Supplementary Material

**Tab. S2. *D. cornigera* occurrences from ROV video analysis.** Table showing the location, latitude and longitude, depth and number of colonies of *D. cornigera* sites extracted from ROV video analysis.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Location** | **Area** | **ROV** | **Site** | **Latitude** | **Longitude** | **Depth (m)** | ***D. cornigera* colonies** |
| Adriatic Sea | Bari Canyon | A207 | A207\_1 | 41° 17' 16" N | 17° 16' 37" E | 443 | 1 |
| Adriatic Sea | Bari Canyon | A210 | A210\_1 | 41° 17' 18" N | 17° 17' 09" E | 510 | 1 |
| Adriatic Sea | Bari Canyon | A51 | A51\_1 | 41° 17' 15" N | 17° 16' 36" E | 418 | 2 |
| Adriatic Sea | Bari Canyon | SIRIAD04 | SIRIAD04\_1 | 41° 17' 15" N | 18° 40' 26" E | 420 | 1 |
| Adriatic Sea | Bari Canyon | MS1522 | MS1522\_1 | 41° 19' 03" N | 18° 36' 20" E | 272 | 1 |
| Adriatic Sea | Monopoli | MS17\_179 | MS17\_179\_1 | 41° 04' 50" N | 18° 36' 33" E | 494 | 2 |
| Adriatic Sea | Monopoli | MS17\_179 | MS17\_179\_2 | 41° 04' 50" N | 18° 36' 34" E | 494 | 4 |
| Adriatic Sea | Monopoli | MS17\_179 | MS17\_179\_3 | 41° 04' 49" N | 17° 04' 59" E | 490 | 4 |
| Adriatic Sea | Monopoli | MS17\_179 | MS17\_179\_4 | 41° 04' 49" N | 18° 12' 01" E | 491 | 1 |
| Adriatic Sea | Monopoli | MS17\_179 | MS17\_179\_5 | 41° 04' 45" N | 18° 11' 56" E | 463 | 1 |
| Adriatic Sea | Off Montenegro | A63 | A63\_1 | 41° 38' 53" N | 18° 11' 56" E | 455 | 1 |
| Adriatic Sea | Off Montenegro | A68 | A68\_1 | 41° 41' 04" N | 18° 12' 02" E | 504 | 1 |
| Adriatic Sea | Off Montenegro | ALTRO44 | ALTRO44\_1 | 41° 40' 44" N | 16° 48' 07" E | 433 | 1 |
| Adriatic Sea | Off Montenegro | ALTRO44 | ALTRO44\_2 | 41° 40' 44" N | 16° 48' 12" E | 436 | 1 |
| Ionian Sea | Amendolara Seamount | MS17\_092 | MS17\_092\_1 | 39° 49' 49" N | 16° 48' 13" E | 199 | 8 |
| Ionian Sea | Amendolara Seamount | MS17\_092 | MS17\_092\_2 | 39° 49' 48" N | 16° 48' 13" E | 200 | 1 |
| Ionian Sea | Amendolara Seamount | MS17\_092 | MS17\_092\_3 | 39° 49' 49" N | 16° 48' 14" E | 200 | 1 |
| Ionian Sea | Amendolara Seamount | MS17\_092 | MS17\_092\_4 | 39° 49' 49" N | 16° 48' 15" E | 199 | 2 |
| Ionian Sea | Amendolara Seamount | MS17\_092 | MS17\_092\_5 | 39° 49' 50" N | 16° 48' 15" E | 199 | 1 |
| Ionian Sea | Amendolara Seamount | MS17\_092 | MS17\_092\_6 | 39° 49' 52" N | 16° 48' 16" E | 199 | 1 |
| Ionian Sea | Amendolara Seamount | MS17\_092 | MS17\_092\_7 | 39° 49' 53" N | 16° 48' 16" E | 197 | 1 |
| Ionian Sea | Amendolara Seamount | MS17\_092 | MS17\_092\_8 | 39° 49' 53" N | 16° 48' 16" E | 199 | 1 |
| Ionian Sea | Amendolara Seamount | MS17\_092 | MS17\_092\_9 | 39° 49' 54" N | 16° 48' 17" E | 203 | 2 |
| Ionian Sea | Amendolara Seamount | MS17\_092 | MS17\_092\_10 | 39° 49' 55" N | 16° 48' 07" E | 204 | 1 |
| Ionian Sea | Amendolara Seamount | MS17\_092 | MS17\_092\_11 | 39° 49' 55" N | 16° 48' 17" E | 204 | 3 |
| Ionian Sea | Amendolara Seamount | MS17\_092 | MS17\_092\_12 | 39° 49' 56" N | 16° 48' 17" E | 205 | 1 |
| Ionian Sea | Amendolara Seamount | MS17\_092 | MS17\_092\_13 | 39° 49' 56" N | 16° 48' 18" E | 205 | 1 |
| Ionian Sea | Amendolara Seamount | MS17\_092 | MS17\_092\_14 | 39° 49' 57" N | 16° 48' 18" E | 205 | 1 |
| Ionian Sea | Amendolara Seamount | MS17\_092 | MS17\_092\_15 | 39° 49' 58" N | 16° 48' 19" E | 199 | 1 |
