

Readme

SV3 Pre-Launch Checklist

Date	2025-08-12T22:02:30.780Z	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 (3h8m49.263s), virtualDevice=true, powerThreadActive=false (no internet connectivity)	Still not working...	☐
WGMS Iridium	IMEI:300434060354880, starts=1, r=2, w=461, sessionAttempts=516, sessionErrs=53, wErrs=0, rErrs=0, cErrs=3, 10m ss avg=3.9 (i=1), 1 queued msgs state=ATTEMPTING, sent=461, lastTx=2m14.780s, avgTxSize=191.2B, totalTx=85.959kB, received=2, lastRx=2h45m56.932s, totalRx=0.076kB, powerState=ON (3h8m21.912s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	totalBytesSent=85.959kB, received=2, totalBytesReceived=0.076kB, lastRx=2h45m56.960s, 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=2, #handled=2, lastRx=rx=2025-08-12T19:16:33.884Z, receiver=iridiumModem, headerByte=0x0A, length=39],UnsupportedMessageHandler[active=true, #handled=0], minimumMTU=338		☒
Location	Using GPSUblox, declination=12.471525, failoverCounter=1, timeLastSwitchedGps=2025-08-12T18:55:57.010Z, clockDt=3.115s		☒
Tracker telemetry received	Battery (Volts)15.9 volts Report Rate4 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	Tiny v200			☒
Umbilical Length	4m			☒
G1	Ecopuck			☒
G2				☐
G3				☐
T1				☐
D1				☐
S1	Hotspot 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	945 . 62	//		☒
Solar Power Indicators: > 0	4.619	//		☒
	0.0	//		
	5.885	//		
	6.675	//		

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 //	30.4 //	116.9 //	Uptime: 0 days, 03:14:20 //			☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x474850052038384d0057002b On=Y	OK //	23.6 //	251.9 //	Uptime: 0 days, 03:06:11 //			☒
Domain_Name=PydInt-0x33335114373330300043001a, Node=5, HW_SerNum=0x33335114373330300043001a On=Y	OK //	24.4 //	112.9 //	Uptime: 0 days, 00:00:-1 //			☒

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	455.0 //	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2025-08-12T22:02:30.340Z,desiredHeading=352.9,compass=17,rack=-11.4,post=-12.3rudderStat	Right, Left, Center		☒
Thruder Compass Correction	Thruder compass is corrected	recommended NOT corrected		☒
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 (3h6m23.148s), 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 368141640 (F/V VALERIE). Pos=36.801085, -121.784343. t=30:0:NOT_DEFINED, 2025-08-12T22:02:31.606Z, lengthErrs=0, latlonErrs=0, broadcastCount=2516, lastRx=2.814s, numberObserved=22, averageRxRateMillis=2.489s //	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=18.9°C, Press=1014.7mb, Wind Speed=3.40kn, Wind Dir=276.1°. Heading=28.6° //		☒

UBLOX GPS	2025-08-12T22:02:37Z@36.8025032,-121.7871025,lastRx=0.658s, quality=100, timeout=1m, nmeaValid=true, clockDt=2.545s, lastValidFix=2025-08-12T22:02:37Z@36.8025032,-121.7871025, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=10.63,std=0.51,min=9.00,max=11.00,n=300,hdop:sma=0.89,std=0.04,min=0.86,max=1.16,n=300,altitude:sma=1.44,std=1.43,min=-0.90,max=4.20, //			
Airmar GPS	2025-08-12T22:02:37.600Z@36.80252,-121.7870733,lastRx=0.077s, quality=80, timeout=5m, nmeaValid=true, clockDt=3.080s, lastValidFix=2025-08-12T22:02:37.600Z@36.80252,-121.7870733, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=11.00,std=0.00,min=11.00,max=11.00,n=300,hdop:sma=0.90,std=0.00,min=0.90,max=0.90,n=300,altitude:sma=4.03,std=0.49,min=3.20,max=4.90, //			
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

Nothing to report.

Technician Signature:

cwahl

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