

SV3-272: SV3 Pre-Launch Checklist

Readme

SV3 Pre-Launch Checklist

|         |                          |              |                         |
|---------|--------------------------|--------------|-------------------------|
| Date    | 2020-01-02T20:51:13.366Z | Glider Name  | SV3-1553177065(SV3-272) |
| Tech(s) | cwahl                    | Organization | MBARI                   |
| Project | MBTS cruise              | Ship/Op Area | Paragon MB              |

Software Information

|                 |                                                                                                              |
|-----------------|--------------------------------------------------------------------------------------------------------------|
| Regulus Version | SV3-272, sn=1553177065, Running Regulus 1.1.3, software version of 2017-09-28T01:02:25Z, production build 32 |
| Plugins         | Running: AirmarWeather, LogAlarmReporter, ThrusterAdjuster Not running: GPSasRudderCompass                   |

Communication

| Item/Procedure             | Readings                                                                                                                                                       | Comments      | Initials                            |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------|
| WiFi Connection            | WiFi is On                                                                                                                                                     |               | <input checked="" type="checkbox"/> |
| Virtual Relay              | ON. 0 queued msgs (Max=2500). Channel is TALKING. (107/107 success rate) sleepTime=60000 packetSize=8192                                                       |               | <input checked="" type="checkbox"/> |
| WGMS Iridium               | ON. 0 queued msgs (Max=1). Channel is TALKING. IMEI:300434063245550, consecutiveErrors=0, sessionErrors=18, writeErrors=0, readErrors=1, 10min ss avg=4.327452 |               | <input checked="" type="checkbox"/> |
| Vehicle telemetry received | [virtualRelay, iridiumModem], Last Command: Write Console Script (Dest=0x0, code=0): %wap.turnOn(). Have 0 blocked messages., averageMessageQueueRate=14.920s  |               | <input checked="" type="checkbox"/> |
| Location                   | Using GPSublox declination=12.96093, failoverCounter=1, timeLastSwitchedGps=2020-01-02T19:23:36Z, clockDt=0.406s                                               |               | <input checked="" type="checkbox"/> |
| Tracker telemetry received | Battery (bars)<br>Report Rate                                                                                                                                  | 15.7<br>4 hrs | <input checked="" type="checkbox"/> |

Configuration

| Item/Procedure                      | Readings          | Specifications                      | Comments | Initials                            |
|-------------------------------------|-------------------|-------------------------------------|----------|-------------------------------------|
| Tracker WGMS name                   | Tiny Tracker      |                                     |          | <input checked="" type="checkbox"/> |
| (Optional) Second Tracker Name      |                   |                                     |          | <input type="checkbox"/>            |
| Drybox WGMS name                    | CCU-272 Hansen    |                                     |          | <input checked="" type="checkbox"/> |
| Float name                          | WG Tiny           |                                     |          | <input checked="" type="checkbox"/> |
| Glider name                         | WG Tiny v150      |                                     |          | <input checked="" type="checkbox"/> |
| Umbilical Length                    | 4m                |                                     |          | <input checked="" type="checkbox"/> |
| G1                                  |                   |                                     |          | <input type="checkbox"/>            |
| G2                                  | Ecopuck plus VR2C |                                     |          | <input checked="" type="checkbox"/> |
| G3                                  |                   |                                     |          | <input type="checkbox"/>            |
| T1                                  |                   |                                     |          | <input type="checkbox"/>            |
| D1                                  |                   |                                     |          | <input type="checkbox"/>            |
| S1                                  |                   |                                     |          | <input type="checkbox"/>            |
| S2                                  | GPCTD plus D0     |                                     |          | <input checked="" type="checkbox"/> |
| S3                                  | pCO2 plus pH      |                                     |          | <input checked="" type="checkbox"/> |
| S4                                  |                   |                                     |          | <input type="checkbox"/>            |
| Event definitions                   |                   | Compare against standard list       |          | <input checked="" type="checkbox"/> |
| Vehicle and tracker op area defined |                   | Note area name(s) and enable alarms |          | <input checked="" type="checkbox"/> |
| Escalation list created/populated   |                   |                                     |          | <input checked="" type="checkbox"/> |

