

Tiny: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2022-10-26T23:24:28.809Z	Glider Name	SV3-794595959(Tiny)
Tech(s)	cwahl	Organization	MBARI
Project	PIE/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=WAITING, sent=0, received=0, powerState=ON (2h12m28.281s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false (no internet connectivity)	Still not working...	☒
WGMS Iridium	IMEI:300434060708190, starts=1, r=12, w=149, sessionAttempts=184, sessionErrs=25, wErrs=0, rErrs=0, cErrs=1, 10m ss avg=3.4 (i=2), 1 queued msgs state=ATTEMPTING, sent=149, lastTx=3m54.068s, avgTxSize=96.1B, totalTx=14.434kB, received=12, lastRx=35m12.850s, avgRxSize=25.0B, totalRx=0.401kB, powerState=ON (2h12m0.397s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]771 blocked messages, averageMessageQueueRate=53.110s, sent=149, totalBytesSent=14.434kB, received=12, totalBytesReceived=0.401kB, lastRx=35m12.879s, 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=12, #handled=12, lastRx=rx=2022-10-26T22:49:16.085Z, receiver=iridiumModem,		☒
Location	Using GPSublox, declination=12.738516, failoverCounter=1, timeLastSwitchedGps=2022-10-26T21:14:03Z, clockDt=4.016s		☒
Tracker telemetry received	Battery (Volts) Report Rate	15.54 volts 4 hours	☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Tiny Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	SV3-011 Tiny			☒
Float name	Tiny 2			☒
Glider name	Tiny v150			☒
Umbilical Length	4m			☒
G1	GPCTD plus D0			☒
G2				☐
G3				☐
T1				☐
D1				☐
S1	Hotspot 2 with MF DAT			☒
S2	GPCTD plus D0			☒
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			☒

	890.122	//		
Solar Power Indicators: > 0	1.974 0.0 1.15 1.389	// // // //		☒

Item/Procedure	Readings					
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x3132471639323739002d0037 On=Y	OK //	39.4 //	121.7 //	Uptime: 0 days, 02:17:47 //		☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y	OK //	17.7 //	138.6 //	Uptime: 0 days, 02:10:10 //		☒
Domain_Name=PyldInt-0x33335114373330300043001a, Node=5, HW_SerNum=0x33335114373330300043001a On=Y	OK //	28.0 //	117.7 //	Uptime: 0 days, 01:26:06 //		☒

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	449.0 //	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2022-10-26T23:24:28.046Z,desiredHeading=184.1,compass=191.8,rack=-4.3,post=-5.3rudderSta	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)	41 //	Avoidance Off, Note Waypoint Course Used		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m30s, powerState=OFF (2h10m2.235s), 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 368174080 (F/V JACQUELINE L.). Pos=36.805600, -121.785673. t=30:0:NOT_DEFINED, 2022-10-26T23:24:33.303Z, lengthErrs=0, latlonErrs=0, broadcastCount=467, lastRx=4.932s, numberObserved=8, averageRxRateMillis=15.794s //	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=18.4°C, Press=1015.6mb, Wind Speed=4.42kn, Wind Dir=22.3°. Heading=206.7° //		☒
UBLOX GPS	2022-10-26T23:24:42Z@36.8024145,-121.787131,lastRx=0.423s, quality=100, timeout=1m, nmeaValid=true, clockDt=3.723s, lastValidFix=2022-10-26T23:24:42Z@36.8024145,-121.787131, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=11.07,std=0.92,min=8.00,max=12.00,n=300,hdop:sma=0.91,std=0.09,min=0.83,max=1.21,n=300,altitude:sma=3.36,std=2.29,min=-0.90,max=9.10, //		☒
Airmar GPS	2022-10-26T23:24:41.500Z@36.802415,-121.7871283,lastRx=0.930s, quality=80, timeout=5m, nmeaValid=true, clockDt=3.167s, lastValidFix=2022-10-26T23:24:41.500Z@36.802415,-121.7871283, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=9.73,std=0.53,min=8.00,max=10.00,n=300,hdop:sma=1.01,std=0.03,min=1.00,max=1.20,n=300,altitude:sma=7.00,std=0.66,min=5.80,max=7.90,n=300 //		☒
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

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