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**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 scripts  updated | □ | 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: | | | | | | | | |