

SV3-110: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2023-04-05T22:45:10.982Z	Glider Name	SV3-466563798 (SV3-110)
Tech(s)	cwahl	Organization	MBARI
Project	ECOHAB/MBTS	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, LogAlarmReporter, PortForwarder, RudderParametersManager, ThrudderDiagnosticsFixer, ThrusterAdjuster Not running: GPSasRudderCompass

Communication

Item/Procedure	Readings	Comments	Initials
WiFi Connection	WiFi is On		☒
Virtual Relay	0 queued msgs state=WAITING, sent=0, received=0, powerState=OFF (1d5h50m52.645s), virtualDevice=true, powerThreadActive=false (no internet connectivity)	Cell still not working	☐
WGMS Iridium	IMEI:300434060354880, starts=1, r=20, w=6259, sessionAttempts=6670, sessionErrs=404, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=2.9 (i=5), 1 queued msgs state=TALKING, sent=6259, lastTx=4.425s, avgTxSize=153.4B, totalTx=1117.479kB, received=20, lastRx=53m39.927s, avgRxSize=50.3B, totalRx=0.770kB, powerState=ON (1d5h50m25.702s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]572 blocked messages, totalMessagesDiscarded=317, averageMessageQueueRate=11.082s, sent=6259, totalBytesSent=1117.479kB, received=20, totalBytesReceived=0.770kB, lastRx=53m40.406s, 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=20, #handled=20, lastRx=rx=2023-04-		☒
Location	Using GPSUblox, declination=12.696993, failoverCounter=1, timeLastSwitchedGps=2023-04-04T16:56:33Z, cLockDt=2.454s		☒
Tracker telemetry received	Battery (Volts) Report Rate	15.8 4 hours	☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Tiny Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	CCU SV3-110			☒
Float name	Tiny			☒
Glider name	Tiny v150			☒
Umbilical Length	4m			☒
G1	ECOPUCK			☒
G2				☐
G3				☐
T1				☐
D1				☐
S1	Hotspot 3 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
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Battery [Wh] > 700 Wh	940.695						
Solar Power Indicators: > 0	4.067 0.0 4.829 7.748						

Item/Procedure	Readings					
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x32385119353634330055004a On=Y	OK	23.9	115.8	Uptime: 1 day, 05:53:41		
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y	OK	14.8	131.7	Uptime: 1 day, 05:46:14		
Domain_Name=PyldInt-0x3333511437330300043001a, Node=5, HW_SerNum=0x3333511437330300043001a On=Y	OK	21.7	114.2	Uptime: 0 days, 01:59:34		

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(2023-04-05T22:45:09.612Z,desiredHeading=290.2,compass=101.7,rack=-11.4,post=-7rudderStat	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 (1d5h48m25.331s), 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 366934770 (NOAHS ARK). Pos=36.804337, -121.785207. t=30:0:FISHING, 2023-04-05T22:45:07.995Z, lengthErrs=0, latlonErrs=3, broadcastCount=16504, lastRx=10.283s, numberObserved=15, averageRxRateMillis=9.809s	If in harbor, must see MMSI		
Photo Document				

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=12.3°C, Press=1021.9mb, Wind Speed=6.07kn, Wind Dir=275.3°. Heading=119.0°		
UBLOX GPS	2023-04-05T22:45:21Z@36.8023965,-121.7871667,lastRx=0.363s, quality=100, timeout=1m, nmeaValid=true, clockDt=2.680s, lastValidFix=2023-04-05T22:45:21Z@36.8023965,-121.7871667, gpsWatchdogFailureCounter=0, ggaQCount=2=300,numSat=sma=10.31,std=0.96,min=8.00,max=11.00,n=300,hdop:sma=1.11,std=0.21,min=0.93,max=1.65,n=300,altitude:sma=0.63,std=1.07,min=-1.20,max=3.80,		
Airmar GPS	2023-04-05T22:45:21.090Z@36.8024067,-121.7871883,lastRx=0.304s, quality=80, timeout=5m, nmeaValid=true, clockDt=2.740s, lastValidFix=2023-04-05T22:45:21.090Z@36.8024067,-121.7871883, gpsWatchdogFailureCounter=0, ggaQCount=2=300,numSat=sma=10.00,std=0.06,min=9.00,max=10.00,n=300,hdop:sma=1.00,std=0.02,min=1.00,max=1.20,n=300,altitude:sma=5.44,std=0.80,min=4.10,max=6.60,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

WG Tiny ECOHAB deployment pushed up. ECOPEUCK GPS might not be working? Will try a reset before deployment.

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

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Clear User Input