| Ionian Sea | Amendolara Seamount | MS17\_092 | MS17\_092\_16 | 39° 49' 59" N | 16° 48' 19" E | 199 | 6 |
| Ionian Sea | Amendolara Seamount | MS17\_092 | MS17\_092\_17 | 39° 49' 59" N | 16° 48' 08" E | 198 | 1 |
| Ionian Sea | Amendolara Seamount | MS17\_092 | MS17\_092\_18 | 39° 49' 60" N | 16° 48' 08" E | 197 | 2 |
| Ionian Sea | Amendolara Seamount | MS17\_092 | MS17\_092\_19 | 39° 50' 00" N | 16° 48' 08" E | 197 | 1 |
| Ionian Sea | Amendolara Seamount | MS17\_092 | MS17\_092\_20 | 39° 50' 01" N | 16° 48' 10" E | 198 | 1 |
| Ionian Sea | Amendolara Seamount | MS17\_092 | MS17\_092\_21 | 39° 50' 01" N | 16° 48' 11" E | 195 | 1 |
| Ionian Sea | Amendolara Seamount | MS17\_092 | MS17\_092\_22 | 39° 50' 01" N | 16° 48' 11" E | 193 | 2 |
| Ionian Sea | Amendolara Seamount | MS17\_092 | MS17\_092\_23 | 39° 50' 02" N | 16° 48' 11" E | 186 | 1 |
| Ionian Sea | Amendolara Seamount | MS17\_092 | MS17\_092\_24 | 39° 50' 02" N | 16° 47' 47" E | 186 | 2 |
| Ionian Sea | Amendolara Seamount | MS17\_092 | MS17\_092\_25 | 39° 50' 03" N | 16° 47' 28" E | 181 | 5 |
| Ionian Sea | Amendolara Seamount | MS17\_093 | MS17\_093\_1 | 39° 50' 50" N | 16° 47' 43" E | 172 | 1 |
| Ionian Sea | Amendolara Seamount | MS17\_093 | MS17\_093\_2 | 39° 50' 52" N | 16° 47' 41" E | 162 | 4 |
| Ionian Sea | Amendolara Seamount | MS17\_093 | MS17\_093\_3 | 39° 50' 53" N | 16° 47' 39" E | 167 | 1 |
| Ionian Sea | Amendolara Seamount | MS17\_093 | MS17\_093\_4 | 39° 50' 54" N | 16° 47' 38" E | 167 | 1 |
| Ionian Sea | Amendolara Seamount | MS17\_093 | MS17\_093\_5 | 39° 50' 54" N | 16° 47' 38" E | 167 | 2 |
| Ionian Sea | Amendolara Seamount | MS17\_093 | MS17\_093\_6 | 39° 50' 54" N | 16° 47' 37" E | 166 | 3 |
| Ionian Sea | Amendolara Seamount | MS17\_093 | MS17\_093\_7 | 39° 50' 54" N | 16° 47' 29" E | 163 | 3 |
| Ionian Sea | Amendolara Seamount | MS17\_093 | MS17\_093\_8 | 39° 50' 57" N | 16° 47' 29" E | 137 | 1 |
| Ionian Sea | Amendolara Seamount | MS17\_093 | MS17\_093\_9 | 39° 50' 57" N | 18° 22' 14" E | 133 | 1 |
| Ionian Sea | Amendolara Seamount | MS17\_093 | MS17\_093\_10 | 39° 50' 57" N | 18° 22' 12" E | 138 | 2 |
| Ionian Sea | Santa Maria di Leuca | MS16\_095 | MS16\_095\_1 | 39° 34' 48" N | 18° 21' 30" E | 498 | 6 |
| Ionian Sea | Santa Maria di Leuca | MS16\_100 | MS16\_100\_1 | 39° 35' 01" N | 17° 34' 41" E | 482 | 2 |
| Ionian Sea | Santa Maria di Leuca | MS16\_100 | MS16\_100\_2 | 39° 35' 01" N | 17° 34' 41" E | 482 | 2 |
| Ionian Sea | Santa Maria di Leuca | MS16\_100 | MS16\_100\_3 | 39° 34' 54" N | 17° 34' 41" E | 486 | 3 |
| Ionian Sea | Santa Maria di Leuca | MS17\_115 | MS17\_115\_1 | 39° 44' 04" N | 17° 34' 40" E | 128 | 1 |
| Ionian Sea | Santa Maria di Leuca | MS17\_115 | MS17\_115\_2 | 39° 44' 06" N | 17° 34' 36" E | 119 | 1 |
| Ionian Sea | Santa Maria di Leuca | MS17\_117 | MS17\_117\_1 | 39° 42' 24" N | 08° 54' 43" E | 123 | 1 |
| Tyrrhenian Sea | Nora Canyon | RECORD22 | RECORD22\_1 | 38° 42' 09" N | 08° 54' 44" E | 463 | 1 |
| Tyrrhenian Sea | Nora Canyon | RECORD22 | RECORD22\_2 | 38° 42' 09" N | 08° 54' 44" E | 458 | 7 |
| Tyrrhenian Sea | Nora Canyon | RECORD22 | RECORD22\_3 | 38° 42' 09" N | 08° 54' 44" E | 454 | 1 |
| Tyrrhenian Sea | Nora Canyon | RECORD22 | RECORD22\_4 | 38° 42' 10" N | 08° 54' 45" E | 453 | 1 |
| Tyrrhenian Sea | Nora Canyon | RECORD22 | RECORD22\_5 | 38° 42' 11" N | 17° 16' 39" E | 441 | 1 |