Vehicle Status

| Item/Procedure              | Readings                       | Comments                 | Initials                            |
|-----------------------------|--------------------------------|--------------------------|-------------------------------------|
| Battery [Wh] > 700 Wh       | 412.589                        | will charge over weekend | <input checked="" type="checkbox"/> |
| Solar Power Indicators: > 0 | 12.94<br>0.0<br>6.46<br>19.272 |                          | <input checked="" type="checkbox"/> |

| Item/Procedure | Readings             |                  |                |                 |          | Initials |
|----------------|----------------------|------------------|----------------|-----------------|----------|----------|
| Domain Info    | AMPS Hardware Status | Temperature (°C) | Pressure (kPa) | Hardware Uptime | Comments |          |

|                                                                                                        |       |         |          |                                |                      |                                     |
|--------------------------------------------------------------------------------------------------------|-------|---------|----------|--------------------------------|----------------------|-------------------------------------|
| Domain_Name=Host, Node=1,<br>HW_SerNum=0x343747033038363800180028 On=Y                                 | OK // | 18.7 // | 111.2 // | Uptime: 0 days,<br>01:31:19 // | <input type="text"/> | <input checked="" type="checkbox"/> |
| Domain_Name=Thruder-2, Node=3,<br>HW_SerNum=0x3333470738373634002c001c On=Y                            | OK // | 22.3 // | 169.8 // | Uptime: 0 days,<br>01:27:04 // | <input type="text"/> | <input checked="" type="checkbox"/> |
| Domain_Name=PydInt-0x3332470932363032002b0025,<br>Node=5, HW_SerNum=0x3332470932363032002b0025<br>On=Y | OK // | 17.5 // | 117.8 // | Uptime: 0 days,<br>00:57:47 // | <input type="text"/> | <input checked="" type="checkbox"/> |

## Mechanical Checks

|       | Item/Procedure                    | Specifications                                       | Comments             | Initials                            |
|-------|-----------------------------------|------------------------------------------------------|----------------------|-------------------------------------|
| Float | Wet-mates connected/lubed         | 3M Silicone Lubricant Spray 3M ID No. 62-4678-4930-3 | <input type="text"/> | <input checked="" type="checkbox"/> |
|       | Connector covers secure           |                                                      | <input type="text"/> | <input checked="" type="checkbox"/> |
|       | Drybox secure                     | Wiggle test                                          | <input type="text"/> | <input checked="" type="checkbox"/> |
|       | Contact info secure               |                                                      | <input type="text"/> | <input checked="" type="checkbox"/> |
|       | Hull                              | Free of cracks and dings                             | <input type="text"/> | <input checked="" type="checkbox"/> |
|       | Skeg/Fin                          | Secure                                               | <input type="text"/> | <input checked="" type="checkbox"/> |
| Sub   | Hardware secure                   |                                                      | <input type="text"/> | <input checked="" type="checkbox"/> |
|       | Umbilical visual inspection       | Free of voids/defects                                | <input type="text"/> | <input checked="" type="checkbox"/> |
|       | Umbilical ribbon cable inspection |                                                      | <input type="text"/> | <input checked="" type="checkbox"/> |
|       | Roll pins inserted                | Flush with surface                                   | <input type="text"/> | <input checked="" type="checkbox"/> |
|       | Wings                             | Hardware secure with Loctite and Lock Nuts           | <input type="text"/> | <input checked="" type="checkbox"/> |
|       | Thruder                           | Hardware secure                                      | <input type="text"/> | <input checked="" type="checkbox"/> |

