ATLANTIS 21-02 NSF #OCE-1031050

AT 21-02 (Van Dover, Chief Scientist)

Leg 1: Barbados to Orenoque A, Orenoque B

Leg 2: Barbados to El Pilar, Manon, Atalante

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Site** | **Dominant Bivalve** | **Latitude (N)** | **Longitude (W)** | **Depth (m)** | **Other** |
| El Pilar | *Bathymodiolus* B | 11°14.0 | 59° 20.75 | 1190 | 150 m x 15 m, Dome 2 |
| Orenoque A | *Bathymodiolus* B | 10° 19.67 | 58° 53.325 | 1700 | 280 m x 45 m |
| Orenoque B | *Bathymodiolus* A | 10° 19.8 | 58° 37.4 | 2000 | 50 m patch, Dome 13 |
| Manon | *Calyptogena* | 13° 46.7 | 57° 32.6 | 5000 | 100 m diameter |
| Atalante | *Calyptogena* | 13° 49.7 | 57° 38.8 | 5000 | 600 m x 1000 m |

Preliminary Cruise Plan (Jason daytime scenario)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| JUNE | 0000-0400 | 0400-0800 | 0800-1200 | 1200-1600 | 1600-2000 | 2000-2400 |
| 1 |  |  | **Transit**  **(180 nmi)** | **Transit** | **Transit** | **Transit** |
| 2 | **Transit**  ORQUE A  Multibeam CHIRP | ORQUE A  **Mooring Recovery/CTD** | ORQUE A Jason | ORQUE A Jason | ORQUE A Jason | ORQUE A  MOCNESS |
| 3 | ORQUE A  MOCNESS | ORQUE A  Multibeam  CHIRP | ORQUE A  Jason | ORQUE A  Jason | ORQUE A  Jason | ORQUE A  MOCNESS |
| 4 | ORQUE A  MOCNESS  CTD  **Transit (15 nmi)** | **ORQUE B**  **Mooring Recovery/CTD** | ORQUE B  Multibeam  CHIRP | ORQUE B  Jason | ORQUE B  Jason | ORQUE B  Jason |
| 5 | ORQUE B  MOCNESS | ORQUE B  MOCNESS  CTD | ORQUE B  Jason | ORQUE B  Jason | ORQUE B  Jason | ORQUE B  Jason |
| 6 | ORQUE B  MOCNESS | ORQUE B  MOCNESS  CTD | **[[1]](#footnote-1)Transit**  **(180 nmi)** | **Transit** | **Transit** | **Transit** |
| 7 | **Transit** | **TRANSFER** | **Transit**  **(113 nmi)** | **Transit** | **Transit** | El Pilar  Multibeam CHIRP |
| 8 | El Pilar  Multibeam CHIRP | **El Pilar**  **Mooring Recovery/CTD** | El Pilar  Jason | El Pilar  Jason | El Pilar  Jason | El Pilar  MOCNESS |
| 9 | El Pilar  MOCNESS | El Pilar  Multibeam  CHIRP | El Pilar  Jason | El Pilar  Jason | El Pilar  Jason | El Pilar  Jason |
| 10 | El Pilar  MOCNESS | El Pilar  MOCNESS | El Pilar  Jason | El Pilar  Jason | El Pilar  Jason | **Transit**  **(160 nmi)** |
| 11 | **Transit** | **Transit** | **Transit** | **Transit** | Manon  Multibeam  CHIRP | Manon  MOCNESS |
| 12 | Manon  MOCNESS  CTD | Manon  Multibeam  CHIRP | Manon  Jason | Manon  Jason | Manon  Jason | Manon  MOCNESS |
| 13 | Manon  MOCNESS | Manon  MOCNESS | Manon  Jason | Manon  Jason | Manon  Jason | **Transit**  **(50 nmi)** |
| 12 | Atalante Multibeam CHIRP | Atalante Multibeam CHIRP/CTD | Atalante  Jason | Atalante  Jason | Atalante  Jason | Atalante MOCNESS |
| 14 | Atalante MOCNESS  CTD | Atalante Multibeam CHIRP/CTD | Atalante  Jason | Atalante  Jason | Atalante  Jason | Atalante MOCNESS |
| 15 | Atalante MOCNESS | Atalante Multibeam CHIRP/CTD | Atalante  Jason | Atalante  Jason | Atalante  Jason | CONTINGENCY |
| 16 | CONTINGENCY | CONTINGENCY | CONTINGENCY | CONTINGENCY | CONTINGENCY | ENGINEERING PLACE HOLDER |
| 17 | ENGINEERING PLACE HOLDER | ENGINEERING PLACE HOLDER | ENGINEERING PLACE HOLDER | ENGINEERING PLACE HOLDER | ENGINEERING PLACE HOLDER | **Transit**  **(120 nmi)** |
| 18 | **Transit** | **Transit** |  |  |  |  |

