

**Seaglider pre-deployment checklist**

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| **Seaglider** |  |
| **Date** |  | **Deployment #** |  |
| **Glider code version** |  | **Deployment name** |  |

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| **Delivery** | ***Date*** |  |
| ***Operator*** |  |
| Visual inspection / comments (box contents, external fairing, connectors secure, bladder, anode, screws, etc)  |  |

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| **Basestation Setup** | ***Date*** |  |
| ***Operator*** |  |
| **Trim sheet check** |  |
| Motor limits  | □ | Sensors calibration coefficients | □ | sg\_calib\_constants updated? | □ |  |  |
| **Home folder** |
| Cleaned up?  | □ | .pagers file updated | □ | sg\_calib\_constants copied | □ |  |  |
| **Processing folder** |  |
| Directories created  | □ | Matlab scriptsupdated | □ | sg\_calib\_constants copied | □ | altimeter depth file updated | □ |
| **Website** |
| Mission created? | □ |  |  |

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| **Compass Check**(rotate glider in 30° increments, using a hand-held compass as reference) | ***Date*** |  |
| ***Operator*** |  |
| Location:  |
| **Results** |  |
|  |  | Raw | Calib level | Calib port | Calib stbd |
| Max error |  |  |  |  |
| Heading(s) at max error |  |  |  |  |
| Comments: |
| **Bench tests** | ***Date*** |  |
| ***Operator*** |  |
| **Interactive self-test** |
| Time: |  | Location: | Self-test #: |
| Mission #: | Phone # | primary |  |  | Iridium signal strength: Registered?  | □ |
| GPS acquired ok? | □ | secondary |  |  |
| Compass calibration date: |  | *Sensors configuration* |
| slot 1 |  | slot 3 |  | slot 5 |  |
| slot 2 |  | slot 4 |  | slot 6 |  |
| Motor limits checked? | □ | *Test results* | Position move | Vmin | Avg mA | AD rate\* | Duration |
| Pitch |  |  |  |  |  |
| Roll |  |  |  |  |  |
| VBD - boost |  |  |  |  |  |
| VBD - std |  |  |  |  |  |
| VBD - bleed |  |  |  |  |  |
|  | *Nominal bench AD rates: VBD >8, roll >350, pitch >170* |
| Data collected ok? | □ | Internal press: |  | Humidity: |  | Altimeter ok? | □ |
| 1ary pack V: |  | 1ary pack AH: |  | 2ary pack V: |  | 2ary pack AH: |  |
| *Comms* |
| Signal strength: | Number of calls: | Successful? |  |  |
| Overall results |
| Warnings:  | Failures: |
| Comments: |
| **Sensors calibration coefficients check (onboard glider)** |
| CT | □ | Other (specify):  | □ | Other (specify):  | □ | Other (specify):  | □ |
| **Altimeter test in air** |
| Interrogate frequency:……………….…. KHz | Reply frequency:……………….…. KHz | 3 pings in a row? □ Sensitivity: …………………. |
| **SIM Dives** | ***Date*** |  |
| ***Operator*** |  |
| **Files setup on basestation?** |
| cmdfile | □ | targets | □ | science | □ | .pagers | □ |
| **SIM dives** |
| Glider position:   |  | Start time: |  | End time: |  | Number of dives: |  |
| **Results** |
| Avg roll AD rate: |  | Avg pitch AD rate: |  | Avg pump AD rate: |  | Avg bleed AD rate: |  |
| Comments: |

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| **Ballasting Check** | ***Date*** |  |
| ***Operator*** |  |
| Position | C\_VBD | C\_PITCH | Pitch deg | C\_ROLL | Obs. roll - port | Obs. roll - stbd |
| Level |  |  |  |  |  |  |
| Pitched down |  |  |  |  |  |  |
| Nose up |  |  |  |  |  |  |
| Comments: |