

Tiny: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2022-09-19T16:09:37.913Z	Glider Name	SV3-794595959(Tiny)
Tech(s)	cwahl	Organization	MBARI
Project	Station M	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 (2d20h33m57.753s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false (no internet connectivity)		☒
WGMS Iridium	IMEI:300434060708190, starts=1, r=15, w=3128, sessionAttempts=3863, sessionErrs=719, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.6 (i=5), 1 queued msgs state=TALKING, sent=3128, lastTx=14.422s, avgTxSize=101.8B, totalTx=291.434kB, received=15, lastRx=3m25.946s, avgRxSize=40.9B, totalRx=0.559kB, powerState=ON (2d20h33m31.038s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]468 blocked messages, totalMessagesDiscarded=460, averageMessageQueueRate=1.764s, sent=3128, totalBytesSent=291.434kB, received=15, totalBytesReceived=0.559kB, lastRx=3m26.001s, 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=15, #handled=15, lastRx=rx=2022-09-	cell still not working	☐
Location	Using GPSublox, declination=12.748909, failoverCounter=1, timeLastSwitchedGps=2022-09-16T19:37:57Z, clockDt=0.845s		☒
Tracker telemetry received	Battery (Volts) Report Rate	15.9 volts 4 hours batteries replaced for Station M trip	☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Tiny Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	Tiny			☒
Float name	Tiny		The return of Tiny	☒
Glider name	Tiny v150			☒
Umbilical Length	4m		umbilical is twisted, UNTWIST!!!	☒
G1	Ecopuck			☒
G2				☐
G3				☐
T1				☐
D1				☐
S1	Hotspot two with new LF directional xducer			☒
S2	GPCTD plus D0			☒
S3	pCO2 plus pH			☒
S4	Airmar replaced with light mast			☒
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
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Battery [Wh] > 700 Wh	771.394	//		☒
Solar Power Indicators: > 0	5.906 0.0 4.291 6.505	// // // //		☒

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	22.9	116.9	Uptime: 2 days, 20:38:27		☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y	OK	18.1	139.5	Uptime: 2 days, 20:30:28		☒
Domain_Name=PyldInt-0x33335114373330300043001a, Node=5, HW_SerNum=0x33335114373330300043001a On=Y	OK	17.9	114.4	Uptime: 0 days, 00:15:41		☒

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	front wing feels a little sloppy	☒
	Thruder	Hardware secure		☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	Comments	Initials
Thruster Spin	443.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2022-09-19T16:09:34.193Z,desiredHeading=248.8,compass=196.7,rack=13,post=19.1rudderStatus=0)	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 (2d20h31m30.738s), 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 367766000 (WESTERN FLYER). Pos=36.802402, -121.787057. t=33:0:UNDERWAY_ENGINE, 2022-09-19T16:09:48.165Z, lengthErrs=13, latlonErrs=0, broadcastCount=34751, lastRx=6.199s, numberObserved=7, averageRxRateMillis=2.525s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=16.5°C, Press=1009.7mb, Wind Speed=2.73kn, Wind Dir=17.6°. Heading=206.4°		☒
UBLOX GPS	2022-09-19T16:09:55Z@36.8023988,-121.7871372,lastRx=0.510s, quality=100, timeout=1m, nmeaValid=true, clockDt=0.566s, lastValidFix=2022-09-19T16:09:55Z@36.8023988,-121.7871372, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=11.16,std=0.49,min=10.00,max=12.00,n=300,hdop:sma=1.00,std=0.02,min=0.95,max=1.14,n=300,altitude:sma=2.38,std=0.95,min=0.50,max=4.70,		☒
Airmar GPS	2022-09-19T16:09:55.400Z@36.80243,-121.7871567,lastRx=0.138s, quality=80, timeout=5m, nmeaValid=true, clockDt=0.843s, lastValidFix=2022-09-19T16:09:55.400Z@36.80243,-121.7871567, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=10.69,std=0.47,min=9.00,max=11.00,n=300,hdop:sma=1.03,std=0.05,min=1.00,max=1.30,n=300,altitude:sma=6.11,std=0.68,min=5.10,max=7.60,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