

Readme

SV3 Pre-Launch Checklist

Date	2025-11-11T00:56:54.408Z	Glider Name	SV3-466563798(SV3-110)
Tech(s)	cwahl	Organization	MBARI
Project	MBTS/Supervised Autonomy	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 (40m1.102s), virtualDevice=true, powerThreadActive=false (no internet connectivity)		☐
WGMS Iridium	IMEI:300434060354880, starts=1, r=2, w=113, sessionAttempts=134, sessionErrs=19, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.7 (i=5), 1 queued msgs state=TALKING, sent=113, lastTx=6.863s, avgTxSize=156.7B, totalTx=17.216kB, received=2, lastRx=16m57.586s, avgRxSize=39.0B, totalRx=0.076kB, powerState=ON (39m32.381s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]509 blocked messages, totalMessagesDiscarded=2, averageMessageQueueRate=7.444s, sent=113, totalBytesSent=17.216kB, received=2, totalBytesReceived=0.076kB, lastRx=16m57.583s, 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=2025-11-11T00:19:03Z, clockDt=4.528s		☒
Location	Using GPSUblox, declination=12.447812, failoverCounter=1, timeLastSwitchedGps=2025-11-11T00:19:03Z, clockDt=4.528s		☒
Tracker telemetry received	Battery (Volts) Report Rate	15.9 Volts 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	Spare v200 glider			☒
Umbilical Length	4m			☒
G1	Ecopuck			☒
G2				☐
G3				☐
T1				☐
D1				☐
S1	Hotspot 2 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	846.632 //		☒
Solar Power Indicators: > 0	0.058 // 0.0 // 0.129 // 0.142 //		☒

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 //	20.1 //	114.1 //	Uptime: 0 days, 00:42:10 //			☒
Domain_Name=PydInt-0x33335114373330300043001a, Node=4, HW_SerNum=0x33335114373330300043001a On=Y	OK //	18.3 //	112.0 //	Uptime: 0 days, 00:33:43 //			☒
Domain_Name=Thruder-2, Node=5, HW_SerNum=0x474850052038384d0057002b On=Y	OK //	17.5 //	231.8 //	Uptime: 0 days, 00:33:44 //			☒

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	445.0 //	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2025-11-11T00:56:51.827Z,desiredHeading=212.8,compass=187.4,rack=11.5,post=13.3rudderSta	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 (38m5.993s), ampsPower=false, powerThreadActive=false //	Catch release buoy by hand	Not working?	☐
Octopus Cable 01	OK //	Must Pass		☒
Octopus Cable 02	OK //	Must Pass		☒
AIS Status	lastSeen=MMSI 338415000 (RACHEL CARSON). Pos=36.805003, -121.795385. t=90:0:UNDERWAY_ENGINE, 2025-11-11T00:56:58.879Z, lengthErrs=0, latlonErrs=0, broadcastCount=418, lastRx=2.680s, numberObserved=13, averageRxRateMillis=3.254s //	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=13.1°C, Press=1018.7mb, Wind Speed=3.20kn, Wind Dir=203.6°. Heading=202.0° //		☒

UBLOX GPS	timeout=1m, nmeaValid=true, clockDt=4.410s, lastValidFix=2025-11-11T00:57:06Z@36.8024412, -121.7871352, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=11.49,std=0.50,min=11.00,max=12.00,n=300,hdop:sma=0.91,std=0.03,min=0.86,max=0.93,n=300,altitude:sma=0.13,std=0.52,min=-0.70,max=1.10,n=300		
Airmar GPS	2025-11-11T00:57:06.100Z@36.8024383, -121.7871383, lastRx=0.736s, quality=80, timeout=5m, nmeaValid=true, clockDt=4.473s, lastValidFix=2025-11-11T00:57:06.100Z@36.8024383, -121.7871383, gpsWatchdogFailureCounter=0, ggaQCount:1=300,numSat:sma=10.00,std=0.00,min=10.00,max=10.00,n=300,hdop:sma=1.00,std=0.00,min=1.00,max=1.00,n=300,altitude:sma=-3.65,std=2.17,min=-9.70,max=0.5		
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

recovery device not working investigate

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