|  |  |  |
| --- | --- | --- |
|  | **BARBADOS SCIENCE PERSONNEL (valid passport required)** | |
| BERTHS | **Leg 1** | **Leg 2** |
| 1 | **Van Dover** | **Van Dover** |
| 2 | **Cunningham** | Ball |
| 3 | **Carlson** | Clarke |
| 4 | **Neigel** | **TBD** |
| 5 | LaBella | LaBella |
| 6 | Plouviez | Plouviez |
| 7 | Jacobsen | Jacobsen |
| 8 | Jollivet | Jollivet |
| 9 | **TBD** | **TBD** |
| 10 | Brothers | Brothers |
| 11 | Coryell-Martin | Coryell-Martin |
|  |  |  |
| 12 | Eggleston | He |
| 13 | Ashlee Lillis | Ashlee Lillis |
| 14 | Jessica Lowder | Puckett |
| 15 | Zambon | Zambon |
|  |  |  |
|  |  |  |
| 16 | **Young** | **Maslakova** |
| 17 | MOCNESS | MOCNESS |
| 18 | TBD | TBD |
| 19 | TBD | TBD |
| 20 | TBD | TBD |
| 21 | TBD | TBD |
| 22 | TBD | TBD |
| 23 | TBD | TBD |
|  |  |  |
|  | **BAJAN** **OBSERVER** | |
| 24 | MOISE | MOISE |

Leg 1 Berthing (NOT FINAL!)



Leg 2 Berthing (NOT FINAL!)

DATA STORAGE (Jason video and images)

CalDigit VR2 (MAC) two drive RAID system with eSATA, FireWire 800, FireWire 400, and USB 3.0 data transfer

2 x 1 TB @ $499 US

2 x 2 TB @ $599 US

2 x 3 TB @ $799 US

**2 x 4 TB @ $999 US**

Spare/replacement drive modules are available for swap-out

1 x 1 TB @ @ $199 US

1 x 2 TB @ @ $269 US

1 x 3 TB @ @ $369 US

1 x 4 TB @ @ $469 US

<http://www.CalDigit.com/Purchase.asp>

Host Interface:

• eSATA x 1

• FireWire 800 x 2

• FireWire 400 x 1

• USB 3.0 x 1

Interface Transfer Rate:

• eSATA: up to 3Gbits/s

• FireWire 800: up to 800Mbits/s

• FireWire 400: up to 400Mbits/s

• USB 3.0: up to 5Gbits/s

RAID Function:

• Supports RAID 0, 1, Spanning, JBOD

• Automatically online fast disk rebuilding

• Automatic disk failure detection

• Hot swappable disks

• USB 3.0 & eSATA do not support JBOD

Power Supply Adapter:

• Full range AC Input: 100 ~ 240V 50~60Hz 1.5A

• DC Output: 5V/4.2A, 12V/3A

• Power plug: 4Pin

System Requirements:

• Windows 2000, XP, Vista, 7 (32 or 64bit)

• Mac OS 10.4 or later

• USB 3.0

Windows XP or later

Mac OS 10.5 or later

1. Does not reflect CTD casts en route (need CTD plan from R He) [↑](#footnote-ref-1)