

Readme

SV3 Pre-Launch Checklist

Date	2025-05-23T23:06:27.221Z	Glider Name	SV3-16977098(SV3-034)
Tech(s)	cwahl	Organization	MBARI
Project	KBB Bioacoustics	Ship/Op Area	Paragon MB

Software Information

Regulus Version	SV3-034, sn=16977098, 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

Communication

Item/Procedure	Readings	Comments	Initials
WiFi Connection	WiFi is On		☒
Virtual Relay	0 queued msgs state=WAITING, sent=0, received=0, powerState=ON (47m28.731s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false (no internet connectivity)	Still not working	☐
WGMS Iridium	IMEI:30043406000860, starts=1, r=3, w=59, sessionAttempts=88, sessionErrs=29, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=3.9 (i=4), 0 queued msgs state=TALKING, sent=59, lastTx=11.009s, avgTxSize=126.5B, totalTx=7.286kB, received=3, lastRx=23m20.381s, avgRxSize=39.0B, totalRx=0.114kB, powerState=ON (46m59.501s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]438 blocked messages, averageMessageQueueRate=27.396s, sent=59, totalBytesSent=7.286kB, received=3, totalBytesReceived=0.114kB, lastRx=23m20.369s, 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=3, #handled=3, lastRx=rx=2025-05-23T22:37:02.980Z, clockDt=-0.247s		☒
Location	Using GPSUblox, declination=12.492783, failoverCounter=1, timeLastSwitchedGps=2025-05-23T22:37:02.980Z, clockDt=-0.247s		☒
Tracker telemetry received	Battery (Volts) 15.8 volts Report Rate 4 hours?		☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Hansen Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	CCU SV3-034 Hansen			☒
Float name	Hansen			☒
Glider name	Hansen			☒
Umbilical Length	4m			☒
G1				☐
G2				☐
G3	Jupiter APU			☒
T1				☐
D1				☐
S1				☐
S2				☐
S3				☐
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	1506.859	//		☒
Solar Power Indicators: > 0	22.835	//		☒
	0.0	//		
	32.19	//		
	32.135	//		

Item/Procedure	Readings					Comments	Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime			
Domain_Name=Host, Node=1, HW_SerNum=0x3332470b32363032001e0022 On=Y	OK //	23.7 //	108.5 //	Uptime: 0 days, 00:49:08 //			☒
Domain_Name=Bat-0x33324703313238340031002d, Node=3, HW_SerNum=0x33324703313238340031002d On=Y	OK //	26.2 //	116.9 //	Uptime: 0 days, 00:48:35 //			☒
Domain_Name=Thruder-2, Node=4, HW_SerNum=0x3437470330383638001f0033 On=Y	OK //	20.8 //	277.1 //	Uptime: 0 days, 00:41:57 //			☒

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	452.0 //	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2025-05-23T23:06:23.697Z,desiredHeading=237,compass=211.9,rack=11.5,post=14.4rudderStatu	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 (44m58.530s), ampsPower=false, powerThreadActive=false //	Catch release buoy by hand		☒
Octopus Cable 01	OK //	Must Pass		☒
Octopus Cable 02	OK //	Must Pass		☒
AIS Status	lastSeen=MMSI 338407295 (ONELOVE). Pos=36.813093, -121.787962. t=36:0:MOORED, 2025-05-23T23:06:28.958Z, lengthErrs=0, latlonErrs=0, broadcastCount=730, lastRx=1.552s, numberObserved=11, averageRxRateMillis=2.715s //	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=14.8°C, Press=1015.1mb, Wind Speed=5.32kn, Wind Dir=212.7°. Heading=152.9° //		☒

UBLOX GPS	2025-05-23T23:06:30Z@36.8023587,-121.7871462,lastRx=0.476s, quality=100, timeout=1m, nmeaValid=true, clockDt=0.537s, lastValidFix=2025-05-23T23:06:30Z@36.8023587,-121.7871462, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=9.68,std=0.59,min=8.00,max=10.00,n=300,hdop:sma=1.03,std=0.10,min=0.96,max=1.22,n=300,altitude:sma=-1.00,std=1.04,min=-3.70,max=1.20, //	//	✓
Airmar GPS	2025-05-23T23:06:29.600Z@36.8023883,-121.7871317,lastRx=0.906s, quality=80, timeout=5m, nmeaValid=true, clockDt=0.958s, lastValidFix=2025-05-23T23:06:29.600Z@36.8023883,-121.7871317, gpsWatchdogFailureCounter=0, ggaQCount:1=300,numSat:sma=8.93,std=0.26,min=8.00,max=9.00,n=300,hdop:sma=0.90,std=0.04,min=0.90,max=1.20,n=300,altitude:sma=7.31,std=0.69,min=6.20,max=8.40,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

Repair ding on the port rail!

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