

Readme

SV3 Pre-Launch Checklist

Date	2025-01-07T01:16:19.863Z	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 (16m21.837s), virtualDevice=true, powerThreadActive=false (no internet connectivity)	Still not working	☐
WGMS Iridium	IMEI:300434060354880, starts=1, r=5, w=49, sessionAttempts=53, sessionErrs=3, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.8 (i=4), 0 queued msgs state=TALKING, sent=49, lastTx=1m36.589s, avgTxSize=106.8B, totalTx=5.017kB, received=5, lastRx=7m29.376s, avgRxSize=40.0B, totalRx=0.195kB, powerState=ON (15m53.573s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]0 blocked messages, averageMessageQueueRate=16.342s, sent=49, totalBytesSent=5.017kB, received=5, totalBytesReceived=0.195kB, lastRx=7m29.448s, 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=5, #handled=5, lastRx=rx=2025-01-07T01:02:03Z, clockDt=2.850s		☒
Location	Using GPSUblox, declination=12.528738, failoverCounter=1, timeLastSwitchedGps=2025-01-07T01:02:03Z, clockDt=2.850s		☒
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			☒
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	649.685	//		☒
Solar Power Indicators: > 0	0.042	//		☒
	0.0	//		
	0.046	//		
	0.05	//		

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 //	21.4 //	113.6 //	Uptime: 0 days, 00:21:58 //		☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x474850052038384d0057002b On=Y	OK //	19.1 //	246.2 //	Uptime: 0 days, 00:10:11 //		☒
Domain_Name=PydInt-0x33335114373330300043001a, Node=5, HW_SerNum=0x33335114373330300043001a On=Y	OK //	20.1 //	110.8 //	Uptime: 0 days, 00:02:44 //		☒

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	451.0 //	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2025-01-07T01:16:19.198Z,desiredHeading=222.8,compass=197.7,rack=11.5,post=13.1rudderSta	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 (13m59.740s), ampsPower=false, powerThreadActive=false //	Catch release buoy by hand		☒
Octopus Cable 01	OK //	Must Pass		☒
Octopus Cable 02	Failure //	Must Pass	Hmmm... Everything appears to be working.	☒
AIS Status	lastSeen=MMSI 368141640 (F/V VALERIE). Pos=36.801055, -121.784333. t=30:0:NOT_DEFINED, 2025-01-07T01:16:31.793Z, lengthErrs=0, latlonErrs=0, broadcastCount=144, lastRx=3.146s, numberObserved=12, averageRxRateMillis=1.289s //	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=12.8°C, Press=1019.0mb, Wind Speed=2.91kn, Wind Dir=133.3°. Heading=208.9° //		☒

UBLOX GPS	2025-01-07T01:16:38Z@36.8024838,-121.7871215,lastRx=0.594s, quality=100, timeout=1m, nmeaValid=true, clockDt=2.930s, lastValidFix=2025-01-07T01:16:38Z@36.8024838,-121.7871215, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=9.22,std=0.66,min=8.00,max=10.00,n=300,hdop:sma=1.19,std=0.27,min=0.93,max=1.63,n=300,altitude:sma=4.46,std=1.10,min=2.70,max=6.50,n=300 //		
Airmar GPS	2025-01-07T01:16:38.300Z@36.802505,-121.7871433,lastRx=0.289s, quality=80, timeout=5m, nmeaValid=true, clockDt=3.143s, lastValidFix=2025-01-07T01:16:38.300Z@36.802505,-121.7871433, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=9.00,std=0.00,min=9.00,max=9.00,n=300,hdop:sma=1.00,std=0.00,min=1.00,max=1.00,n=300,altitude:sma=-1.43,std=2.37,min=-6.30,max=2.60,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

Xeos beacon batteries changed for this years ops

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