



## Tiny: SV3 Pre-Launch Checklist

## SV3 Pre-Launch Checklist

|              |                          |              |                                             |
|--------------|--------------------------|--------------|---------------------------------------------|
| Date         | 2018-08-29T18:47:04.744Z | Glider Name  | SV3-794595959(Tiny)                         |
| Tech(s)      | cwahl                    | Organization | MBARI                                       |
| Payload(s)   | s,1, s2, s3 and g2       | Project      | CANON                                       |
| Ship/Op Area | Paragon MB               | Location     | Using GPSUblox declination=13.102707, faild |

## Software Information

|    |                                                                                                 |
|----|-------------------------------------------------------------------------------------------------|
| Id | Tiny, sn=794595959, Running Regulus 1.1.1, software version of 2016-08-24T17:05:27Z, production |
|----|-------------------------------------------------------------------------------------------------|

## Communication

| Item/Procedure             | Readings                                                                                   | Initials                            |
|----------------------------|--------------------------------------------------------------------------------------------|-------------------------------------|
| WiFi Connection            | WiFi is On                                                                                 | <input checked="" type="checkbox"/> |
| Virtual Relay              | ON. 0 queued msgs (Max=2500). Channel is TALKING.(92/92 success rate) sleepTime=60000 pack | <input checked="" type="checkbox"/> |
| WGMS Iridium               | ON. 0 queued msgs (Max=1). Channel is TALKING. IMEI:300434060708190, consecutiveErrors=0,  | <input checked="" type="checkbox"/> |
| Vehicle telemetry received |                                                                                            | <input checked="" type="checkbox"/> |
| Tracker telemetry received | Battery (bars) 15.99 volts<br>Report Rate 4 hours                                          | <input checked="" type="checkbox"/> |

## Configuration

| Item/Procedure                      | Readings     | Specifications                                  | Initials                            |
|-------------------------------------|--------------|-------------------------------------------------|-------------------------------------|
| Topside RDF Frequency               | n/a          |                                                 | <input type="checkbox"/>            |
| Hull RDF Frequency                  | n/a          |                                                 | <input type="checkbox"/>            |
| Tracker WGMS name                   | Tiny Tracker |                                                 | <input checked="" type="checkbox"/> |
| Drybox WGMS name                    | SV3-011 Tiny |                                                 | <input checked="" type="checkbox"/> |
| Float name                          | Tiny         |                                                 | <input checked="" type="checkbox"/> |
| Glider name                         | Tiny v200    |                                                 | <input checked="" type="checkbox"/> |
| Thruder Serial Number               | 530054       | Last 6 digits of Hardware ID found on AMPS page | <input checked="" 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                         | Initials                            |
|-----------------------------|----------------------------------|-------------------------------------|
| Battery [Wh] > 700 Wh       | 810.548                          | <input checked="" type="checkbox"/> |
| Solar Power Indicators: > 0 | 26.631<br>0.0<br>24.174<br>2.183 | <input checked="" type="checkbox"/> |

| Item/Procedure                                                                                    | Readings             |                  |                |                          |                                     | Initials |
|---------------------------------------------------------------------------------------------------|----------------------|------------------|----------------|--------------------------|-------------------------------------|----------|
| Domain Info                                                                                       | AMPS Hardware Status | Temperature (°C) | Pressure (kPa) | Hardware Uptime          |                                     |          |
| Domain_Name=Host, Node=1, HW_SerNum=0x3132471639323739002d0037 On=Y                               | OK                   | 36.3             | 121.5          | Uptime: 0 days, 18:15:03 | <input checked="" type="checkbox"/> |          |
| Domain_Name=Thruder-2, Node=3, HW_SerNum=0x333451063030373500530054 On=Y                          | OK                   | 35.3             | 201.2          | Uptime: 0 days, 18:10:37 | <input checked="" type="checkbox"/> |          |
| Domain_Name=PyldInt-0x3332470932363032002b0025, Node=5, HW_SerNum=0x3332470932363032002b0025 On=Y | OK                   | 29.6             | 119.7          | Uptime: 0 days, 17:53:16 | <input checked="" type="checkbox"/> |          |

## Mechanical Checks

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

## Vehicle Functionality

| Item/Procedure              | Readings                                                                                  | Specifications                           | Initials                            |
|-----------------------------|-------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------|
| Thruster Spin               | 456.0                                                                                     | Spins freely, slow and fast speeds       | <input checked="" type="checkbox"/> |
| Rudder Range of Motion      |                                                                                           | Rudder moves freely and smoothly         | <input checked="" type="checkbox"/> |
| Rudder right, left, center  | Rudder(2018-08-29T18:47:03.307Z,desiredHeading=61.1,compass=11.2,rack=16,post=21.3rudderS | Right, Left, Center                      | <input checked="" type="checkbox"/> |
| Thruder Compass Correction  | Thruder compass is NOT corrected                                                          |                                          | <input checked="" type="checkbox"/> |
| Fixed heading test (spin)   | 180                                                                                       | Avoidance Off, Note Heading Used         | <input checked="" type="checkbox"/> |
| Waypoint course test (spin) | 41                                                                                        | Avoidance Off, Note Waypoint Course Used | <input checked="" type="checkbox"/> |
| Buoy Release Mechanism      | device is disarmed, deviceState=OFF, deployCounter=0                                      | Catch release buoy by hand               | <input checked="" type="checkbox"/> |
| Octopus Cable 01            | OK                                                                                        | Must Pass                                | <input checked="" type="checkbox"/> |
| Octopus Cable 02            | OK                                                                                        | Must Pass                                | <input checked="" type="checkbox"/> |
| AIS Status                  | MMSI 367766000 (R/V WESTERN FLYER). Pos=36.802410, -121.787040. t=33:0:UNDERWAY_EN        | If in harbor, must see MMSI              | <input checked="" type="checkbox"/> |
| Photo Document              |                                                                                           |                                          | <input checked="" type="checkbox"/> |

## Vehicle Communication and Telemetry

| Item/Procedure               | Readings / Specifications                                                                   | Init                                |
|------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------|
| WX reporting                 | Temp=22.3°C, Press=1036.1mb, Wind Speed=1.47kn, Wind Dir=246.1°. Heading=20.1°              | <input checked="" type="checkbox"/> |
| UBLOX GPS                    | 2018-08-29T18:47:06Z@36.8022695,-121.7868287, lastRx=0.190s, quality=100, clockDt=0.250s    | <input checked="" type="checkbox"/> |
| Airmar GPS                   | 2018-08-29T18:47:05.100Z@36.8022683,-121.7868117, lastRx=0.930s, quality=80, clockDt=1.150s | <input checked="" type="checkbox"/> |
| Torpedo GPS                  | 2018-08-29T18:47:05Z@36.8022864,-121.7868364, lastRx=1.160s, quality=65, clockDt=1.250s     | <input checked="" type="checkbox"/> |
| Water speed readings         | Out of the water; Unknown speed; Not yet running, powerState=OFF, ampsPower=false           | <input checked="" type="checkbox"/> |
| Obstacle Avoidance Status    | Enabled                                                                                     | <input checked="" type="checkbox"/> |
| RDF beacon tested w/receiver |                                                                                             | <input type="checkbox"/>            |
| Check alarms                 | "Out of bounds" red. All yellow/green                                                       | <input checked="" type="checkbox"/> |

## Comments

s1 Hotspot with MF DAT and Wifi  
s2 GPCTD plus DO  
s2 MBARI pCO2 plus pH, standard refilled  
G2 Ecopuck plus VR2C

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*

Save & Submit

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