

SV3 Pre-Launch Checklist

Date	2026-03-17T15:17:12.789Z	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 (3d15h38m14.840s), virtualDevice=true, powerThreadActive=false (no internet connectivity)	Still not working	☐
WGMS Iridium	IMEI:300434060354880, starts=1, r=4, w=3694, sessionAttempts=4245, sessionErrs=548, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=5.0 (i=5), 0 queued msgs state=TALKING, sent=3694, lastTx=34.245s, avgTxSize=131.4B, totalTx=532.373kB, received=4, lastRx=3d15h14m23.383s, totalRx=0.154kB, powerState=ON (3d15h37m47.475s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]0 blocked messages, totalMessagesDiscarded=505, averageMessageQueueRate=1m22.839s, sent=3694, totalBytesSent=532.373kB, received=4, totalBytesReceived=0.154kB, lastRx=3d15h14m23.443s, 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]		☒
Location	Using GPSUblox, declination=12.4144535, failoverCounter=1, timeLastSwitchedGps=2026-03-13T23:41:33Z, clockDt=4.019s		☒
Tracker telemetry received	Battery (Volts)15.8 volts Report Rate4 hours		☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	MBARI Spare tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	CCU SV3-110			☒
Float name	Tiny			☒
Glider name	Tiny v200			☒
Umbilical Length	4m			☒
G1	SMC with Ecopuck			☒
G2				☐
G3				☐

T1				☐
D1				☐
S1	Hotspot with MD DAT			☒
S2	GPCTD plus D0			☒
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	859.839		☒
Solar Power Indicators: > 0	6.069 0.0 5.811 5.774		☒

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	18.9	113.8	Uptime: 3 days, 15:42:38		☒
Domain_Name=Thrudder-2, Node=3, HW_SerNum=0x474850052038384d0057002b On=Y	OK	20.3	228.4	Uptime: 3 days, 15:34:11		☒
Domain_Name=PydInt-0x33335114373330300043001a, Node=5, HW_SerNum=0x33335114373330300043001a On=Y	OK	13.6	110.0	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		☒
	Thrudder	Hardware secure		☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	Comments
Thruster Spin	444.0	Spins freely, slow and fast speeds	
Rudder Range of Motion		Rudder moves freely and smoothly	
Rudder right, left, center	Rudder (2026-03-17T15:17:09.886Z,desiredHeading=2.4,compass=27.4,rack=-11.4,post=-15.1rudderStat	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 (3d15h35m56.948s), ampsPower=false, powerThreadActive=false	Catch release buoy by hand	Still not working
Octopus Cable 01	OK	Must Pass	
Octopus Cable 02	OK	Must Pass	
AIS Status	lastSeen=MMSI 368141640 (F/V VALERIE). Pos=36.801057, -121.784357. t=30:0:NOT_DEFINED, 2026-03-17T15:17:16.283Z, lengthErrs=2, latlonErrs=3, broadcastCount=40976, lastRx=11.692s, numberObserved=15,	▲ If in harbor, must see MMSI ▼ ☐	
Photo Document			

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=16.3°C, Press=1016.0mb, Wind Speed=0.44kn, Wind Dir=12.7°. Heading=28.0°		☒
UBLOX GPS	2026-03-17T15:17:32Z@36.8023313,-121.787148,lastRx=0.744s, quality=100, timeout=1m, nmeaValid=true, clockDt=3.933s, lastValidFix=2026-03-17T15:17:32Z@36.8023313,-121.787148, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=11.96,std=0.20,min=11.00,max=12.00,n=300,hdop:sma=0.90,std=0.03,min=0.88,max=1.01,n=300,altitude:sma=1.48,std=0.90,min=0.10,max=4.10,	▲ ▼	☒
Airmar GPS	2026-03-17T15:17:31.800Z@36.8023333,-121.7871483,lastRx=0.974s, quality=80, timeout=5m, nmeaValid=true, clockDt=3.641s, lastValidFix=2026-03-17T15:17:31.800Z@36.8023333,-121.7871483, gpsWatchdogFailureCounter=0, ggaQCount:1=237,numSat:sma=8.62,std=1.57,min=3.00,max=10.00,n=237,hdop:sma=1.39,std=2.06,min=1.00,max=19.30,n=237,altitude:sma=12.11,std=2.76,min=7.70,max=22.90	▲ ▼	☒
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

Fix the recovery device!

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