

SV3-110: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2026-05-08T21:38:59.761Z	Glider Name	SV3-466563798(SV3-110)
Tech(s)	cwahl	Organization	MBARI
Project	MBTS, LRAUV docking?, SES and Brian's collaborator	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 (3d2h4m6.810s), virtualDevice=true, powerThreadActive=false (no internet connectivity)	Still not working...	☐
WGMS Iridium	IMEI:300434060354880, starts=1, r=4, w=4342, sessionAttempts=5136, sessionErrs=790, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.3 (i=3), 0 queued msgs state=TALKING, sent=4342, lastTx=0.224s, avgTxSize=159.4B, totalTx=676.015KB, received=4, lastRx=2d5h10m35.186s, totalRx=0.137kB, powerState=ON (3d2h3m38.218s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]0 blocked messages, totalMessagesDiscarded=519, averageMessageQueueRate=42.807s, sent=4342, totalBytesSent=676.015KB, received=4, totalBytesReceived=0.137kB, lastRx=2d5h10m35.214s, 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=4, #handled=4, lastRx=rx=2026-05-		☒
Location	Using GPSUblox, declination=12.400699, failoverCounter=1, timeLastSwitchedGps=2026-05-05T19:37:03.010Z, clockDt=-0.930s		☒
Tracker telemetry received	Battery (Volts)	15.9 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			☒
Float name	Tiny Copper version			☒
Glider name	Tiny v200			☒
Umbilical Length	4m			☒
G1	Ecopuck			☒
G2				☐
G3				☐
T1				☐
D1				☐
S1	Hotspot with MF DAT and LF dir			☒
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	937.555		☒
Solar Power Indicators: > 0	0.206 0.0 4.953 6.197		☒

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	30.5	118.1	Uptime: 3 days, 02:06:42		☒
Domain_Name=Thrudder-2, Node=3, HW_SerNum=0x474850052038384d0057002b On=Y	OK	20.6	232.6	Uptime: 3 days, 01:58:19		☒
Domain_Name=Pyklnl-0x33335114373330300043001a, Node=5, HW_SerNum=0x33335114373330300043001a On=Y	OK	28.0	117.0	Uptime: 0 days, 00:00:-1		☒

Mechanical Checks

	Item/Procedure	Specifications	Comments	Initials
Float	Wet-mates connected/tubed	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	445.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2026-05-08T21:38:55.783Z,desiredHeading=342.1,compass=7.1,rack=-14.9,post=-15.2rudderSta	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 (3d2h2m8.686s), ampsPower=false, powerThreadActive=false	Catch release buoy by hand	Not working...	☐
Octopus Cable 01	OK	Must Pass		☒
Octopus Cable 02	Failure	Must Pass	???	☐
AIS Status	lastSeen=MMSI 366934770 (NOAHS ARK). Pos=36.804762, -121.785152. t=30:0:FISHING, 2026-05-08T21:39:07.053Z, lengthErrs=0, latlonErrs=0, broadcastCount=53099, lastRx=0.899s, numberObserved=26, averageRxRateMillis=5.500s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=17.4°C, Press=1017.0mb, Wind Speed=2.89kn, Wind Dir=325.3°. Heading=19.8°		☒
UBLOX GPS	2026-05-08T21:39:07Z@36.802489,-121.787112,lastRx=0.233s, quality=100, timeout=1m, nmeaValid=true, clockDt=0.819s, lastValidFix=2026-05-08T21:39:07Z@36.802489,-121.787112, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=10.00,std=0.00,min=10.00,max=10.00,n=300,hdop:sma=1.00,std=0.01,min=1.00,max=1.16,n=300,altitude:sma=1.95,std=0.78,min=0.50,max=3.40,		☒
Airmar GPS	2026-05-08T21:39:07.210Z@36.8024967,-121.7870933,lastRx=0.031s, quality=80, timeout=5m, nmeaValid=true, clockDt=0.819s, lastValidFix=2026-05-08T21:39:07.210Z@36.8024967,-121.7870933, gpsWatchdogFailureCounter=0, ggaQCount:1=300,numSat:sma=9.00,std=0.00,min=9.00,max=9.00,n=300,hdop:sma=1.10,std=0.00,min=1.10,max=1.10,n=300,altitude:sma=2.77,std=0.62,min=1.50,max=3.60,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

Back to offshore deployments!

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