MOCNESS-1 (R/V Cook) and MOCNESS-10 (R/V Sarmiento) overlap:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Ship** | **Date (during time in)** | **Time in** | **Time out** | **Tow #** | **Lat/long start** | **Lat/long end** |
| Sarmiento | 6 May 2021 | 1220 | ~1430? | 1 | 48 56’ 9.78  14 49’ 5.47 | 48 56 38.7  14 5315.71(?) |
| Cook | 6 May 2021 | 1053 | 1454 | 10 | 48 56. 15448  14 48.2098 | 48 58.145  15 02.572 |
| Sarmiento | 6 May 2021 | 2133 | 0011 | 2 | 48 57’2.83  14 48’51.0 |  |
| Cook (tow 11 = part 1) | 6 May 2021 | 2130 | 0128 | 11 | 48 58.125  14 48.108 | 48 58.493  15 02.144 |
| Cook (tow 12 = part 2) | 7 May 2021 | 0202 | 0231 | 12 | 48 58.549  15 4.055 | 48 58.592  15 5.518 |
| Sarmiento | 17 May 2021 | 1116 | 1414 | 7 | 48 55.14  14 49.130 |  |
| Cook | 17 May 2021 | 1007 | 1409 | 47 | 48 56.149  14 49.821 | 48 53.604  15 02.906 |
| Sarmiento | 17 May 2021 | 2345 | 0254 | 8 | **49 03.630**  **15 03.88** |  |
| Cook | 17 May 2021 | 2225 | 0218 | 48 | **48 56.371**  **14 50.415** | 48 59.551  15 02.750 |

Three tows that overlapped best with Cook in time and space: Sarmiento tows 1, 2, and 7, with Cook tows 10, 11/12, and 47. Sarmiento tow 8 and Cook tow 48 overlapped in time but not as closely in space because Sarmiento was with edge experiment west of the A2 core and the Cook was in the eddy core.

Acoustics overlap:

Same as above. Are there additional times when there was good overlap between the ships, or better to focus on the times above (particularly the first three where Cook and Sarmiento are together in time *and* in space?)

Would it be helpful to find place where there was overlap with Discovery too?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Ship** | **Date (during start time)** | **Start time** | **End time** | **Lat/long start** | **Lat/long end** |
| Sarmiento |  |  |  |  |  |
| Cook |  |  |  |  |  |
| Discovery |  |  |  |  |  |