

Readme

SV3 Pre-Launch Checklist

Date	2020-12-03T22:33:20.780Z	Glider Name	SV3-1531399927(SV3-121)
Tech(s)	cwahl	Organization	MBARI
Project	KBB Bioacoustics	Ship/Op Area	Paragon 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 (22h39m19.044s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false (no internet connectivity)		☒
WGMS Iridium	IMEI:300434060771430, starts=1, r=12, w=1811, sessionAttempts=1992, sessionErrs=178, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.7 (i=5), 0 queued msgs state=TALKING, sent=1811, lastTx=27.455s, avgTxSize=187.5B, totalTx=289.416kB, received=12, lastRx=4h55m8.561s, totalRx=0.482kB, powerState=ON (22h38m50.692s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]0 blocked messages, totalMessagesDiscarded=274, averageMessageQueueRate=24.638s, sent=1811, totalBytesSent=289.416kB, received=12, totalBytesReceived=0.482kB, lastRx=4h55m8.607s, 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=12, #handled=12,		☒
Location	Using GPSUblox, declination=12.918061, failoverCounter=1, timeLastSwitchedGps=2020-12-02T23:56:51Z, clockDt=-2.004s		☒
Tracker telemetry received	Battery (Volts)15.6 volt Report Rate4 hrs		☒

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	Light/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	1718.368		☒
Solar Power Indicators: > 0	3.034 0.0 4.007 4.784		☒

Item/Procedure	Readings				Comments	Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime		
Domain_Name=Host, Node=1, HW_SerNum=0x33451153936383700260039 On=Y	OK	23.9	120.7	Uptime: 0 days, 22:44:48		☒
Domain_Name=Bat-0x474850072038384d00380042, Node=3, HW_SerNum=0x474850072038384d00380042 On=Y	OK	20.6	113.0	Uptime: 0 days, 22:46:37		☒
Domain_Name=Thruder-2, Node=4, HW_SerNum=0x3437470330383638001f0033 On=Y	OK	18.0	178.2	Uptime: 0 days, 22:34:20		☒

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	minor chaffing from a recent deployment	☒
	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(2020-12-03T22:33:20.067Z,desiredHeading=236.3,compass=18.1,rack=-19.9,post=-21.8rudd	Right, Left, Center		☒
Thruder Compass Correction	Thruder compass is corrected	recommended NOT corrected	LR said okay	☐
Fixed heading test (spin)	180	Avoidance Off, Note Heading Used		☒
Waypoint course test (spin)	42	Avoidance Off, Note Waypoint Course Used		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m30s, powerState=OFF (22h36m54.040s), 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 366966550 (OCEAN ANGEL 2). Pos=36.804825, -121.784982. t=30:0:NOT_DEFINED, 2020-12-03T22:33:18.896Z, lengthErrs=0, latlonErrs=0, broadcastCount=16589, lastRx=5.654s, numberObserved=14,	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=14.9°C, Press=1017.7mb, Wind Speed=2.85kn, Wind Dir=260.6°. Heading=357.9°		☒
UBLOX GPS	2020-12-03T22:33:23Z@36.8024152,-121.7871435,lastRx=0.069s, quality=100, timeout=1m, nmeaValid=true, clockDt=1.603s, lastValidFix=2020-12-03T22:33:23Z@36.8024152,-121.7871435, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=10.61,std=0.55,min=10.00,max=12.00,n=300,hdop:sma=0.97,std=0.08,min=0.83,max=1.02,n=300,altitude:sma=-0.15,std=0.94,min=-2.50		☒
Airmar GPS	2020-12-03T22:33:22.800Z@36.8024283,-121.7871533,lastRx=0.349s, quality=80, timeout=5m, nmeaValid=true, clockDt=1.829s, lastValidFix=2020-12-03T22:33:22.800Z@36.8024283,-121.7871533, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=10.00,std=0.00,min=10.00,max=10.00,n=300,hdop:sma=0.81,std=0.03,min=0.80,max=0.90,n=300,altitude:sma=-0.61,std=4.59,min=-7.70		☒
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		☒

SV3-121: SV3 Pre-Launch Checklist

General Comments

Makeup Bioacoustics mission for days missed during the last deployment when Iridium went out.
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