

Readme

SV3 Pre-Launch Checklist

Date	2025-03-10T22:29:51.529Z	Glider Name	SV3-16977098 (SV3-034)
Tech(s)	cwahl	Organization	MBARI
Project	KBB Bioacoutics	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 (5d21h58m19.033s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false (no internet connectivity)	Still not working	☐
WGMS Iridium	IMEI:30043406000860, starts=1, r=4, w=6818, sessionAttempts=7592, sessionErrs=773, wErrs=0, rErrs=0, cErrs=1, 10m ss avg=4.2 (i=5), 1 queued msgs state=ATTEMPTING, sent=6818, lastTx=2m55.719s, avgTxSize=127.7B, totalTx=887.023kB, received=4, lastRx=5d21h33m54.531s, totalRx=0.158kB, powerState=ON (5d21h57m47.822s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]0 blocked messages, totalMessagesDiscarded=245, averageMessageQueueRate=1m11.740s, sent=6818, totalBytesSent=887.023kB, received=4, totalBytesReceived=0.158kB, lastRx=5d21h33m54.518s, 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]		☒
Location	Using GPSUblox, declination=12.513782, failoverCounter=1, timeLastSwitchedGps=2025-03-05T00:33:56.970Z, clockDt=2.449s		☒
Tracker telemetry received	Battery (Volts)15.75 Volts Report Rate4 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 v200		recently repaired and painted by Elkhorn composites	☒
Glider name	Hansen v200			☒
Umbilical Length	4m		Umbilical bushing recently replaced	☒
G1				☐
G2				☐
G3	JRF 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	1690.776			☒
Solar Power Indicators: > 0	3.504			☒
	0.0			
	4.136			
	4.52			

Item/Procedure	Readings					Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x3332470b32363032001e0022 On=Y	OK	23.7	112.0	Uptime: 5 days, 22:02:09		☒
Domain_Name=Bat-0x33324703313238340031002d, Node=3, HW_SerNum=0x33324703313238340031002d On=Y	OK	24.8	115.5	Uptime: 5 days, 21:54:54		☒
Domain_Name=Thrudder-2, Node=4, HW_SerNum=0x3437470330363638001f0033 On=Y	OK	21.7	283.2	Uptime: 5 days, 21:54:55		☒

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		☒
	Thrudder	Hardware secure		☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	Comments	Initials
Thruster Spin	459.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2025-03-10T22:29:50.170Z,desiredHeading=346,compass=11.1,rack=-11.4,post=-14.2rudderStat	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 (5d21h55m46.518s), ampsPower=false, powerThreadActive=false	Catch release buoy by hand	Not working... Replace release?	☐
Octopus Cable 01	OK	Must Pass		☒
Octopus Cable 02	OK	Must Pass		☒
AIS Status	lastSeen=MMSI 367139040 (R/V FULMAR). Pos=36.807102, -121.789612. t=59:0:NOT_DEFINED, 2025-03-10T22:29:43.622Z, lengthErrs=27, latlonErrs=0, broadcastCount=77272, lastRx=10.735s, numberObserved=10,	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=1010.0mb, Wind Speed=1.23kn, Wind Dir=341.7°. Heading=320.8°		☒

UBLOX GPS	2025-03-10T22:29:57Z@36.8023978,-121.7871892,lastRx=0.353s, quality=100, timeout=1m, nmeaValid=true, clockDt=2.628s, lastValidFix=2025-03-10T22:29:57Z@36.8023978,-121.7871892, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=9.86,std=0.34,min=9.00,max=10.00,n=300,hdop:sma=0.88,std=0.04,min=0.86,max=0.96,n=300,altitude:sma=1.56,std=1.33,min=-1.20,max=3.30,n=300		
Airmar GPS	2025-03-10T22:29:56.880Z@36.8024033,-121.7871583,lastRx=0.511s, quality=80, timeout=5m, nmeaValid=true, clockDt=2.497s, lastValidFix=2025-03-10T22:29:56.880Z@36.8024033,-121.7871583, gpsWatchdogFailureCounter=0, ggaQCount:1=300,numSat:sma=8.17,std=0.60,min=7.00,max=9.00,n=300,hdop:sma=1.00,std=0.11,min=0.90,max=1.30,n=300,altitude:sma=3.95,std=0.61,min=3.00,max=5.40,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

Fiberglass hull repaired and painted. Umbilical bushing replaced.

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