

SV3 Pre-Launch Checklist

Date	2020-10-05T21:55:29.034Z	Glider Name	SV3-794595959(Tiny)
Tech(s)	cwahl	Organization	MBARI
Project	CANON/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=32, lastTx=8h33m43.608s, totalTx=11.912kB, received=2, lastRx=8h33m43.600s, totalRx=0.291kB, powerState=ON (3d2h8m2.235s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false, (0/25 success rate), sleepTime=120000, packetSize=8192, numberOfDoTransactionFailures=1709,	LR is having issues with their VR	☐
WGMS Iridium	IMEI:300434060708190, starts=1, r=37, w=5899, sessionAttempts=7154, sessionErrs=1212, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=3.4 (i=3), 1 queued msgs state=TALKING, sent=5899, lastTx=2m45.117s, avgTxSize=105.6B, totalTx=627.725kB, received=37, lastRx=47m6.761s, avgRxSize=25.0B, totalRx=1.045kB, powerState=ON (3d2h7m36.447s),		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]1 blocked messages, totalMessagesDiscarded=753, averageMessageQueueRate=9.451s, sent=5931, totalBytesSent=639.637kB, received=39, totalBytesReceived=1.336kB, lastRx=47m6.779s, 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=39, #handled=39,		☒
Location	Using GPSUblox, declination=12.933748, failoverCounter=1, timeLastSwitchedGps=2020-10-02T19:49:33Z, clockDt=-1.128s		☒
Tracker telemetry received	Battery (Volts)	15.8 Volts	☒
	Report Rate	4 hours	

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Tiny Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	Tiny SV3-011			☒
Float name	Tiny			☒
Glider name	Tiny v200		Forward wing repairs inspected, looks pretty good, modified slightly	☒
Umbilical Length	4m			☒
G1	Ecopuck plus VR2C			☒
G2				

				☐
G3				☐
T1				☐
D1				☐
S1	Hotspot 2		With MF dir and LF dir	☒
S2	GPCTD plus D0			☒
S3	pCO2 plus pH		recently serviced	☒
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	904.998		☒
Solar Power Indicators: > 0	13.958 0.0 4.805 18.478		☒

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	31.2	122.3	Uptime: 3 days, 02:09:38		☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y	OK	23.0	158.3	Uptime: 3 days, 02:02:21		☒
Domain_Name=PydInt- 0x33335114373330300043001a, Node=5, HW_SerNum=0x33335114373330300043001a On=Y	OK	26.6	115.2	Uptime: 3 days, 01:07:02		☒

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	446.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder (2020-10- 05T21:55:25.407Z, desiredHeading=323.3, compass=358.6, rack=-12.9, post=-14.9ru	Right, Left, Center		☒

Thruder Compass Correction	Thruder compass is corrected	recommended NOT corrected	LR says to disregard	☐
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 (3d2h5m38.465s), 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=36.804027, -121.786118. t=37:0:NOT_DEFINED, 2020-10-05T21:54:59.777Z, lengthErrs=10, latlonErrs=2, broadcastCount=15492, lastRx=32.252s, numberObserved=7,	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=17.2°C, Press=1015.6mb, Wind Speed=3.73kn, Wind Dir=201.1°.		☒
UBLOX GPS	2020-10-05T21:55:31Z@36.8025395,-121.7870615,lastRx=0.787s, quality=100, timeout=1m, nmeaValid=true, clockDt=1.093s, lastValidFix=2020-10-05T21:55:31Z@36.8025395,-121.7870615, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=11.25,std=0.86,min=10.00,max=12.00,n=300,hdp:sma=0.93,std=0.03,min=0.86,max=1.03,n=300,altitude:sma=3.91,std=1.58,min=0.00		☒
Airmar GPS	2020-10-05T21:55:31.710Z@36.8025367,-121.7870717,lastRx=0.155s, quality=80, timeout=5m, nmeaValid=true, clockDt=0.427s, lastValidFix=2020-10-05T21:55:31.710Z@36.8025367,-121.7870717, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=9.65,std=0.48,min=9.00,max=10.00,n=300,hdp:sma=1.03,std=0.05,min=1.00,max=1.10,n=300,altitude:sma=0.39,std=1.24,min=-1.30,		☒
Torpedo GPS	Not Available!	not used	☐
Water speed readings	Unknown speed; ncc=0, nci=0, tec=0, aip=0.00	not used	☐
Obstacle Avoidance Status	Enabled		☒
Check alarms	"Out of bounds" red. All yellow/green		☒

General Comments

YAY CANON!!!

Technician Signature: cwahl

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