

SV3 Pre-Launch Checklist

Date	2023-10-17T22:37:26.084Z	Glider Name	SV3-1167408762 (SV3-029)
Tech(s)	cwahl	Organization	MBARI
Project	BWO	Ship/Op Area	Paragon MB

Software Information

Regulus Version	SV3-029, sn=1167408762, 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=OFF (37m11.783s), virtualDevice=true, powerThreadActive=false (no internet connectivity)	Still not working...	☐
WGMS Iridium	IMEI:300434060620290, starts=1, r=2, w=80, sessionAttempts=94, sessionErrs=13, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.4 (i=4), 0 queued msgs state=TALKING, sent=80, lastTx=9.765s, avgTxSize=138.2B, totalTx=10.795kB, received=2, lastRx=14m27.611s, avgRxSize=39.0B, totalRx=0.076kB, powerState=ON (36m43.536s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]245 blocked messages, averageMessageQueueRate=16.947s, sent=80, totalBytesSent=10.795kB, received=2, totalBytesReceived=0.076kB, lastRx=14m27.651s, 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=2023-10-17T22:02:33Z, clockDt=3.735s		☒
Location	Using GPSUblox, declination=12.645742, failoverCounter=1, timeLastSwitchedGps=2023-10-17T22:02:33Z, clockDt=3.735s		☒
Tracker telemetry received	Battery (Volts)	15.6 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 SV3-029			☒
Float name	Hansen			☒
Glider name	Hansen			☒
Umbilical Length	4m			☒
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	1628.077		☒

Solar Power Indicators: > 0	3.479	/		☒
	0.0	/		
	3.523	/		
	5.027	/		

Item/Procedure	Readings					
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x31324716393237390034002c On=Y	OK	25.4	118.2	Uptime: 0 days, 00:41:10		☒
Domain_Name=Bat-0x33324703313238340031002d, Node=3, HW_SerNum=0x33324703313238340031002d On=Y	OK	25.7	114.3	Uptime: 0 days, 00:37:29		☒
Domain_Name=Thrudder-2, Node=4, HW_SerNum=0x474850052038384d0057002b On=Y	OK	25.8	282.6	Uptime: 0 days, 00:34:13		☒

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	456.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2023-10-17T22:37:24.285Z,desiredHeading=350.4,compass=15.5,rack=-11.4,post=-14.7rudderSt	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 (34m41.091s), 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 338412569 (CALLIE). Pos=36.802597, -121.785947. t=36:0:NOT_DEFINED, 2023-10-17T22:37:34.157Z, lengthErrs=0, latlonErrs=0, broadcastCount=500, lastRx=0.999s, numberObserved=10, averageRxRateMillis=1.201s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=20.5°C, Press=1012.9mb, Wind Speed=2.26kn, Wind Dir=354.9°. Heading=62.8°		☒
UBLOX GPS	2023-10-17T22:37:39Z@36.8024253,-121.78716,lastRx=0.521s, quality=100, timeout=1m, nmeaValid=true, clockDt=3.767s, lastValidFix=2023-10-17T22:37:39Z@36.8024253,-121.78716, gpsWatchdogFailureCounter=0, ggaQCount=2=300,numSat:sma=8.59,std=0.49,min=8.00,max=9.00,n=300,hdop:sma=1.15,std=0.03,min=1.06,max=1.16,n=300,altitude:sma=0.07,std=0.62,min=-2.10,max=1.20,n=300		☒
Airmar GPS	2023-10-17T22:37:38.900Z@36.8024167,-121.7871967,lastRx=0.569s, quality=80, timeout=5m, nmeaValid=true, clockDt=3.630s, lastValidFix=2023-10-17T22:37:38.900Z@36.8024167,-121.7871967, gpsWatchdogFailureCounter=0, ggaQCount=2=300,numSat:sma=9.56,std=0.50,min=9.00,max=10.00,n=300,hdop:sma=0.99,std=0.10,min=0.90,max=1.10,n=300,altitude:sma=6.87,std=1.71,min=3.40,max=10.20,n=300		☒
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

Airmar replaced with used one from stock.

Technician Signature: cwah1

SV3-029: SV3 Pre-Launch Checklist

- 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