

Readme

SV3 Pre-Launch Checklist

Date	2020-07-17T20:14:09.773Z	Glider Name	SV3-1531399927(SV3-121)
Tech(s)	cwahl	Organization	MBARI
Project	CANON/Station M	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=TALKING, sent=2630, lastTx=37.033s, avgTxSize=213.5B, totalTx=681.762kB, received=9, lastRx=37.005s, avgRxSize=5.0B, totalRx=13.380kB, powerState=ON (1d20h23m59.011s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false, (71/71 success rate), sleepTime=120000, packetSize=8192,		☒
WGMS Iridium	IMEI:300434060771430, starts=1, r=21, w=124, sessionAttempts=693, sessionErrs=5, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.5 (i=4), 0 queued msgs state=TALKING, sent=124, lastTx=9h30m3.966s, totalTx=11.110kB, received=21, lastRx=59m44.937s, avgRxSize=41.0B, totalRx=0.822kB, powerState=ON (1d20h23m31.134s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]0 blocked messages, averageMessageQueueRate=52.187s, sent=2754, totalBytesSent=692.872kB, received=30, totalBytesReceived=14.202kB, lastRx=59m44.952s, 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=30, #handled=30, lastRx=rx=2020-07-17T19:14:24.899Z,		☒
Location	Using GPSUblox, declination=12.95414, failoverCounter=1, timeLastSwitchedGps=2020-07-15T23:52:33Z, clockDt=-0.901s		☒
Tracker telemetry received	Battery (Volts)15.8 volts Report Rate4 hrs		☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Tiny Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	MBARI Spare CCU SV3-121			☒
Float name	Tiny			☒
Glider name	Tiny v200			☒
Umbilical Length	4m			☒
G1				☐
G2	Ecopuck plus VR2C			☒

G3				☐
T1				☐
D1				☐
S1	SV3 Hotspot #1 with LF and MF DAT disabled			☒
S2	ctd plus D0			☒
S3	pCO2 plus pH			☒
S4				☐
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	846.229		☒
Solar Power Indicators: > 0	17.441 0.0 16.354 0.142		☒

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	28.9	122.5	Uptime: 1 day, 20:32:37		☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y	OK	21.7	155.9	Uptime: 1 day, 20:18:18		☒
Domain_Name=PydInt-0x3332470932363032002b0025, Node=5, HW_SerNum=0x3332470932363032002b0025 On=Y	OK	25.0	120.5	Uptime: 1 day, 02:51:22		☒

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	448.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder (2020-07-17T20:14:08.786Z, desiredHeading=255.9, compass=37.9, rack=-12.9, post=-7.7rudd	Right, Left, Center		☒
Thruder		recommended		

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Compass Correction	Thrudder compass is corrected	NOT corrected	I thought LR turned this off?	☐
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 (1d20h21m29.711s), ampsPower=false, powerThreadActive=false	Catch release buoy by hand	pulls out of release mech with some force	☒
Octopus Cable 01	OK	Must Pass		☒
Octopus Cable 02	OK	Must Pass		☒
AIS Status	lastSeen=MMSI 367458170 (F/V GREYBEARD). Pos=36.801063, -121.784255. t=30:0:NOT_DEFINED, 2020-07-17T20:14:15.331Z, lengthErrs=0, latlonErrs=0, broadcastCount=18467, lastRx=4.266s, numberObserved=9,	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=16.5°C, Press=1031.0mb, Wind Speed=4.06kn, Wind Dir=295.5°. Heading=25.4°		☒
UBLOX GPS	2020-07-17T20:14:19Z@36.8023362,-121.787161,lastRx=0.343s, quality=100, timeout=1m, nmeaValid=true, clockDt=0.696s, lastValidFix=2020-07-17T20:14:19Z@36.8023362,-121.787161, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=11.08,std=0.64,min=9.00,max=12.00,n=300,hdop:sma=0.91,std=0.11,min=0.82,max=1.21,n=300,altitude:sma=1.39,std=1.34,min=-0.80		☒
Airmar GPS	2020-07-17T20:14:18.900Z@36.8023267,-121.7871533,lastRx=0.449s, quality=80, timeout=5m, nmeaValid=true, clockDt=0.868s, lastValidFix=2020-07-17T20:14:18.900Z@36.8023267,-121.7871533, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=10.53,std=0.50,min=10.00,max=11.00,n=300,hdop:sma=0.80,std=0.00,min=0.80,max=0.80,n=300,altitude:sma=2.53,std=0.10,min=2.30		☒
Torpedo GPS	Not Available!		☒
Water speed readings	Unknown speed; ncc=0, nci=0, tec=0, aip=0.00	off	☒
Obstacle Avoidance Status	Disabled		☒
Check alarms	"Out of bounds" red. All yellow/green		☒

General Comments

Hotspot with MF (DAT diabled) directional and LF directional

Technician Signature: cwahl

- 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