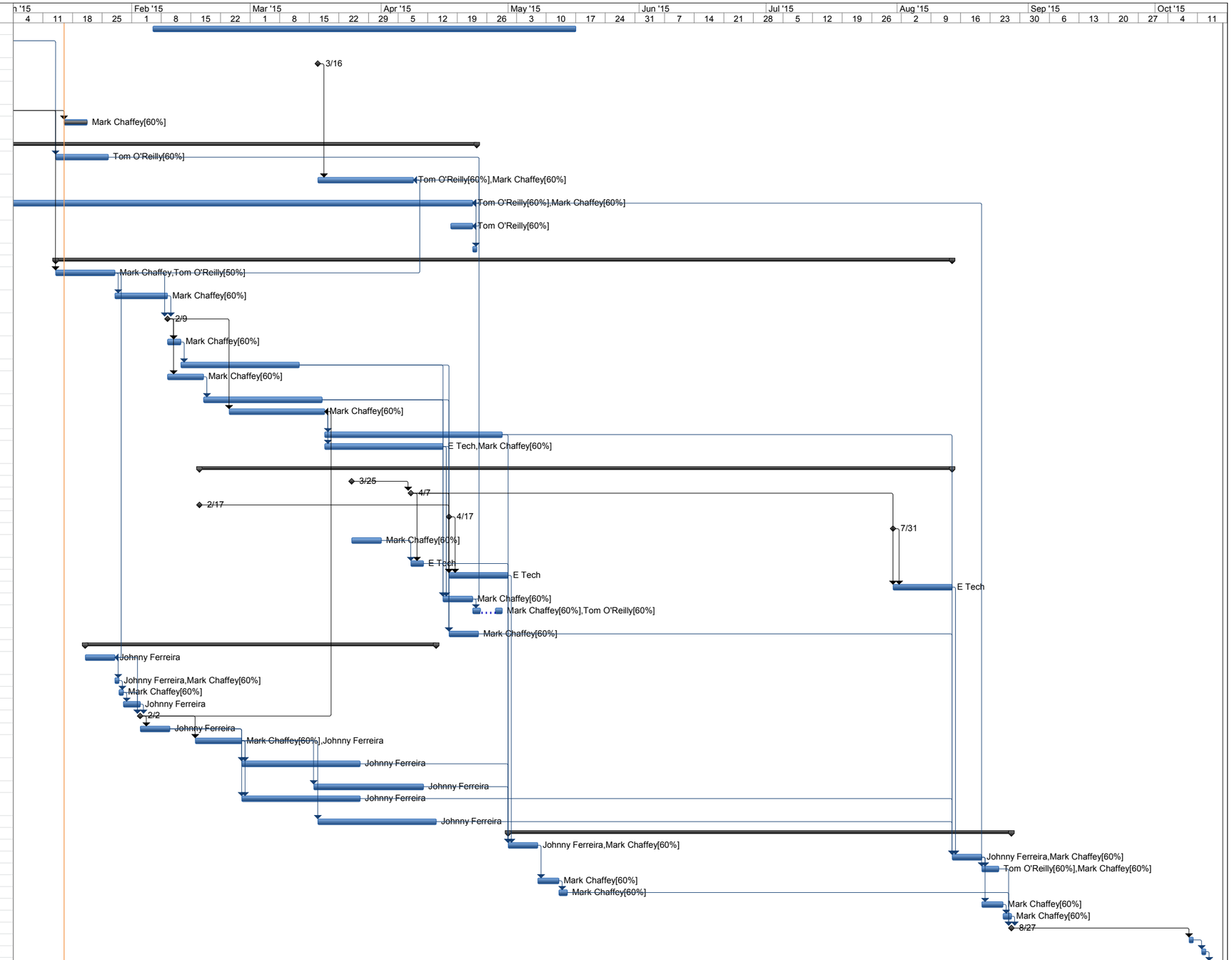
| ID | Task Name | Duration | Start | Finish |
|---|---|---|---|---|
| 1 | Western Flyer on GOC Expedition | 71 days? | Fri 2/6/15 | Sat 5/16/15 |
| 2 | Installation of BINs and instruments in building G | 8.33 days? | Fri 5/2/14 | Wed 5/14/14 |
| 3 | Receipt of ADCP's from NERC | 0 days | Mon 3/16/15 | Mon 3/16/15 |
| 4 | Preliminary power budget testing | 1.67 days? | Thu 5/15/14 | Fri 5/16/14 |
| 5 | Preliminary system design | 8.33 days? | Mon 5/19/14 | Thu 5/29/14 |
| 6 | Functional Requirements Review | 0 days | Mon 6/2/14 | Mon 6/2/14 |
| 7 | Purchase of acoustic modem | 3.33 days | Fri 1/16/15 | Wed 1/21/15 |
| 8 | BIN Software Development and Testing | 138 days? | Mon 10/13/14 | Thu 4/23/15 |
| 9 | Software integration of Acoustic Modem | 8.33 days? | Wed 1/14/15 | Mon 1/26/15 |
| 10 | Software integration of 600 and 1200kHz ADCP's | 16.67 days | Tue 3/17/15 | Wed 4/8/15 |
| 11 | Software integration and testing of instrument interfaces | 137 days | Mon 10/13/14 | Wed 4/22/15 |
| 12 | Software verification of data format and load path to SSDS | 3.33 days? | Fri 4/17/15 | Wed 4/22/15 |
| 13 | Preliminary instrument readiness review | 1 day | Wed 4/22/15 | Thu 4/23/15 |
| 14 | BIN Electrical Design | 152 days | Wed 1/14/15 | Thu 8/13/15 |
| 15 | Overall system design including instrument interfaces, batteries, cabling, and fault protection | 10 days | Wed 1/14/15 | Tue 1/27/15 |
| 16 | Integration and testing of improved RTC | 8.33 days | Wed 1/28/15 | Mon 2/9/15 |
| 17 | Preliminary electrical design review | 0 days | Mon 2/9/15 | Mon 2/9/15 |
| 18 | Detailed electrical design of instrument interface for Acoustic Modem including cables | 3.33 days | Mon 2/9/15 | Thu 2/12/15 |
| 19 | Fabrication of cables for Acoustic Modem | 20 days | Thu 2/12/15 | Thu 3/12/15 |
| 20 | Detailed design of instrument interfaces for 600 and 1200kHz ADCP's including cables | 6.67 days | Mon 2/9/15 | Tue 2/17/15 |
