

SV3-121: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2022-10-19T21:49:00.658Z	Glider Name	SV3-1531399927(SV3-121)
Tech(s)	Jordan, Chris	Organization	MBARI
Project	Bioacoustics	Ship/Op Area	Paragon/Monterey Bay

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 (17m1.728s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false (no internet connectivity)		☐
WGMS Iridium	IMEI:300434060771430, starts=1, r=1, w=33, sessionAttempts=39, sessionErrs=5, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.5 (i=5), 0 queued msgs state=TALKING, sent=33, lastTx=9.104s, avgTxSize=114.2B, totalTx=3.680kB, received=1, lastRx=9.160s, totalRx=0.038kB, powerState=ON (16m31.514s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]16 blocked messages, averageMessageQueueRate=17.103s, sent=33, totalBytesSent=3.680kB, received=1, totalBytesReceived=0.038kB, lastRx=9.252s, 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=1, #handled=1, lastRx=rx=2022-10-19T21:34:33.010Z, cLockDt=5.083s		☒
Location	Using GPSUBlox, declination=12.740301, failoverCounter=1, timeLastSwitchedGps=2022-10-19T21:34:33.010Z, cLockDt=5.083s		☒
Tracker telemetry received	Battery (Volts)	15.81	☒
	Report Rate	4hrs	

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Hansen Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	Hansen			☒
Float name	Hansen			☒
Glider name	Hansen			☒
Umbilical Length	4m			☒
G1	NA			☐
G2	NA			☐
G3	APU			☒
T1	NA			☐
D1	NA			☐
S1	NA			☐
S2	NA			☐
S3				

	NA			☐
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	786.37		☒
Solar Power Indicators: > 0	5.853 0.0 25.521 28.089		☒

Item/Procedure	Readings					Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x474850072038384d00390021 On=Y	OK	34.4	124.7	Uptime: 0 days, 00:22:00		☒
Domain_Name=Thruder-2, Node=4, HW_SerNum=0x3437470330383638001f0033 On=Y	OK	32.5	311.1	Uptime: 0 days, 00:13:35		☒
Domain_Name=Bat-0x33334707383736340044003b, Node=5, HW_SerNum=0x33334707383736340044003b On=Y	OK	34.7	120.9	Uptime: 0 days, 00:12:12		☒

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	446.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2022-10-19T21:48:58.793Z,desiredHeading=358.6,compass=23.5,rack=-12.9,post=-12.1rudderSt	Right, Left, Center		☒
Thruder Compass Correction	Thruder compass is corrected	recommended NOT corrected	ok	☒
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 (14m6.909s), 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 367766000 (WESTERN FLYER). Pos=36.802398, -121.787048. t=33:0:MOORED, 2022-10-19T21:48:42.975Z, lengthErrs=0, latlonErrs=0, broadcastCount=33, lastRx=27.646s, numberObserved=5, averageRxRateMillis=3.462s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=21.8°C, Press=1058.2mb, Wind Speed=2.83kn, Wind Dir=8.6°. Heading=354.0°		☒
UBLOX GPS	timeout=1m, nmeaValid=true, clockDt=5.323s, lastValidFix=2022-10-19T21:49:16Z@36.8023315,-121.7871533, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=10.02,std=0.77,min=9.00,max=11.00,n=300,hdop:sma=0.90,std=0.02,min=0.84,max=0.91,n=300,altitude:sma=0.70,std=0.88,min=-0.40,max=3.20,n=300		☒
Airmar GPS	timeout=5m, nmeaValid=true, clockDt=4.848s, lastValidFix=2022-10-19T21:49:15.600Z@36.80234,-121.787155, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=9.14,std=0.35,min=9.00,max=10.00,n=300,hdop:sma=0.89,std=0.04,min=0.80,max=1.00,n=300,altitude:sma=6.64,std=3.84,min=-0.80,max=14.20,n=300		☒
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

Technician Signature:

Jordan Caress

- 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