

SV3-110: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2023-07-07T20:23:40.800Z	Glider Name	SV3-466563798(SV3-110)
Tech(s)	Jordan, Chris	Organization	MBARI
Project	PIE / MBTS	Ship/Op Area	Paragon / Monterey Bay

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, GPSasRudderCompass, LogAlarmReporter, PortForwarder, RudderParametersManager, ThrudderDiagnosticsFixer, ThrusterAdjuster

Communication

Item/Procedure	Readings	Comments	Initials
WiFi Connection	WiFi is On		☒
Virtual Relay	0 queued msgs state=WAITING, sent=0, received=0, powerState=OFF (1h35m34.454s), virtualDevice=true, powerThreadActive=false (no internet connectivity)	Not Used Anymore	☐
WGMS Iridium	IMEI:300434060354880, starts=1, r=11, w=190, sessionAttempts=237, sessionErrs=40, wErrs=0, rErrs=0, cErrs=1, 10m ss avg=3.5 (i=5), 1 queued msgs state=ATTEMPTING, sent=190, lastTx=23.954s, avgTxSize=113.8B, totalTx=21.648kB, received=11, lastRx=2m55.142s, avgRxSize=37.3B, totalRx=0.413kB, powerState=ON (1h35m5.292s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false	Appears to be talking on WGMS	☒
Vehicle telemetry received	totalBytesSent=21.648kB, received=11, totalBytesReceived=0.413kB, lastRx=2m55.159s, 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=11, #handled=11, lastRx=rx=2023-07-07T20:20:45.700Z, receiver=iridiumModem, headerByte=0x0A, length=25],UnsupportedMessageHandler[active=true, #handled=0], minimumMTU=338		☒
Location	Using GPSUblox, declination=12.672394, failoverCounter=1, timeLastSwitchedGps=2000-01-01T18:50:33Z, clockDt=-0.893s		☒
Tracker telemetry received	Battery (Volts)15.63 Report Rate4 hrs		☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Tiny Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	Tiny			☒
Float name	Tiny			☒
Glider name	Tiny			☒
Umbilical Length	4m			☒
G1	Eco Puck			☒
G2				☐
G3				☐
T1				☐
D1				☐
S1	Hot Spot (with MF DAT)			☒
S2	GPCTD			☒

	PCo2			
S4				☒
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	783.303		☒
Solar Power Indicators: > 0	20.1 0.0 22.657 30.529		☒

Item/Procedure	Readings					Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x32385119353634330055004a On=Y	OK	30.2	119.1	Uptime: 0 days, 01:37:48		☒
Domain_Name=Thrudder-2, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y	OK	22.7	142.3	Uptime: 0 days, 01:29:37		☒
Domain_Name=PyldInt-0x33335114373330300043001a, Node=5, HW_SerNum=0x33335114373330300043001a On=Y	OK	27.2	117.4	Uptime: 0 days, 01:26:57		☒

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		☒
	Thrudder	Hardware secure		☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	Comments	Initials
Thruster Spin	456.0	Spins freely, slow and fast speeds	Slow	☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2023-07-07T20:23:38.975Z,desiredHeading=271.4,compass=296.5,rack=-12.9,post=-10.6rudderS	Right, Left, Center		☒
Thrudder Compass Correction	Thrudder compass is corrected	recommended NOT corrected	LR says ok	☐
Fixed heading test (spin)	287	Avoidance Off, Note Heading Used		☒
Waypoint course test (spin)	41	Avoidance Off, Note Waypoint Course Used		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=1, waitTime=1m30s, powerState=OFF (8m34.339s), 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=36.804253, -121.785213. t=30:0:FISHING, 2023-07-07T20:23:36.279Z, lengthErrs=0, latlonErrs=0, broadcastCount=856, lastRx=10.320s, numberObserved=10, averageRxRateMillis=9.810s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=18.1°C, Press=1012.8mb, Wind Speed=3.50kn, Wind Dir=107.7°. Heading=311.9°		☒
UBLOX GPS	timeout=1m, nmeaValid=true, clockDt=0.628s, lastValidFix=2023-07-07T20:23:46Z@36.802576,-121.7870703, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=10.74,std=0.44,min=10.00,max=11.00,n=300,hdop:sma=0.98,std=0.00,min=0.98,max=0.98,n=300,altitude:sma=2.37,std=0.85,min=0.60,max=3.90,n=300		☒
Airmar GPS	2023-07-07T20:23:46.100Z@36.802605,-121.787075,lastRx=0.300s, quality=80, timeout=5m, nmeaValid=true, clockDt=0.551s, lastValidFix=2023-07-07T20:23:46.100Z@36.802605,-121.787075, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=11.00,std=0.00,min=11.00,max=11.00,n=300,hdop:sma=1.00,std=0.00,min=1.00,max=1.00,n=300,altitude:sma=1.61,std=0.65,min=0.40,max=2.40,		☒
Torpedo GPS	Not Available!		☒
Water speed readings	Unknown speed; ncc=0, nci=0, tec=0, aip=0.00		☒
Obstacle Avoidance Status	Disabled	Was Reenabled	☒
Check alarms	"Out of bounds" red. All yellow/green		☒

General Comments

Technician Signature:

Jordan Caress

- 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