

SV3-121: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2022-05-25T16:41:56.724Z	Glider Name	SV3-1531399927(SV3-121)
Tech(s)	cwahl	Organization	MBARI
Project	AyeRIS	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, GPSasRudderCompass, LogAlarmReporter, PortForwarder, RudderParametersManager, ThrusterAdjuster, Winch

Communication

Item/Procedure	Readings	Comments	Initials
WiFi Connection	Wifi is On		☒
Virtual Relay	0 queued msgs state=WAITING, sent=0, received=0, powerState=ON (16h29m16.719s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false (no internet connectivity)	Not working 3G no longer working	☐
WGMS Iridium	IMEI:300434060771430, starts=1, r=6, w=1110, sessionAttempts=1200, sessionErrs=84, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=3.4 (i=5), 1 queued msgs state=TALKING, sent=1110, lastTx=1.258s, avgTxSize=112.5B, totalTx=114.268kB, received=6, lastRx=20m30.322s, avgRxSize=39.0B, totalRx=0.201kB, powerState=ON (16h28m52.738s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]2 blocked messages, totalMessagesDiscarded=409, averageMessageQueueRate=34.870s, sent=1110, totalBytesSent=114.268kB, received=6, totalBytesReceived=0.201kB, lastRx=20m30.363s, 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=6, #handled=6, lastRx=rx=2022-05-		☒
Location	Using GPSublox, declination=12.7787485, failoverCounter=1, timeLastSwitchedGps=2022-05-25T00:14:57Z, clockDt=1.049s		☒
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	SV3-121 Spare			☒
Float name	Hansen			☒
Glider name	Hansen			☒
Umbilical Length	4m			☒
G1				☐
G2				☐
G3	APU			☒
T1				☐
D1				☐
S1	Hotspot 3			☒
S2				☐
S3				☐
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	1695.066	//		☒
Solar Power Indicators: > 0	15.826 0.0 16.559 18.379	// // // //		☒

Item/Procedure	Readings					
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x474850072038384d00390021 On=Y	OK	21.7	119.3	Uptime: 0 days, 16:34:03		☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x333451063030373500530054 On=Y	OK	18.0	142.0	Uptime: 0 days, 16:26:14		☒
Domain_Name=Bat-0x474850072038384d00380042, Node=4, HW_SerNum=0x474850072038384d00380042 On=Y	OK	18.0	110.4	Uptime: 0 days, 16:36:29		☒

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	461.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2022-05-25T16:41:55.340Z,desiredHeading=30.6,compass=55.4,rack=-11.4,post=-11.5rudderSta	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)	41	Avoidance Off, Note Waypoint Course Used		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m30s, powerState=OFF (16h26m48.184s), 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 367005910 (BLACKFIN). Pos=36.805635, -121.785665. t=60:0:NOT_DEFINED, 2022-05-25T16:41:55.586Z, lengthErrs=0, latlonErrs=0, broadcastCount=3237, lastRx=5.816s, numberObserved=10, averageRxRateMillis=12.897s,	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=11.3°C, Press=1013.6mb, Wind Speed=5.72kn, Wind Dir=2.1°. Heading=88.2°		☒
UBLOX GPS	2022-05-25T16:42:03Z@36.8023293,-121.787151,lastRx=0.050s, quality=100, timeout=1m, nmeaValid=true, clockDt=1.026s, lastValidFix=2022-05-25T16:42:03Z@36.8023293,-121.787151, gpsWatchdogFailureCounter=0, ggaQCount:1=300,numSat:sma=10.91,std=0.29,min=10.00,max=11.00,n=300,hdp:sma=0.82,std=0.12,min=0.73,max=1.04,n=300,altitude:sma=0.99,std=0.84,min=-0.70,max=3.30		☒
Airmar GPS	2022-05-25T16:42:02.700Z@36.802345,-121.78718,lastRx=0.087s, quality=80, timeout=5m, nmeaValid=true, clockDt=0.693s, lastValidFix=2022-05-25T16:42:02.700Z@36.802345,-121.78718, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=11.00,std=0.00,min=11.00,max=11.00,n=300,hdp:sma=0.70,std=0.00,min=0.70,max=0.70,n=300,altitude:sma=12.83,std=3.91,min=6.30,max=21.6		☒
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

AyeRIS/Galene tracking and testing for Ivan.

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