## Vehicle Functionality

| Item/Procedure              | Readings                                                                                                    | Specifications                              | Comments                                        | Initials                            |
|-----------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------|-------------------------------------------------|-------------------------------------|
| Thruster Spin               | 460.0                                                                                                       | Spins freely, slow and fast speeds //       | <input type="text"/>                            | <input checked="" type="checkbox"/> |
| Rudder Range of Motion      |                                                                                                             | Rudder moves freely and smoothly //         | <input type="text"/>                            | <input checked="" type="checkbox"/> |
| Rudder right, left, center  | Rudder(2020-01-02T20:51:09.943Z,desiredHeading=325.9,compass=15.9,rack=-12.9,post=-14rudde                  | Right, Left, Center //                      | <input type="text"/>                            | <input checked="" type="checkbox"/> |
| Thruder Compass Correction  | Thruder compass is NOT corrected //                                                                         | recommended NOT corrected //                | <input type="text"/>                            | <input checked="" type="checkbox"/> |
| Fixed heading test (spin)   | 180 <input type="text"/>                                                                                    | Avoidance Off, Note Heading Used //         | <input type="text"/>                            | <input checked="" type="checkbox"/> |
| Waypoint course test (spin) | 41 <input type="text"/>                                                                                     | Avoidance Off, Note Waypoint Course Used // | <input type="text"/>                            | <input checked="" type="checkbox"/> |
| Buoy Release Mechanism      | device is disarmed, deviceState=OFF, deployCounter=0, waitTime=30s //                                       | Catch release buoy by hand //               | Broke, ordered replacement <input type="text"/> | <input checked="" type="checkbox"/> |
| Octopus Cable 01            | OK //                                                                                                       | Must Pass //                                | <input type="text"/>                            | <input checked="" type="checkbox"/> |
| Octopus Cable 02            | OK //                                                                                                       | Must Pass //                                | <input type="text"/>                            | <input checked="" type="checkbox"/> |
| AIS Status                  | MMSI 366966550 (OCEAN ANGEL 2). Pos=36.804632, -121.785108. t=30:0:NOT_DEFINED, 2020-01-02T20:51:06.976Z // | If in harbor, must see MMSI //              | <input type="text"/>                            | <input checked="" type="checkbox"/> |
| Photo Document              |                                                                                                             |                                             | <input type="text"/>                            | <input checked="" type="checkbox"/> |

## Vehicle Communication and Telemetry

| Item/Procedure            | Readings / Specifications                                                                                                                                                                                                                                   | Comments             | Initials                            |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------|
| WX reporting              | Temp=NaN°C, Press=NaNmb, Wind Speed=NaNkn, Wind Dir=NaN°. Heading=NaN° //                                                                                                                                                                                   | <input type="text"/> | <input checked="" type="checkbox"/> |
| UBLOX GPS                 | 2020-01-02T20:51:14Z@36.8025535,-121.7870943,lastRx=0.407s,quality=100,clockDt=0.559s,failCount=0,ggaQCount:1=67,2=233,numSat:sma=9.59,std=0.77,min=7.00,max=10.00,hdop:sma=1.01,std=0.07,min=0.95,max=1.21,altitude:sma=1.37,std=0.90,min=0.30,max=3.30 // | <input type="text"/> | <input checked="" type="checkbox"/> |
| Airmar GPS                | Not Available! //                                                                                                                                                                                                                                           | <input type="text"/> | <input checked="" type="checkbox"/> |
| Torpedo GPS               | Not Available! //                                                                                                                                                                                                                                           | <input type="text"/> | <input checked="" type="checkbox"/> |
| Water speed readings      | Out of the water; Unknown speed; Not yet running, powerState=OFF, ampsPower=false, powerThreadActive=false //                                                                                                                                               | <input type="text"/> | <input checked="" type="checkbox"/> |
| Obstacle Avoidance Status | Enabled //                                                                                                                                                                                                                                                  | <input type="text"/> | <input checked="" type="checkbox"/> |
| Check alarms              | "Out of bounds" red. All yellow/green //                                                                                                                                                                                                                    | <input type="text"/> | <input checked="" type="checkbox"/> |

## General Comments

First deployment of 2020. WG Tiny running WG Hansens CCU

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