

SV3-121: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2021-06-25T17:22:19.300Z	Glider Name	SV3-1531399927(SV3-121)
Tech(s)	cwah1	Organization	MBARI
Project	DMO test	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	Initial
WiFi Connection	WiFi is On		☒
Virtual Relay	0 queued msgs state=TALKING, sent=1217, lastTx=10.637s, avgTxSize=226.6B, totalTx=331.791kB, received=7, lastRx=10.614s, avgRxSize=5.0B, totalRx=6.346kB, powerState=ON (17h42m16.005s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false, (67/67 success rate), sleepTime=120000, packetSize=8192,		☒
WGMS Iridium	IMEI:300434060771430, starts=1, r=4, w=6, sessionAttempts=353, sessionErrs=1, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=3.0 (i=5), 0 queued msgs state=TALKING, sent=6, lastTx=17h38m3.863s, totalTx=0.599kB, received=4, lastRx=1h3m9.754s, totalRx=0.066kB, powerState=ON (17h41m46.110s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]0 blocked messages, totalDuplicateIncomingMessagesFound=1, averageMessageQueueRate=53.208s, sent=1223, totalBytesSent=332.390kB, received=11, totalBytesReceived=6.412kB, lastRx=1h3m9.765s, 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,		☒
Location	Using GPSUblox, declination=12.8652525, failoverCounter=2, timeLastSwitchedGps=2021-06-24T23:42:27Z, clockDt=0.638s		☒
Tracker telemetry received	Battery (Volts)	15.6 volts	☒
	Report Rate	4 hours	

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Hansen Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	SV3-0121			☒
Float name	Hansen SV3-272			☒
Glider name	Hansen SV3-272			☒
Umbilical Length	4m			☒
G1				☐
G2				☐
G3	APU			☒
T1				☐
D1				☐
S1	Hotspot 3 with MF DAT			☒
S2				☐
S3				☐
S4	Airmar		corrosion issues with S4 bulkhead	☒
Event definitions		Compare against standard list		☒
Vehicle and tracker op		Note area name(s) and enable alarms		☒

Vehicle Status

Item/Procedure	Readings	Comments	Initials
Battery [Wh] > 700 Wh	1645.458 //		☒
Solar Power Indicators: > 0	20.053 0.0 18.794 0.594 // // // //		☒

Item/Procedure	Readings				Comments	Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime		
Domain_Name=Bat-Ox474850072038384d00380042, Node=3, HW_SerNum=0x474850072038384d00380042 On=Y	OK //	21.7 //	113.7 //	Uptime: 1 day, 22:00:26 //		☒
Domain_Name=Thruder-2, Node=4, HW_SerNum=0x3437470330383638001f0033 On=Y	OK //	19.4 //	177.1 //	Uptime: 0 days, 17:37:53 //		☒
Domain_Name=Host, Node=25, HW_SerNum=0x333451153936383700260039 On=Y	OK //	26.4 //	121.8 //	Uptime: 0 days, 17:51:01 //		☒

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	lower bushing worn replace!	☒
	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	450.0 //	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2021-06-25T17:22:17.557Z,desiredHeading=216.4,compass=206.4,rack=7,post=11.9rudderSt	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)	21	Avoidance Off, Note Waypoint Course Used		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m30s, powerState=OFF (17h39m43.600s), 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 338303904 (PACIFIC SNAPPER). Pos=36.802423, -121.784675. t=37:0:NOT_DEFINED, 2021-06-25T17:22:21.010Z, lengthErrs=0, latlonErrs=0, broadcastCount=11478, lastRx=1.757s, numberObserved=12,	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=15.8°C, Press=1017.2mb, Wind Speed=4.19kn, Wind Dir=255.6°. Heading=241.9°		☒
UBLOX GPS	2021-06-25T17:22:24Z@36.8022735,-121.7868312,lastRx=0.024s, quality=100, timeout=1m, nmeaValid=true, clockDt=1.189s, lastValidFix=2021-06-25T17:22:24Z@36.8022735,-121.7868312, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=8.35,std=0.69,min=7.00,max=9.00,n=300,hdop:sma=1.50,std=0.01,min=1.48,max=1.53,n=300,altitude:sma=0.01,std=2.18,min=-4.60,max		☒
Airmar GPS	2021-06-25T17:22:23.200Z@36.8022633,-121.786835,lastRx=0.669s, quality=80, timeout=5m, nmeaValid=true, clockDt=0.370s, lastValidFix=2021-06-25T17:22:23.200Z@36.8022633,-121.786835, gpsWatchdogFailureCounter=0, ggaQCount:1=13,2=287,numSat:sma=7.00,std=0.00,min=7.00,max=7.00,n=300,hdop:sma=1.40,std=0.02,min=1.40,max=1.50,n=300,altitude:sma=9.05,std=3.50,min=0.60		☒
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

MF DAT 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