

Readme

SV3 Pre-Launch Checklist

Date	2021-04-08T22:37:36.681Z	Glider Name	SV3-1531399927(SV3-121)
Tech(s)	cwahl	Organization	MBARI
Project	CANON/ECOHAB	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 (2h14m7.260s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false (no internet connectivity)		☒
WGMS Iridium	IMEI:300434060771430, starts=1, r=25, w=160, sessionAttempts=208, sessionErrs=41, wErrs=0, rErrs=0, cErrs=8, 10m ss avg=2.1 (i=1), 0 queued msgs state=WAITING, sent=160, lastTx=5m39.505s, avgTxSize=85.2B, totalTx=16.449kB, received=25, lastRx=51m49.177s, avgRxSize=25.0B, totalRx=0.638kB, powerState=ON (2h13m40.250s),		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]280 blocked messages, averageMessageQueueRate=32.971s, sent=160, totalBytesSent=16.449kB, received=25, totalBytesReceived=0.638kB, lastRx=51m49.187s, 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=25, #handled=25, lastRx=rx=2021-04-08T21:45:47.562Z,		☒
Location	Using GPSUblox, declination=12.885272, failoverCounter=1, timeLastSwitchedGps=2021-04-08T20:25:51Z, clockDt=5.207s		☒
Tracker telemetry received	Battery (Volts)15.8 volts Report Rate4 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	Hansen			☒
Glider name	Hansen			☒
Umbilical Length	4m			☒
G1				☐
G2				☐
G3	APU			☒
T1				☐
D1				☐
S1				☐
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	1709.452		☒
Solar Power Indicators: > 0	3.494		☒
	0.0		
	0.851		
	7.238		

Item/Procedure	Readings				Comments	Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime		
Domain_Name=Host, Node=1, HW_SerNum=0x333451153936383700260039 On=Y	OK	24.7	120.5	Uptime: 0 days, 02:18:00		☒
Domain_Name=Bat-0x474850072038384d00380042, Node=3, HW_SerNum=0x474850072038384d00380042 On=Y	OK	23.4	114.0	Uptime: 0 days, 02:16:54		☒
Domain_Name=Thruder-2, Node=4, HW_SerNum=0x3437470330383638001f0033 On=Y	OK	18.5	181.7	Uptime: 0 days, 02:10:12		☒

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	445.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2021-04-08T22:37:36.54Z,desiredHeading=292.3,compass=4.4,rack=-12.9,post=-14.7rudde	Right, Left, Center		☒
Thruder Compass Correction	Thruder compass is corrected	recommended NOT corrected		☒
Fixed heading test (spin)	180	Avoidance Off, Note Heading Used		☒
Waypoint course test (spin)	90	Avoidance Off, Note Waypoint Course Used		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m30s, powerState=OFF (2h11m37.765s), 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 367793990 (RENEGADE). Pos=36.803160, -121.785560. t=36:0:NOT_DEFINED, 2021-04-08T22:36:56.840Z, lengthErrs=0, latlonErrs=0, broadcastCount=1329, lastRx=46.083s, numberObserved=9,	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=14.4°C, Press=1035.4mb, Wind Speed=9.99kn, Wind Dir=209.2°. Heading=345.6°		☒
UBLOX GPS	2021-04-08T22:37:48Z@36.8024475,-121.78713,lastRx=0.370s, quality=100, timeout=1m, nmeaValid=true, clockDt=5.055s, lastValidFix=2021-04-08T22:37:48Z@36.8024475,-121.78713, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=8.96,std=0.19,min=8.00,max=9.00,n=300,hdop:sma=1.05,std=0.06,min=1.02,max=1.35,n=300,altitude:sma=-0.17,std=2.66,min=-6.90,ma		☒
Airmar GPS	2021-04-08T22:37:47.700Z@36.8024483,-121.7871167,lastRx=0.651s, quality=80, timeout=5m, nmeaValid=true, clockDt=4.742s, lastValidFix=2021-04-08T22:37:47.700Z@36.8024483,-121.7871167, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=7.00,std=0.00,min=7.00,max=7.00,n=300,hdop:sma=1.50,std=0.04,min=1.40,max=1.70,n=300,altitude:sma=4.49,std=5.65,min=-8.80,max		☒
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

EK80 installed, passive radar reflector on light mast.

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