

SV3-029: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2023-06-06T23:49:08.982Z	Glider Name	SV3-1167408762 (SV3-029)
Tech(s)	cwahl	Organization	MBARI
Project	KBB Acoustics Inner Canyon	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 (5d50m50.323s), virtualDevice=true, powerThreadActive=false (no internet connectivity)	Still not working	☒
WGMS Iridium	IMEI:300434060620290, starts=1, r=9, w=9432, sessionAttempts=10759, sessionErrs=1322, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=3.8 (i=3), 0 queued msgs state=TALKING, sent=9432, lastTx=2.934s, avgTxSize=102.2B, totalTx=1011.669kB, received=9, lastRx=2h24m29.886s, totalRx=0.338kB, powerState=ON (5d50m23.854s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]0 blocked messages, totalMessagesDiscarded=245, averageMessageQueueRate=50.882s, sent=9432, totalBytesSent=1011.669kB, received=9, totalBytesReceived=0.338kB, lastRx=2h24m29.894s, 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=9, #handled=9, lastRx=rx=2023-06-		☒
Location	Using GPSUblox, declination=12.681737, failoverCounter=1, timeLastSwitchedGps=2023-06-01T23:00:33.010Z, clockDt=3.958s		☒
Tracker telemetry received	Battery (Volts) Report Rate	15.7 volts 4 hours	☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Hansen Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	CCU SV3-029		software updated to 3.2.2	☒
Float name	Hansen			☒
Glider name	Hansen			☒
Umbilical Length	4m		"new" used JRF umbilical	☒
G1				☐
G2				☐
G3	APU		new JRF APU not charged	☒
T1				☐
D1				☐
S1				☐
S2				☐
S3				☐
S4	Airmar weather station			☒
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
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Battery [vWn] > /UU Wn		802.381	APU installed but not charged		☒
Solar Power Indicators: > 0	3.527	//			☐
	0.0	//			
	0.689	//			
	3.093	//			

Item/Procedure		Readings					Initials
Domain Info		AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	
Domain_Name=Host, Node=1, HW_SerNum=0x31324716393237390034002c On=Y		OK //	25.3 //	116.7 //	Uptime: 5 days, 00:53:53 //		☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x474850052038384d0057002b On=Y		OK //	23.0 //	279.1 //	Uptime: 5 days, 00:46:42 //		☒
Domain_Name=Bat-0x33324703313238340031002d, Node=6, HW_SerNum=0x33324703313238340031002d On=Y		OK //	22.6 //	113.2 //	Uptime: 0 days, 00:04:26 //		☒

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	recently serviced thruder	☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	Comments	Initials
Thruster Spin	457.0 //	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2023-06-06T23:49:07.110Z,desiredHeading=1,compass=25.9,rack=-11.4,post=-12.6rudderStatus	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 (5d48m17.130s), 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 367742810 (JOHN H MARTIN). Pos=36.804022, -121.786138. t=37:0:NOT_DEFINED, 2023-06-06T23:48:41.745Z, lengthErrs=10, latlonErrs=1, broadcastCount=23861, lastRx=31.426s, numberObserved=8, averageRxRateMillis=7.831s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=17.6°C, Press=1027.7mb, Wind Speed=1.72kn, Wind Dir=232.5°. Heading=1.6° //		☒
UBLOX GPS	2023-06-06T23:49:17Z@36.8024713,-121.7871708,lastRx=0.736s, quality=100, timeout=1m, nmeaValid=true, clockDt=3.802s, lastValidFix=2023-06-06T23:49:17Z@36.8024713,-121.7871708, gpsWatchdogFailureCounter=0, ggaQCount=2=300,numSat:sma=10.51,std=0.86,min=8.00,max=12.00,n=300,hdop:sma=0.99,std=0.11,min=0.87,max=1.29,n=300,altitude:sma=1.70,std=1.93,min=-1.10,max=5.60, //		☒
Airmar GPS	2023-06-06T23:49:17.200Z@36.80254,-121.7872083,lastRx=0.425s, quality=80, timeout=5m, nmeaValid=true, clockDt=3.802s, lastValidFix=2023-06-06T23:49:17.200Z@36.80254,-121.7872083, gpsWatchdogFailureCounter=0, ggaQCount=2=300,numSat:sma=9.55,std=0.50,min=9.00,max=10.00,n=300,hdop:sma=1.10,std=0.09,min=1.00,max=1.20,n=300,altitude:sma=5.22,std=4.36,min=-6.80,max=14.00, //		☒
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

"compass failure" on last deployment. Wave Glider drifted south and was towed to Cypress Point by Tow Boat USA on a weekend. The Paragon recovered the Wave Glider the next Monday. Umbilical was damaged but not sure when? Umbilical, thruder, and external compass were replaced. Oh also, APU was repalced with another JRF one due to WGMs alarms.

Technician Signature:

- 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