

SV3-121: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2022-02-01T22:14:46.756Z	Glider Name	SV3-1531399927(SV3-121)
Tech(s)	cwahl	Organization	MBARI
Project	WetWiFi	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=TALKING, sent=1862, lastTx=7.380s, avgTxSize=192.4B, totalTx=459.166kB, received=6, lastRx=7.371s, avgRxSize=5.0B, totalRx=9.478kB, powerState=ON (22h51m51.836s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false, (68/69 success rate), sleepTime=120000, packetSize=8192, numberOfDoTransactionFailures=6,		☒
WGMS Iridium	IMEI:300434060771430, starts=1, r=8, w=14, sessionAttempts=1154, sessionErrs=0, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.0 (i=5), 0 queued msgs state=TALKING, sent=14, lastTx=22h46m56.573s, totalTx=1.496kB, received=8, lastRx=3h42m13.538s, totalRx=0.291kB, powerState=ON (22h51m27.468s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]0 blocked messages, averageMessageQueueRate=1m2.002s, sent=1876, totalBytesSent=460.662kB, received=14, totalBytesReceived=9.769kB, lastRx=3h42m13.545s, 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=14, #handled=14, lastRx=rx=2022-02-01T18:32:33.244Z, receiver=iridiumModem,		☒
Location	Using GPSublox, declination=12.808214, failoverCounter=2, timeLastSwitchedGps=2022-01-31T23:25:03.010Z, clockDt=0.180s		☒
Tracker telemetry received	Battery (Volts) Report Rate	15.6 4 hours	☒

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	WG Hansen			☒
Glider name	WG Hansen v200		running Sparky's thrudder (spare)	☒
Umbilical Length	4m			☒
G1				☐
G2				☐
G3	APU installed			☒
T1				☐
D1				☐
S1	WetWiFi Payload		OceanComms modem on HV	☒
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
Battery [Wh] > 700 Wh	1200.384		☒
Solar Power Indicators: > 0	18.537 0.0 23.28 27.092		☒

Item/Procedure	Readings				Comments	Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime		
Domain_Name=Host, Node=1, HW_SerNum=0x474850072038384d00390021 On=Y	OK	23.9	120.6	Uptime: 0 days, 22:53:41		☒
Domain_Name=Bat-0x474850072038384d00380042, Node=3, HW_SerNum=0x474850072038384d00380042 On=Y	OK	18.0	111.1	Uptime: 0 days, 23:00:07		☒
Domain_Name=Thruder-2, Node=4, HW_SerNum=0x333451063030373500530054 On=Y	OK	15.4	135.0	Uptime: 0 days, 22:46:14	low pressure, LR says okay for short deployments	☒

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	450.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2022-02-01T22:14:46.6782,desiredHeading=331.2,compass=306.3,rack=11.5,post=16.8rudderSta	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	not behaving well, did a compass cal appears to be better now!	☒
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 (22h49m23.365s), 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 338353207 (AMITY). Pos=36.801302, -121.786407. t=36:0:NOT_DEFINED, 2022-02-01T22:13:50.6502, lengthErrs=0, latLonErrs=0, broadcastCount=9035, lastRx=59.739s, numberObserved=4, averageRxRateMillis=51.450s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=15.2°C, Press=1014.9mb, Wind Speed=10.30kn, Wind Dir=21.7°. Heading=61.0°		☒
UBLOX GPS	2022-02-01T22:14:51Z@36.8023875,-121.7871512,lastRx=0.179s, quality=100, timeout=1m, nmeaValid=true, clockDt=0.595s, lastValidFix=2022-02-01T22:14:51Z@36.8023875,-121.7871512, gpsWatchdogFailureCounter=0, ggaQCount=2=300,numSat:sma=10.99,std=0.10,min=10.00,max=11.00,n=300,hdop:sma=0.93,std=0.03,min=0.91,max=1.16,n=300,altitude:sma=3.85,std=1.81,min=0.70,max=6.70,		☒
Airmar GPS	2022-02-01T22:14:50.300Z@36.8024317,-121.78715,lastRx=0.446s, quality=80, timeout=5m, nmeaValid=true, clockDt=0.144s, lastValidFix=2022-02-01T22:14:50.300Z@36.8024317,-121.78715, gpsWatchdogFailureCounter=0, ggaQCount=2=300,numSat:sma=10.00,std=0.00,min=10.00,max=10.00,n=300,hdop:sma=1.00,std=0.00,min=1.00,max=1.00,n=300,altitude:sma=-0.58,std=2.87,min=-7.30,max=5.9		☒
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

WetWiFi at sea test!

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