

Readme

SV3 Pre-Launch Checklist

Date	2025-12-02T23:12:41.993Z	Glider Name	SV3-466563798(SV3-110)
Tech(s)	cwahl	Organization	MBARI
Project	MBTS/Supervised Autonomy/Targeted Sampling	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 (2h41m26.608s), virtualDevice=true, powerThreadActive=false (no internet connectivity)	Cell still not working	☒
WGMS Iridium	IMEI:300434060354880, starts=1, r=20, w=176, sessionAttempts=209, sessionErrs=20, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=3.5 (i=3), 0 queued msgs state=TALKING, sent=176, lastTx=13.741s, avgTxSize=155.7B, totalTx=25.628kB, received=20, lastRx=31m49.562s, avgRxSize=40.1B, totalRx=0.815kB, powerState=ON (2h40m58.165s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]497 blocked messages, totalMessagesDiscarded=500, averageMessageQueueRate=50.229s, queueDumpCounter=1, sent=176, totalBytesSent=25.628kB, received=20, totalBytesReceived=0.815kB, lastRx=31m49.579s, 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=20, #handled=20, lastRx=rx=2025-12-		☒
Location	Using GPSUblox, declination=12.442037, failoverCounter=1, timeLastSwitchedGps=2025-12-02T20:33:27Z, clockDt=0.877s		☒
Tracker telemetry received	Battery (Volts)	15.8 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	Tiny v200			☒
Umbilical Length	4m			☒
G1	Ecopuck		Ecopuck log files cleared, appears to be working now.	☒
G2				☐
G3				☐
T1				☐
D1				☐
S1	Hotspot 2 with MF 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	365.054		☒
Solar Power Indicators: > 0	6.143 0.0 3.957 0.0		☒

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	25.8	116.0	Uptime: 0 days, 02:46:19		☒
Domain_Name=PydInt-0x33335114373330300043001a, Node=4, HW_SerNum=0x33335114373330300043001a On=Y	OK	24.3	115.3	Uptime: 0 days, 02:37:53		☒
Domain_Name=Thruder-2, Node=5, HW_SerNum=0x474850052038384d0057002b On=Y	OK	18.7	236.6	Uptime: 0 days, 02:37:45		☒

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	443.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2025-12-02T23:12:39.061Z,desiredHeading=229.1,compass=203.9,rack=11.5,post=13.7rudderSta	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 (2h39m35.202s), ampsPower=false, powerThreadActive=false	Catch release buoy by hand	Not working troubleshoot when back onshore	☐
Octopus Cable 01	OK	Must Pass		☒
Octopus Cable 02	Failure	Must Pass	? everything appears to be working...	☐
AIS Status	lastSeen=MMSI 338412569 (CALLIE). Pos=36.803163, -121.785557. t=36:0:NOT_DEFINED, 2025-12-02T23:12:29.709Z, lengthErrs=0, latlonErrs=0, broadcastCount=964, lastRx=22.018s, numberObserved=17, averageRxRateMillis=3.565s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=17.3°C, Press=1015.0mb, Wind Speed=2.09kn, Wind Dir=290.6°. Heading=209.9°		☒

UBLOX GPS	2025-12-02T23:12:53Z@36.802413,-121.7871382,lastRx=0.342s, quality=100, timeout=1m, nmeaValid=true, clockDt=1.184s, lastValidFix=2025-12-02T23:12:53Z@36.802413,-121.7871382, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=11.74,std=0.44,min=11.00,max=12.00,n=300,hdop:sma=0.95,std=0.01,min=0.95,max=1.03,n=300,altitude:sma=0.59,std=0.71,min=-0.60,max=2.70			
Airmar GPS	2025-12-02T23:12:52.900Z@36.8024,-121.7871467,lastRx=0.499s, quality=80, timeout=5m, nmeaValid=true, clockDt=0.984s, lastValidFix=2025-12-02T23:12:52.900Z@36.8024,-121.7871467, gpsWatchdogFailureCounter=0, ggaQCount:1=89,2=79,numSat:sma=10.17,std=1.02,min=8.00,max=11.00,n=168,hdop:sma=1.03,std=0.07,min=1.00,max=1.20,n=168,altitude:sma=1.13,std=6.18,min=-6.80,max=1			
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

Ecopuck working again, still need to troubleshoot recovery device.

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