m48.080s, sent=72, totalBytesSent=7.078kB, received=11, totalBytesReceived=0.454kB, lastRx=1h1m3.360s, 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=11, #handled=11, lastRx=rx=2025-04-02T19:44:03Z, clockDt=1.760s		☒
Location	Using GPSUblox, declination=12.506209, failoverCounter=1, timeLastSwitchedGps=2025-04-02T19:44:03Z, clockDt=1.760s		☒
Tracker telemetry received	Battery (Volts) 15.6 Volts Report Rate 4 hours		☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Tiny Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	CCU SV3-110 Tiny			☒
Float name	Tiny Copper version			☒
Glider name	Spare v200			☒
Umbilical Length	4m			☒
G1	Ecopuck plus VR2C			☒
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				☒

Vehicle Status

Item/Procedure	Readings				Comments	Initials
Battery [Wh] > 700 Wh	914.891					☒
Solar Power Indicators: > 0	30.451					☒
	0.0					
	33.533					
	35.161					

Item/Procedure	Readings					Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x32385119353634330055004a On=Y	OK	26.7	114.6	Uptime: 0 days, 02:06:08		☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x474850052038384d0057002b On=Y	OK	21.8	250.0	Uptime: 0 days, 01:58:12	G1 payload looks good!	☒

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	461.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	02T21:44:33.270Z,desiredHeading=284.1,compass=309.1,rack=-11.4,post=-12.5rudderStatus=0000000B,)	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)	36.797 -121.847	Avoidance Off, Note Waypoint Course Used		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m30s, powerState=OFF (2h26.683s), ampsPower=false, powerThreadActive=false	Catch release buoy by hand		☒
Octopus Cable 01	OK	Must Pass		☒
Octopus Cable 02	OK	Must Pass		☒
AIS Status	No AIS reports yet received	If in harbor, must see MMSI	was off when checklist was loaded. turned on appears to be working! Phew!	☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=11.7°C, Press=1013.5mb, Wind Speed=9.54kn, Wind Dir=303.3°. Heading=304.4°		☒
UBLOX GPS	2025-04-02T21:44:42Z@36.802305,-121.7871513,lastRx=0.241s, quality=100, timeout=1m, nmeaValid=true, clockDt=1.738s, lastValidFix=2025-04-02T21:44:42Z@36.802305,-121.7871513, gpsWatchdogFailureCounter=0, ggaQCount=2=300,numSat:sma=9.51,std=0.50,min=9.00,max=10.00,n=300,hdop:sma=1.11,std=0.06,min=1.04,max=1.17,n=300,altitude:sma=0.32,std=1.45,min=-3.50,max=2.50,n=300,		☒

Airmar GPS	2025-04-02T21:44:41.500Z@36.8023083,-121.7871033,lastRx=0.847s, quality=80, timeout=5m, nmeaValid=true, clockDt=1.127s, lastValidFix=2025-04-02T21:44:41.500Z@36.8023083,-121.7871033, gpsWatchdogFailureCounter=0, ggaQCount:1=34,numSat:sma=7.85,std=0.69,min=4.00,max=8.00,n=34,hdop:sma=1.19,std=0.33,min=1.10,max=2.50,n=34,altitude:sma=3.76,std=7.84,min=-23.60,max=11.10,n=34 //		☒
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

Technician Signature:

cwah1

- 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