

Tiny: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2021-05-26T23:18:02.628Z	Glider Name	SV3-794595959 (Tiny)
Tech(s)	cwahl	Organization	MBARI
Project	MBTS/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	lastTx=1m0.487s, avgTxSize=255.6B, totalTx=6.489kB, received=0, powerState=ON (9m41.425s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false, (26/26 success rate), sleepTime=120000, packetSize=8192, numberOfDoTransactionFailures=0,		☒
WGMS Iridium	IMEI:300434060708190, starts=1, r=0, w=13, sessionAttempts=14, sessionErrs=0, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.7 (i=4), 0 queued msgs state=TALKING, sent=13, lastTx=5m33.791s, avgTxSize=107.6B, totalTx=1.366kB, received=0, powerState=ON (9m16.432s), virtualDevice=true, Requested by:		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]0 blocked messages, averageMessageQueueRate=11.804s, sent=39, totalBytesSent=7.855kB, received=0, 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		☒
Location	Using GPSUblox, declination=12.872831, failoverCounter=1, timeLastSwitchedGps=2021-05-26T23:10:33Z, clockDt=8.152s		☒
Tracker telemetry received	Battery (Volts) Report Rate	15.9 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			☒
Glider name	Tiny v150			☒
Umbilical Length	4m			☒
G1				☐
G2	Ecopuck Plus VR2C			☒
G3				☐
T1				☐
D1				☐
S1	Hotspot 2 with MF(DATA unplugged) and LF			☒
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	871.933 //		✓
Solar Power Indicators: > 0	20.83 // 0.0 // 21.21 // 25.644 //		✓

Item/Procedure	Readings					Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	
Domain_Name=Host, Node=1, HW_SerNum=0x3132471639323739002d0037 On=Y	OK //	29.7 //	121.0 //	Uptime: 0 days, 00:13:34 //		✓
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y	OK //	23.5 //	160.1 //	Uptime: 0 days, 00:06:07 //		✓
Domain_Name=PyIdInt-0x3332470932363032002b0025, Node=5, HW_SerNum=0x3332470932363032002b0025 On=Y	OK //	24.1 //	116.5 //	Uptime: 0 days, 00:00:-1 //		✓

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	461.0 //	Spins freely, slow and fast speeds		✓
Rudder Range of Motion		Rudder moves freely and smoothly		✓
Rudder right, left, center	Rudder(2021-05-26T23:18:02.368Z,desiredHeading=180,compass=27,rack=13,post=19.2rudderStatus	Right, Left, Center		✓
Thruder Compass Correction	Thruder compass is corrected	recommended NOT corrected	LR says 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 (7m11.528s), ampsPower=false, powerThreadActive=false	Catch release buoy by hand		✓
Octopus Cable 01	OK	Must Pass	Failed on first try, regreased	✓
Octopus Cable 02	OK	Must Pass	and reseated octopus connections	✓
AIS Status	lastSeen=MMSI 367375360 (OCEAN ANGEL 3). Pos=36.804093, -121.785155. t=30:0:UNDERWAY_SAILING, 2021-05-26T23:18:08.264Z, lengthErrs=0, latlonErrs=0, broadcastCount=150, lastRx=2.665s, numberObserved=14,	If in harbor, must see MMSI		✓
Photo Document				✓

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=14.5°C, Press=1020.8mb, Wind Speed=6.09kn, Wind Dir=203.6°. Heading=35.2° //		✓
UBLOX GPS	2021-05-26T23:18:20Z@36.80244,-121.7871452,lastRx=0.031s, quality=100, timeout=1m, nmeaValid=true, clockDt=8.938s, lastValidFix=2021-05-26T23:18:20Z@36.80244,-121.7871452, gpsWatchdogFailureCounter=0, ggaQCount:1=6,2=294, numSat:sma=11.36,std=0.91,min=9.00,max=12.00,n=300,hdop:sma=0.95,std=0.09,min=0.81,max=1.36,n=300,altitude:sma=5.08,std=1.83,min=-1.		✓
Airmar GPS	2021-05-26T23:18:16.800Z@36.8024467,-121.7871533,lastRx=0.392s, quality=80, timeout=5m, nmeaValid=true, clockDt=5.494s, lastValidFix=2021-05-26T23:18:16.800Z@36.8024467,-121.7871533, gpsWatchdogFailureCounter=0, ggaQCount:2=300, numSat:sma=10.52,std=0.50,min=10.00,max=11.00,n=300,hdop:sma=0.85,std=0.09,min=0.80,max=1.10,n=300,altitude:sma=8.89,std=1.75,min=5.10,m		✓
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		✓

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