



SV3-121: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2019-09-09T19:11:35.308Z	Glider Name	SV3-1531399927(SV3-121)
Tech(s)	cwahl	Organization	MBARI
Project	MBARI	Ship/Op Area	MB Paragon

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=6869, lastTx=14.575s, avgTxSize=175.6B, totalTx=1407.496kB, received=12, lastRx=14.574s, avgRxSize=5.0B, totalRx=34.283kB, powerState=ON (4d20h28m1.234s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false, (55/61 success rate), sleepTime=120000,		☒
WGMS Iridium	IMEI:300434060771430, starts=1, r=13, w=56, sessionAttempts=1553, sessionErrs=4, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=5.0 (i=5), 0 queued msgs state=TALKING, sent=56, lastTx=2d9h27m1.534s, totalTx=5.887kB, received=13, lastRx=4d19h52m23.874s, totalRx=0.590kB, powerState=ON (4d20h27m43.813s), virtualDevice=true,		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]0 blocked messages, averageMessageQueueRate=1m15.888s, sent=6925, totalBytesSent=1413.383kB, received=25, totalBytesReceived=34.873kB, lastRx=4d19h52m23.927s, 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=25, #handled=25, lastRx=rx=2019-09-04T23:19:11.531Z,		☒
Location	Using GPSUblox, declination=13.035144, failoverCounter=1, timeLastSwitchedGps=2019-09-04T22:44:57Z, clockDt=-0.511s		☒
Tracker telemetry received	Battery (Volts) 15.9 volt Report Rate 4 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 v 200			☒
Umbilical Length	4m			☒
G1				☐
G2	Ecopuck plus VR2C			☒
G3				

				☐
T1				☐
D1				☐
S1				☐
S2	GPCTD plus D0		just swapped!	☒
S3	PC02 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	888.396		☒
Solar Power Indicators: > 0	18.799 0.0 21.503 28.491		☒

Item/Procedure	Readings					Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	
Domain_Name=Host, Node=1, HW_SerNum=0x333451153936383700260039 On=Y	OK	32.2	123.2	Uptime: 4 days, 21:05:06		☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x333470738373634002c001c On=Y	OK	29.3	172.7	Uptime: 4 days, 20:24:13		☒
Domain_Name=PyldInt- 0x3332470932363032002b0025, Node=5, HW_SerNum=0x3332470932363032002b0025 On=Y	OK	27.1	122.8	Uptime: 4 days, 20:08:08		☒

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	447.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2019-09- 09T19:11:33.899Z,desiredHeading=180,compass=201.6,rack=-12.3,post=-10.7rudd	Right, Left, Center		☒
Thruder Compass	Thruder compass is NOT corrected	recommended NOT corrected		☒

Correction				
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 (4d20h26m8.681s), ampsPower=false, powerThreadActive=false	Catch release buoy by hand	not working... I can hear motor but float does not deploy...	☐
Octopus Cable 01	OK	Must Pass		☒
Octopus Cable 02	OK	Must Pass		☒
AIS Status	lastSeen=MMSI 367375360 (OCEAN ANGEL 3). Pos=36.804365, -121.785158. t=30:0:UNDERWAY_SAILING, 2019-09-06T12:17:21.829Z, lengthErrs=0, latlonErrs=0, broadcastCount=47070, lastRx=3d6h54m18.193s, averageRxRateMillis=0.757s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=18.9°C, Press=1018.7mb, Wind Speed=4.09kn, Wind Dir=216.6°.		☒
UBLOX GPS	2019-09-09T19:11:39Z@36.8025258,-121.7871435,lastRx=0.929s, quality=100, clockDt=1.068s,gpsWatchdogFailureCounter=0,ggaQCount=2=300,numSat:sma=11.81, std=0.44,min=10.00,max=12.00,hdop:sma=0.76,std=0.05,min=0.74,max=0.92,altitude:sma=0.12,std=1.08,min=-2.40,max=2.00		☒
Airmar GPS	2019-09-09T19:11:39.210Z@36.80253,-121.7871483,lastRx=0.485s, quality=80, clockDt=0.891s,gpsWatchdogFailureCounter=0,ggaQCount=2=300,numSat:sma=10.95, std=0.22,min=10.00,max=11.00,hdop:sma=0.80,std=0.02,min=0.80,max=0.90,altitude:sma=4.09,std=1.29,min=1.50,max=6.00		☒
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

g2 - EcoPuck plus VR2C
s2 - gpctd plus D0
s3 - pC02 plus pH

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