

SV3-121: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2019-10-01T19:22:49.139Z	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 3.1.3, software version of 2018-07-30T22:31:19Z, production build 1, sv3, SOMDM3730-31-1880AKIR-A, (3.1.3)
Plugins	Running: AirmarWeather, LogAlarmReporter, ThrusterAdjuster, UbloxMast, Winch Not running: GPSasRudderCompass

Communication

Item/Procedure	Readings	Comments	Initials
WiFi Connection	WiFi is On		☒
Virtual Relay	0 queued msgs state=TALKING, sent=316, lastTx=32.246s, avgTxSize=204.5B, totalTx=176.876kB, received=40, lastRx=32.237s, avgRxSize=6.9B, totalRx=3.801kB, powerState=ON (3h39m23.471s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false, (77/77 success rate), sleepTime=120000, packetSize=8192,		☒
WGMS Iridium	IMEI:300434060771430, starts=1, r=10, w=9, sessionAttempts=143, sessionErrs=3, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.0 (i=3), 0 queued msgs state=TALKING, sent=9, lastTx=3h34m57.452s, totalTx=1.006kB, received=10, lastRx=14m23.173s, avgRxSize=21.0B, totalRx=0.365kB, powerState=ON (3h39m5.701s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]0 blocked messages, averageMessageQueueRate=50.707s, sent=325, totalBytesSent=177.882kB, received=50, totalBytesReceived=4.166kB, lastRx=14m2.638s, ProtobufMessageHandler[header=BB,header=BC,active=true, #accepted=0, #handled=0],ProtobufMessageHandler[header=BB,header=BC,active=true, #accepted=0, #handled=0],WGMSCommandHandler[header=0A,active=true, #accepted=50, #handled=50, lastRx=rx=2019-10-01T19:08:26.006Z,		☒
Location	Using GPSUblox, declination=13.028454, failoverCounter=1, timeLastSwitchedGps=2019-10-01T15:45:22Z, clockDt=-0.227s		☒
Tracker telemetry received	Battery (Volts) Report Rate	16 volts 4 hours	☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Tiny Tracker		new batts	☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	SV3-121 MBARI Spare CCU			☒
Float name	Tiny			☒
Glider name	Tiny v200			☒
Umbilical Length	4m			☒
G1				☐
G2	EcoPuck plus VR2C			☒
G3				☐
T1				☐
D1				☐
S1	Hotspot 2 with MF dir and LF dir			☒
S2	GPCTD plus D0			☒
S3	PC02 Plus pH			☒
S4				☐
Event definitions		Compare against standard list		☒
Vehicle and tracker op area defined		Note area name(s) and enable alarms		☒

Vehicle Status

Item/Procedure	Readings	Comments	Initials
Battery [Wh] > 700 Wh	736.545		☒
Solar Power Indicators: > 0	1.991 0.0 3.57 4.456		☒

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	24.3	119.8	Uptime: 0 days, 03:41:57		☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x333470738373634002c001c On=Y	OK	20.6	153.2	Uptime: 0 days, 03:35:40		☒
Domain_Name=PydInt-0x3332470932363032002b0025, Node=5, HW_SerNum=0x3332470932363032002b0025 On=Y	OK	21.5	120.1	Uptime: 0 days, 02:54:38		☒

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	442.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder (2019-10-01T19:22:45.521Z,desiredHeading=250,compass=200.1,rack=13,post=18.7rudderSt	Right, Left, Center		☒
Thruder Compass Correction	Thruder compass is NOT corrected	recommended NOT corrected		☒
Fixed heading test (spin)	180	Avoidance Off, Note Heading Used		☒
Waypoint course test (spin)	41	Avoidance Off, Note Waypoint Course Used		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m, powerState=OFF (3h37m29.146s), ampsPower=false, powerThreadActive=false	Catch release buoy by hand	Not working, replace mechanism in tail	☐
Octopus Cable 01	OK	Must Pass		☒
Octopus Cable 02	OK	Must Pass		☒
AIS Status	t=30:0:NOT_DEFINED, 2019-10-01T19:22:51.196Z, lengthErrs=0, latlonErrs=0, broadcastCount=3295, lastRx=0.610s, numberObserved=11, averageRxRateMillis=5.408s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=16.4°C, Press=1015.2mb, Wind Speed=4.95kn, Wind Dir=229.3°		☒
UBLOX GPS	2019-10-01T19:22:51Z@36.8023463,-121.7867997,lastRx=0.674s, quality=100, clockDt=0.852s,gpsWatchdogFailureCounter=0,ggaQCount:2=300,numSat:sma=12.00,std=0.00,min=12.00,max=12.00,hdop:sma=0.75,std=0.03,min=0.72,max=0.85,altitude:sma=1.36,std=0.92,min=-0.20,max=3.30		☒
Airmar GPS	2019-10-01T19:22:51.300Z@36.8023333,-121.7867917,lastRx=0.264s, quality=80, clockDt=0.576s,gpsWatchdogFailureCounter=0,ggaQCount:2=300,numSat:sma=10.00,std=0.06,min=9.00,max=10.00,hdop:sma=0.90,std=0.00,min=0.90,max=0.90,altitude:sma=0.84,std=0.48,min=-0.20,max=1.80		☒
Torpedo GPS	Not Available!		☒
Water speed readings	Out of the water; Unknown speed; ncc=0, nci=0, tec=0, aip=0.00, iwc=0, oowc=0		☒
Obstacle Avoidance Status	Disabled		☒
Check alarms	"Out of bounds" red. All yellow/green		

General Comments

s1 Hotspot 2, s2 GPCTD plus DO, S3 pCO2 plus pH
G2 Ecopuck plus VR2C
LF dir transducer on skeg, MF directional Transducer in Transducer well

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