



SV3-121: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2021-03-18T15:49:40.754Z	Glider Name	SV3-1531399927(SV3-121)
Tech(s)	cwahl	Organization	MBARI
Project	Bioacoustics	Ship/Op Area	Shana Rae MB

Software Information

Regulus Version	SV3-121, sn=1531399927, Running Regulus 3.2.2, software version of 2019-12-03T23:58:34Z, production build 35, sv3, SOMDM3730-31-1880AKIR-A, (1.2.3) secure
Plugins	Running: AirmarWeather, LogAlarmReporter, PortForwarder, 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=ON (20h16m46.876s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false (no internet connectivity)		☒
WGMS Iridium	IMEI:300434060771430, starts=1, r=4, w=932, sessionAttempts=1215, sessionErrs=276, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.5 (i=5), 0 queued msgs state=TALKING, sent=932, lastTx=20.155s, avgTxSize=100.5B, totalTx=96.758kB, received=4, lastRx=19h21m13.079s, totalRx=0.125kB, powerState=ON (20h16m20.272s),		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]0 blocked messages, totalMessagesDiscarded=274, averageMessageQueueRate=1m23.140s, sent=932, totalBytesSent=96.758kB, received=4, totalBytesReceived=0.125kB, lastRx=19h21m13.140s, 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		☒
Location	Using GPSUblox, declination=12.890979, failoverCounter=2, timeLastSwitchedGps=2021-03-17T19:35:28Z, clockDt=0.038s		☒
Tracker telemetry received	Battery (Volts) 15.7 Report Rate 4 hrs	Fresh Batteries!	☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Hansen Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	SV3-121 MBARI Spare			☒
Float name	Hansen			☒
Glider name	Hansen			☒
Umbilical Length	4m			☒
G1				☐
G2				☐
G3	APU			☒
T1				☐
D1				☐
S1				☐
S2				☐
S3				☐
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	1589.688		☒
Solar Power Indicators: > 0	3.88 0.0 3.855 4.418		☒

Item/Procedure	Readings				Comments	Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime		
Domain_Name=Host, Node=1, HW_SerNum=0x333451153936383700260039 On=Y	OK	16.8	117.3	Uptime: 0 days, 20:23:52		☒
Domain_Name=Bat-0x474850072038384d00380042, Node=3, HW_SerNum=0x474850072038384d00380042 On=Y	OK	13.4	109.7	Uptime: 36 days, 17:43:15		☒
Domain_Name=Thruder-2, Node=4, HW_SerNum=0x3437470330383638001f0033 On=Y	OK	11.0	161.4	Uptime: 0 days, 20:14:15		☒

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	0.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2021-03-18T15:49:37.001Z,desiredHeading=180,compass=193.2,rack=-10.8,post=-10.2rudde	Right, Left, Center		☒
Thruder Compass Correction	Thruder compass is corrected	recommended NOT corrected	LR says okay	☒
Fixed heading test (spin)	180	Avoidance Off, Note Heading Used		☒
Waypoint course test (spin)	75	Avoidance Off, Note Waypoint Course Used		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m30s, powerState=OFF (20h14m22.964s), 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 367711540 (QUEEN CORINNE). Pos=36.804727, -121.785107. t=30:0:NOT_DEFINED, 2021-03-18T15:49:17.298Z, lengthErrs=0, latlonErrs=0, broadcastCount=5200, lastRx=27.327s, numberObserved=7,	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=10.0°C, Press=1021.9mb, Wind Speed=1.96kn, Wind Dir=143.6°. Heading=163.3°		☒
UBLOX GPS	2021-03-18T15:49:45Z@36.8024682,-121.7871192,lastRx=0.209s, quality=100, timeout=1m, nmeaValid=true, clockDt=0.338s, lastValidFix=2021-03-18T15:49:45Z@36.8024682,-121.7871192, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=11.70,std=0.46,min=11.00,max=12.00,n=300,hdpoc:sma=1.09,std=0.00,min=1.09,max=1.11,n=300,altitude:sma=1.75,std=1.09,min=-0.60,		☒
Airmar GPS	2021-03-18T15:49:44.800Z@36.8024683,-121.7870983,lastRx=0.435s, quality=80, timeout=5m, nmeaValid=true, clockDt=0.118s, lastValidFix=2021-03-18T15:49:44.800Z@36.8024683,-121.7870983, gpsWatchdogFailureCounter=0, ggaQCount:1=7,2=293,numSat:sma=10.87,std=0.34,min=10.00,max=11.00,n=300,hdpoc:sma=0.89,std=0.03,min=0.80,max=0.90,n=300,altitude:sma=7.63,std=3.38,min=-0		☒
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		☒

EK80 installed!

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