| 21 | Fabrication of cables for NERC ADCP's | 20 days | Wed 2/18/15 | Tue 3/17/15 |
| 22 | Detailed electrical design of battery system including cables | 16.67 days | Tue 2/24/15 | Wed 3/18/15 |
| 23 | Fabrication of battery to BIN cables | 30 days | Wed 3/18/15 | Wed 4/29/15 |
| 24 | Layout and fabrication of battery interface board | 20 days | Wed 3/18/15 | Wed 4/15/15 |
| 25 | Battery Spheres | 128 days | Tue 2/17/15 | Thu 8/13/15 |
| 26 | Delivery of battery sphere cables | 0 days | Wed 3/25/15 | Wed 3/25/15 |
| 27 | Delivery of Benthos battery spheres #1 - 16 | 0 days | Tue 4/7/15 | Tue 4/7/15 |
| 28 | Delivery of battery packs for sphere #1-4 | 0 days | Tue 2/17/15 | Tue 2/17/15 |
| 29 | Delivery of battery packs for sphere's #5-#8 | 0 days | Fri 4/17/15 | Fri 4/17/15 |
| 30 | Delivery of battery packs for sphere's #9-#16 | 0 days | Fri 7/31/15 | Fri 7/31/15 |
| 31 | Documentation on battery safety, handling and assembly procedures | 5 days | Wed 3/25/15 | Tue 3/31/15 |
| 32 | Assembly of battery sphere #1 | 3 days | Wed 4/8/15 | Fri 4/10/15 |
| 33 | Assembly of battery spheres #2-#8 | 10 days | Fri 4/17/15 | Thu 4/30/15 |
| 34 | Assembly of battery spheres #9-#16 | 10 days | Fri 7/31/15 | Thu 8/13/15 |
| 35 | Final assembly of BIN #1 and instruments | 5 days | Wed 4/15/15 | Wed 4/22/15 |
| 36 | BIN power energy budget verification testing | 3.33 days | Wed 4/22/15 | Wed 4/29/15 |
| 37 | Final assembly of BIN #2 and instruments | 5 days | Fri 4/17/15 | Thu 4/23/15 |
| 38 | BIN Assembly Mechanical Design | 59 days | Wed 1/21/15 | Mon 4/13/15 |
| 39 | Preliminary design of steel frame modifications and instrument mount | 5 days | Wed 1/21/15 | Tue 1/27/15 |
| 40 | Deployed hardware weight estimate | 1 day | Wed 1/28/15 | Wed 1/28/15 |
| 41 | Verify Western Flyer winch deployment and recovery weight limits | 1 day | Thu 1/29/15 | Thu 1/29/15 |
| 42 | Deployment and recovery lifting sling design | 2 days | Fri 1/30/15 | Mon 2/2/15 |
| 43 | Preliminary Mechanical Design Review | 0 days | Mon 2/2/15 | Mon 2/2/15 |
