

Tiny: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2021-08-03T21:35:18.876Z	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=WAITING, sent=0, received=0, powerState=ON (1d4h12m40.796s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false (no internet connectivity)		☒
WGMS Iridium	IMEI:300434060708190, starts=1, r=27, w=1746, sessionAttempts=2015, sessionErrs=253, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=3.4 (i=5), 0 queued msgs state=TALKING, sent=1746, lastTx=8.556s, avgTxSize=85.48, totalTx=148.201kB, received=27, lastRx=2h48m0.560s, totalRx=1.082kB, powerState=ON (1d4h12m16.188s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]0 blocked messages, totalMessagesDiscarded=1216, averageMessageQueueRate=45.194s, sent=1746, totalBytesSent=148.201kB, received=27, totalBytesReceived=1.082kB, lastRx=2h48m0.644s, 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,		☒
Location	Using GPSUblox, declination=12.855221, failoverCounter=1, timeLastSwitchedGps=2021-08-02T17:24:51Z, clockDt=3.831s		☒
Tracker telemetry received	Battery (Volts) Report Rate	15.9 4 hrs	☒

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 v200			☒
Umbilical Length	4m			☒
G1				☐
G2	Ecopuck plus VR2C			☒
G3				☐
T1				☐
D1				☐
S1	Hotspot 2 with MF 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				☒

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Vehicle Status

Item/Procedure	Readings	Comments	Initials
Battery [Wh] > 700 Wh	910.744		☒
Solar Power Indicators: > 0	0.911 0.0 12.767 0.61		☒

Item/Procedure	Readings				Comments	Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime		
Domain_Name=Host, Node=1, HW_SerNum=0x3132471639323739002d0037 On=Y	OK	29.8	121.4	Uptime: 1 day, 04:18:01		☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y	OK	22.0	149.5	Uptime: 1 day, 04:10:18		☒
Domain_Name=PydInt-0x3332470932363032002b0025, Node=5, HW_SerNum=0x3332470932363032002b0025 On=Y	OK	28.4	118.5	Uptime: 0 days, 21:43:11		☒

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	444.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2021-08-03T21:35:17.827Z,desiredHeading=282.6,compass=26.8,rack=-12.9,post=-16.1rudd	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 (1d4h10m17.967s), 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 366966550 (OCEAN ANGEL 2). Pos=36.804875, -121.785020. t=30:0:NOT_DEFINED, 2021-08-03T21:35:22.638Z, lengthErrs=1, latlonErrs=0, broadcastCount=13628, lastRx=4.722s, numberObserved=6,	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=18.9°C, Press=1019.5mb, Wind Speed=3.52kn, Wind Dir=191.0°. Heading=32.6°		☒
UBLOX GPS	2021-08-03T21:35:31Z@36.8025095,-121.78712,lastRx=0.140s, quality=100, timeout=1m, nmeaValid=true, clockDt=3.047s, lastValidFix=2021-08-03T21:35:31Z@36.8025095,-121.78712, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=11.79,std=0.46,min=10.00,max=12.00,n=300,hdop:sma=0.87,std=0.09,min=0.70,max=1.08,n=300,altitude:sma=2.76,std=1.43,min=-0.40,		☒
Airmar GPS	2021-08-03T21:35:30.500Z@36.8025333,-121.787085,lastRx=0.738s, quality=80, timeout=5m, nmeaValid=true, clockDt=3.047s, lastValidFix=2021-08-03T21:35:30.500Z@36.8025333,-121.787085, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=10.77,std=0.42,min=10.00,max=11.00,n=300,hdop:sma=0.88,std=0.10,min=0.80,max=1.20,n=300,altitude:sma=10.85,std=6.87,min=-0.40		☒
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		☒

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