

SV3 Pre-Launch Checklist

Date	2019-07-19T18:24:04.384Z	Glider Name	SV3-1531399927(SV3-121)
Tech(s)	cwahl	Organization	MBARI
Project	BOG timeseries/Line 67	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=124, lastTx=17.511s, avgTxSize=591.8B, totalTx=67.187kB, received=14, lastRx=17.508s, avgRxSize=14.7B, totalRx=1.642kB, powerState=ON (1h10m7.766s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false, (112/125 success rate), sleepTime=120000, packetSize=8192,		☒
WGMS Iridium	IMEI:300434060771430, starts=1, r=12, w=12, sessionAttempts=35, sessionErrs=2, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.1 (i=4), 0 queued msgs state=TALKING, sent=12, lastTx=45m20.829s, avgTxSize=46.0B, totalTx=0.953kB, received=12, lastRx=7m25.548s, avgRxSize=39.3B, totalRx=0.460kB, powerState=ON (1h9m50.125s), virtualDevice=true, Requested		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]0 blocked messages, totalMessagesDiscarded=1, averageMessageQueueRate=31.438s, sent=136, totalBytesSent=68.140kB, received=26, totalBytesReceived=2.102kB, lastRx=7m25.550s, 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=26, #handled=26, lastRx=rx=2019-07-19T18:16:38.863Z,		☒
Location	Using GPSUblox, declination=13.047273, failoverCounter=1, timeLastSwitchedGps=2000-01-01T17:15:22Z, cLockDt=-0.465s		☒
Tracker telemetry received	Battery (Volts) 15.9 volts Report Rate 4 hrs		☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Tiny Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	CCU SV3-121 MBARI Spare CCU		issues with CCU SV3-011	☒
Float name	Tiny			☒
Glider name	Tiny v200			☒
Umbilical Length	4m			☒
G1				☐
G2	ecopcuk plus vr2c			☒
G3				☐

T1				☐
D1				☐
S1				☐
S2	ctd plus do			☒
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	704.881		☒
Solar Power Indicators: > 0	19.455 0.0 21.168 20.779		☒

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	21.7	118.8	Uptime: 0 days, 01:13:21		☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x333470738373634002c001c On=Y	OK	18.2	152.8	Uptime: 0 days, 01:07:40		☒
Domain_Name=PydInt- 0x3332470932363032002b0025, Node=5, HW_SerNum=0x3332470932363032002b0025 On=Y	OK	18.1	118.8	Uptime: 0 days, 00:33:59		☒

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	some damage to urethane from messy deployment last time, elec/mech cable look fine	☒
	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	452.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	19T18:23:56.982Z,desiredHeading=79.1,compass=29.3,rack=13,post=17.5rudderStatus=0000000B,)	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 (1h8m12.679s), 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 367375360 (OCEAN ANGEL 3). Pos=36.804342, -121.785193. t=30:0:UNDERWAY_SAILING, 2019-07-19T18:24:06.752Z, lengthErrs=0, latlonErrs=0, broadcastCount=540, lastRx=0.287s, numberObserved=5,	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=16.1°C, Press=1015.4mb, Wind Speed=4.80kn, Wind Dir=257.7°. Heading=36.4°		☒
UBLOX GPS	2019-07-19T18:24:06Z@36.8023013, -121.7868585, lastRx=0.939s, quality=100, clockDt=1.080s, gpsWatchdogFailureCounter=0, ggaQCount=2=300, numSat:sma=9.70, std=0.46, min=9.00, max=10.00, hdop:sma=0.90, std=0.06, min=0.84, max=0.96, altitude:sma=2.09, std=1.03, min=0.50, max=4.50		☒
Airmar GPS	2019-07-19T18:24:06.500Z@36.8022883, -121.7868317, lastRx=0.255s, quality=80, clockDt=0.624s, gpsWatchdogFailureCounter=0, ggaQCount=1=300, numSat:sma=8.00, std=0.06, min=7.00, max=8.00, hdop:sma=0.90, std=0.02, min=0.90, max=1.20, altitude:sma=2.57, std=0.97, min=1.10, max=4.00		☒
Torpedo GPS	Not Available!		☒
Water speed readings	Out of the water (1h10m6.727s); 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

eco swapped due to issues with eco sv3-011 after software upgrade
s2 ctd plus do
s3 pco2 plus ph
g2 ecopuck plus vr2c

Technician Signature: cwah1

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