| 44 | Final Design of steel frame modifications and mount | 5 days | Tue 2/3/15 | Mon 2/9/15 |
| 45 | Detailed mechanical design of battery system frame | 9 days | Mon 2/16/15 | Thu 2/26/15 |
| 46 | Fabrication of modifications to steel frame #1 and instrument mounts | 20 days | Fri 2/27/15 | Thu 3/26/15 |
| 47 | Fabrication of battery system frame components #1 | 20 days | Mon 3/16/15 | Fri 4/10/15 |
| 48 | Fabrication of modifications to steel frame #2 and instrument mounts | 20 days | Fri 2/27/15 | Thu 3/26/15 |
| 49 | Fabrication of battery system frame components #2 | 20 days | Tue 3/17/15 | Mon 4/13/15 |
| 50 | Final System Integration and Test | 85 days | Fri 5/1/15 | Thu 8/27/15 |
| 51 | Final assemby of all deployed hardware for BIN assembly #1 | 5 days | Fri 5/1/15 | Thu 5/7/15 |
| 52 | Final assemby of all deployed hardware for BIN assembly #2 | 5 days | Fri 8/14/15 | Thu 8/20/15 |
| 53 | Final instrument readiness review | 2 days | Fri 8/21/15 | Mon 8/24/15 |
| 54 | Cold soak testing unit 1 | 3 days | Fri 5/8/15 | Tue 5/12/15 |
| 55 | Test tank testing unit 1 | 2 days | Wed 5/13/15 | Thu 5/14/15 |
| 56 | Cold soak testing unit 2 | 3 days | Fri 8/21/15 | Tue 8/25/15 |
| 57 | Test tank testing unit 2 | 2 days | Wed 8/26/15 | Thu 8/27/15 |
| 58 | BINs ready for deployment | 0 days | Thu 8/27/15 | Thu 8/27/15 |
| 59 | Stage for deployment | 1 day | Fri 10/9/15 | Fri 10/9/15 |
| 60 | Load Western Flyer | 1 day | Mon 10/12/15 | Mon 10/12/15 |
| 61 | Deployment cruise | 4 days | Tue 10/13/15 | Fri 10/16/15 |




Project: Margin&CanyonEngineer
Date: Fri 1/16/15

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| Task | | Milestone | | Project Summary | | External Milestone | | Inactive Milestone | | Manual Task | | Manual Summary Rollup | | Start-only | | Deadline | |
| Split | | Summary | | External Tasks | | Inactive Task | | Inactive Summary | | Duration-only | | Manual Summary | | Finish-only | | Progress | |