MBON Deployment Cruise

November 4-5, 2024 *R/V Daiber* Lewes, DE

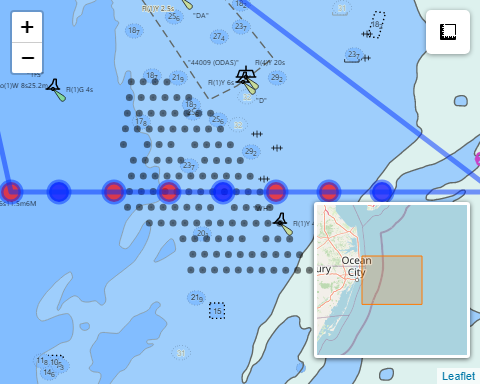
## Schedule, in brief

### 04 November

* Crew arrives. Loads gear on *R/V Daiber*.

### 05 November

* 06:00 Arrive at R/V Daiber
* 06:30 - 17:05 eDNA sampling and mooring deployment



## Cruise plan; calculated at 17 knots

* 06:00 Meet at *R/V Daiber*
* 06:30 Depart Lewes for **T-3C**
* **38 20.16, -74 21**
* 09:20 Arrive **T-3C**. Conduct eDNA sampling.
* 09:35 Finish eDNA sampling and deploy mooring.
* 09:45 Complete operations. Depart for **T-2C**
* **38 20.16, -74 30.3**
* 10:15 Arrive **T-2C**. Conduct eDNA sampling.
* 10:30 Finish eDNA sampling and deploy mooring.
* 10:40 Complete operations. Depart for **MBON5**
* **38 20.1627, -74 34.66**
* 10:55 Arrive **MBON5**. Conduct eDNA sampling.
* 11:10 Finish eDNA sampling and deploy mooring.
* 11:20 Complete operations. Depart for **MBON4**
* **38 20.1627, -74 39.02**
* 11:35 Arrive **MBON4**. Conduct eDNA sampling.
* 11:50 Finish eDNA sampling and deploy mooring.
* 12:00 Complete operations. Depart for **A-5C**
* **38 20.16, -74 43.38**
* 12:15 Arrive **A-5C**. Conduct eDNA sampling.
* 12:30 Finish eDNA sampling and deploy mooring.
* 12:40 Complete operations. Depart for **MBON3**
* **38 20.1629, -74 47.9**
* 12:55 Arrive **MBON3**. Conduct eDNA sampling.
* 13:10 Finish eDNA sampling and deploy mooring.
* 13:20 Complete operations. Depart for **MBON2**
* **38 20.1629, -74 52.42**
* 13:35 Arrive **MBON2**. Conduct eDNA sampling.
* 13:50 Finish eDNA sampling and deploy mooring.
* 14:00 Complete operations. Depart for **T-1C**
* **38 20.16, -74 56.94**
* 14:15 Arrive **T-1C**. Conduct eDNA sampling.
* 14:30 Finish eDNA sampling and deploy mooring.
* 14:40 Complete operations. Depart for **MBON1**
* **38 20.1611, -75 0.9021**
* 14:55 Arrive **MBON1**. Conduct eDNA sampling.
* 15:10 Finish eDNA sampling and deploy mooring.
* 15:20 Complete operations. Depart for **Lewes**
* 17:05 Arrive **Lewes**.

## Distances

Distance, nautical miles

|  | Lewes | T-3C | T-2C | MBON5 | MBON4 | A-5C | MBON3 | MBON2 | T-1C | MBON1 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Lewes | 0.00 | 47.24 | 41.68 | 39.27 | 37.01 | 34.95 | 33.04 | 31.42 | 30.13 | 29.30 |
| T-3C | 47.24 | 0.00 | 7.30 | 10.72 | 14.14 | 17.57 | 21.11 | 24.66 | 28.21 | 31.32 |
| T-2C | 41.68 | 7.30 | 0.00 | 3.42 | 6.84 | 10.27 | 13.81 | 17.36 | 20.91 | 24.02 |
| MBON5 | 39.27 | 10.72 | 3.42 | 0.00 | 3.42 | 6.84 | 10.39 | 13.94 | 17.49 | 20.60 |
| MBON4 | 37.01 | 14.14 | 6.84 | 3.42 | 0.00 | 3.42 | 6.97 | 10.52 | 14.07 | 17.18 |
| A-5C | 34.95 | 17.57 | 10.27 | 6.84 | 3.42 | 0.00 | 3.55 | 7.10 | 10.64 | 13.75 |
| MBON3 | 33.04 | 21.11 | 13.81 | 10.39 | 6.97 | 3.55 | 0.00 | 3.55 | 7.10 | 10.21 |
| MBON2 | 31.42 | 24.66 | 17.36 | 13.94 | 10.52 | 7.10 | 3.55 | 0.00 | 3.55 | 6.66 |
| T-1C | 30.13 | 28.21 | 20.91 | 17.49 | 14.07 | 10.64 | 7.10 | 3.55 | 0.00 | 3.11 |
| MBON1 | 29.30 | 31.32 | 24.02 | 20.60 | 17.18 | 13.75 | 10.21 | 6.66 | 3.11 | 0.00 |

Distance, time at 17 kts

|  | Lewes | T-3C | T-2C | MBON5 | MBON4 | A-5C | MBON3 | MBON2 | T-1C | MBON1 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Lewes | - | 02 h 50 m | 02 h 30 m | 02 h 20 m | 02 h 15 m | 02 h 05 m | 02 h 00 m | 01 h 55 m | 01 h 50 m | 01 h 45 m |
| T-3C | 02 h 50 m | - | 00 h 30 m | 00 h 40 m | 00 h 50 m | 01 h 05 m | 01 h 15 m | 01 h 30 m | 01 h 40 m | 01 h 55 m |
| T-2C | 02 h 30 m | 00 h 30 m | - | 00 h 15 m | 00 h 25 m | 00 h 40 m | 00 h 50 m | 01 h 05 m | 01 h 15 m | 01 h 25 m |
| MBON5 | 02 h 20 m | 00 h 40 m | 00 h 15 m | - | 00 h 15 m | 00 h 25 m | 00 h 40 m | 00 h 50 m | 01 h 05 m | 01 h 15 m |
| MBON4 | 02 h 15 m | 00 h 50 m | 00 h 25 m | 00 h 15 m | - | 00 h 15 m | 00 h 25 m | 00 h 40 m | 00 h 50 m | 01 h 05 m |
| A-5C | 02 h 05 m | 01 h 05 m | 00 h 40 m | 00 h 25 m | 00 h 15 m | - | 00 h 15 m | 00 h 30 m | 00 h 40 m | 00 h 50 m |
| MBON3 | 02 h 00 m | 01 h 15 m | 00 h 50 m | 00 h 40 m | 00 h 25 m | 00 h 15 m | - | 00 h 15 m | 00 h 30 m | 00 h 40 m |
| MBON2 | 01 h 55 m | 01 h 30 m | 01 h 05 m | 00 h 50 m | 00 h 40 m | 00 h 30 m | 00 h 15 m | - | 00 h 15 m | 00 h 25 m |
| T-1C | 01 h 50 m | 01 h 40 m | 01 h 15 m | 01 h 05 m | 00 h 50 m | 00 h 40 m | 00 h 30 m | 00 h 15 m | - | 00 h 15 m |
| MBON1 | 01 h 45 m | 01 h 55 m | 01 h 25 m | 01 h 15 m | 01 h 05 m | 00 h 50 m | 00 h 40 m | 00 h 25 m | 00 h 15 m | - |