

SV3-110: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2024-11-08T00:08:23.890Z	Glider Name	SV3-466563798(SV3-110)
Tech(s)	cwahl	Organization	MBARI
Project	MBTS	Ship/Op Area	Paragon MB

Software Information

Regulus Version	SV3-110, sn=466563798, Running Regulus 3.2.2, software version of 2019-12-03T23:58:34Z, production build 35, sv3, SOMDM3730-30-1880AKIR-A, (1.2.3) secure
Plugins	Running: AirmarWeather, GPSasRudderCompass, LogAlarmReporter, RudderParametersManager, ThrusterAdjuster Not running: PortForwarder, ThrudderDiagnosticsFixer

Communication

Item/Procedure	Readings	Comments	Initials
WiFi Connection	WiFi is On		☒
Virtual Relay	0 queued msgs state=WAITING, sent=0, received=0, powerState=OFF (7h1m10.393s), virtualDevice=true, powerThreadActive=false (no internet connectivity)	Still not working...	☐
WGMS Iridium	IMEI:300434060354880, starts=1, r=6, w=367, sessionAttempts=399, sessionErrs=27, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.5 (i=5), 1 queued msgs state=TALKING, sent=367, lastTx=4.878s, avgTxSize=133.2B, totalTx=48.006kB, received=6, lastRx=4h47m33.298s, totalRx=0.242kB, powerState=ON (7h42.386s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]5 blocked messages, totalMessagesDiscarded=427, averageMessageQueueRate=1m10.728s, sent=367, totalBytesSent=48.006kB, received=6, totalBytesReceived=0.242kB, lastRx=4h47m33.310s, 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=6, #handled=6, lastRx=rx=2024-11-		☒
Location	Using GPSUblox, declination=12.544555, failoverCounter=1, timelastSwitchedGps=2024-11-07T17:09:33Z, clockDt=2.059s		☒
Tracker telemetry received	Battery (Volts) Report Rate	15.8 volts 4 hours	☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Tiny Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	CCU SV3-110 Tiny			☒
Float name	Tiny copper version			☒
Glider name	New 2024 v200 glider			☒
Umbilical Length	4m			☒
G1	Ecopuck			☒
G2				☐
G3				☐
T1				☐
D1				☐
S1	Hotspot with MF DAT			☒
S2	GPCTD plus DO			☒
S3	pCO2 plus pH			☒
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	944.696	//		☒
Solar Power Indicators: > 0	2.538	//		☒
	0.0	//		
	3.252	//		
	4.803	//		

Item/Procedure	Readings					Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x32385119353634330055004a On=Y	OK //	26.7 //	116.2 //	Uptime: 0 days, 07:06:16 //		☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x474850052038384d0057002b On=Y	OK //	24.1 //	264.4 //	Uptime: 0 days, 06:58:21 //		☒
Domain_Name=PydInt-0x33335114373330300043001a, Node=5, HW_SerNum=0x33335114373330300043001a On=Y	OK //	20.7 //	111.6 //	Uptime: 0 days, 00:01:33 //		☒

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(2024-11-08T00:08:20.820Z,desiredHeading=44.4,compass=19.5,rack=11.5,post=10rudderStatus=	Right, Left, Center		☒
Thruder Compass Correction	Thruder compass is corrected //	recommended NOT corrected	LR says that this is okay	☒
Fixed heading test (spin)	180	Avoidance Off, Note Heading Used		☒
Waypoint course test (spin)	36.797, -121.847	Avoidance Off, Note Waypoint Course Used		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m30s, powerState=OFF (6h58m42.393s), 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=36.803153, -121.785560. t=36:0:NOT_DEFINED, 2024-11-08T00:08:23.363Z, lengthErrs=0, latLonErrs=0, broadcastCount=3103, lastRx=4.147s, numberObserved=17, averageRxRateMillis=23.517s//	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=16.6°C, Press=1019.8mb, Wind Speed=1.38kn, Wind Dir=316.4°. Heading=30.0° //		☒

UBLOX GPS	2024-11-08T00:08:30Z@36.802349, -121.787156, lastRx=0.125s, quality=100, timeout=1m, nmeaValid=true, clockDt=2.467s, lastValidFix=2024-11-08T00:08:30Z@36.802349, -121.787156, gpsWatchdogFailureCounter=0, ggaQCount:2=300, numSat:sma=12.00, std=0.00, min=12.00, max=12.00, n=300, hdop: sma=0.73, std=0.01, min=0.73, max=0.78, n=300, altitude: sma=1.44, std=0.79, min=-0.60, max=3.20			
Airmar GPS	2024-11-08T00:08:29.300Z@36.8023417, -121.7871483, lastRx=0.759s, quality=80, timeout=5m, nmeaValid=true, clockDt=1.749s, lastValidFix=2024-11-08T00:08:29.300Z@36.8023417, -121.7871483, gpsWatchdogFailureCounter=0, ggaQCount:2=300, numSat:sma=11.00, std=0.00, min=11.00, max=11.00, n=300, hdop: sma=0.90, std=0.00, min=0.90, max=0.90, n=300, altitude: sma=-0.36, std=0.25, min=-0.80, max=0.2			
Torpedo GPS	Not Available!	//		
Water speed readings	Unknown speed; ncc=0, nci=0, tec=0, aip=0.00	//		
Obstacle Avoidance Status	Disabled	//		
Check alarms	"Out of bounds" red. All yellow/green			

General Comments

Second sea trial of new glider, so far so good! Hotspot Iridium test also hopefully?

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