

Tiny: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2021-11-29T17:30:45.317Z	Glider Name	SV3-794595959(Tiny)
Tech(s)	cwahl	Organization	MBARI
Project	MBTS	Ship/Op Area	Paragon MB

Software Information

Regulus Version	Tiny, sn=794595959, 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, 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=12352, lastTx=35.727s, avgTxSize=1407.6B, totalTx=3071.970kB, received=8, lastRx=35.690s, avgRxSize=7.2B, totalRx=60.770kB, powerState=ON (5d21h16m44.915s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false, (83/89 success rate), sleepTime=120000, packetSize=8192, numberOfDoTransactionFailures=76,		☒
WGMS Iridium	IMEI:300434060708190, starts=1, r=19, w=16, sessionAttempts=2088, sessionErrors=6, wErrors=0, rErrors=0, cErrors=0, 10m ss avg=4.0 (i=3), 0 queued msgs state=TALKING, sent=16, lastTx=54m54.389s, avgTxSize=112.6B, totalTx=1.915kB, received=19, lastRx=35m23.623s, avgRxSize=31.3B, totalRx=0.713kB, powerState=ON (5d21h16m18.536s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]0 blocked messages, averageMessageQueueRate=51.215s, sent=12368, totalBytesSent=3073.885kB, received=27, totalBytesReceived=61.482kB, lastRx=14m32.085s, 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=27, #handled=27, lastRx=rx=2021-11-29T17:16:13.280Z, receiver=virtualRelay,		☒
Location	Using GPSUblox, declination=12.826079, failoverCounter=2, timeLastSwitchedGps=2021-11-23T20:17:58Z, cLockDt=2.591s		☒
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	Tiny			☒
Float name	Tiny			☒
Glider name	Tiny v200			☒
Umbilical Length	4m			☒
G1				☐
G2	Ecopuck plus VR2C			☒
G3	JRF APU			☒
T1				☐
D1				☐
S1	Hotspot 3?			☒
S2	GPCTD 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	1311.596		✓
Solar Power Indicators: > 0	10.915 0.0 9.156 18.258		✓

Item/Procedure	Readings					Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x3132471639323739002d0037 On=Y	OK	20.0	117.3	Uptime: 5 days, 21:22:24		✓
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y	OK	23.0	153.0	Uptime: 5 days, 21:10:44		✓
Domain_Name=Bat-0x33345106303037350027002c, Node=4, HW_SerNum=0x33345106303037350027002c On=Y	OK	13.4	112.3	Uptime: 5 days, 20:53:36		✓
Domain_Name=PyldInt-0x3332470932363032002b0025, Node=6, HW_SerNum=0x3332470932363032002b0025 On=Y	OK	14.8	111.8	Uptime: 0 days, 01:05:06		✓

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	0.0	Spins freely, slow and fast speeds		✓
Rudder Range of Motion		Rudder moves freely and smoothly		✓
Rudder right, left, center	Rudder(2021-11-29T17:30:42.827Z,desiredHeading=285.1,compass=357.6,rack=-19.9,post=-17.1rudderS	Right, Left, Center		✓
Thruder Compass Correction	Thruder compass is corrected	recommended NOT corrected	LR says this is okay	✓
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=1m30s, powerState=OFF (5d21h14m18.678s), 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 367742810 (JOHN H MARTIN). Pos=36.804023, -121.786133. t=37:0:NOT_DEFINED, 2021-11-29T17:30:29.496Z, lengthErrs=22, latlonErrs=0, broadcastCount=32814, lastRx=29.934s, numberObserved=7,	If in harbor, must see MMSI		✓
Photo Document				✓

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=16.9°C, Press=1023.1mb, Wind Speed=2.66kn, Wind Dir=137.9°. Heading=2.7°		✓
UBLOX GPS	2021-11-29T17:31:02Z@36.8023822,-121.787137,lastRx=0.699s, quality=100, timeout=1m, nmeaValid=true, clockDt=2.525s, lastValidFix=2021-11-29T17:31:02Z@36.8023822,-121.787137, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=9.69,std=0.77,min=8.00,max=11.00,n=300,hdop:sma=1.04,std=0.13,min=0.90,max=1.30,n=300,altitude:sma=3.17,std=2.02,min=-0.60,max=6.70,n=300		✓
Airmar GPS	2021-11-29T17:31:02.600Z@36.8023883,-121.7871567,lastRx=0.220s, quality=80, timeout=5m, nmeaValid=true, clockDt=3.027s, lastValidFix=2021-11-29T17:31:02.600Z@36.8023883,-121.7871567, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=8.92,std=0.33,min=8.00,max=10.00,n=300,hdop:sma=1.04,std=0.08,min=1.00,max=1.30,n=300,altitude:sma=8.73,std=5.24,min=-1.50,max=19.00,		✓
Torpedo GPS	Not Available!		✓
Water speed readings	Unknown speed; ncc=0, nci=0, tec=0, aip=0.00		✓
Obstacle Avoidance Status	Enabled		✓
Check alarms	*Out of bounds* red. All yellow/green		✓

Shark bite fiberglass repairs and paint still looks good!

Technician Signature:

- 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