Copied from https://saga.pmel.noaa.gov/dms/ (14 November 2013).

Used for quality control and to keep track of individual studies and related issues.

High DMS but pre-satellite era

High DMS satellite era (after 1997 Sept SeaWiFS launch)

ISSUES IN DATA (not all issues marked)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Contr.  Num** | **Contributor** | **Platform** | **Region** | **Num  Samples** | **Start** | **End** | **Reference(s)** |
| 1 | Kettle\_D | Shackleton | Atlantic | 20 | 1972-03-11 | 1972-04-03 | Lovelock et al., 1972 Liss et al., 1997 |
| 2 | Kettle\_D | unknown ship | Atlantic, Indian | 19 | 1977-03-15 | 1978-05-15 | Nguyen et al., 1978 |
| 3 | Andreae | Bellows | Florida Strait | 40 | 1980-04-07 | 1980-04-16 | Andreae et al., 1983 |
| 4 | Andreae | Meteor | Atlantic | 231 | 1980-10-09 | 1980-11-07 | Andreae and Barnard, 1984 Barnard et al., 1982 |
| 5 | Andreae | unknown ship | Bering Sea | 13 | 1981-05-04 | 1981-05-24 | Barnard et al., 1984 |
| 6 | Andreae | Columbus Iselin | Sargasso Sea | 67 | 1981-09-18 | 1981-09-28 | Andreae and Barnard, 1984 |
| 7 | Andreae | Bellows | Charlotte Harbour | 30 | 1981-10-31 | 1981-10-31 | Froelich et al., 1985 |
| 8 | Bates | Discoverer | Pacific | 70 | 1982-05-08 | 1982-05-21 | Bates et al., 1987 Bates and Quinn, 1997 Cline and Bates, 1983 |
| 9 | Andreae | Conrad | Peru Shelf | 294 | 1982-06-23 | 1982-08-06 | Andreae, 1985 Andreae and Raemdonck, 1983 |
| 10 | Bingemer | Polarstern | Southern, Atlantic | 89 | 1983-01-04 | 1983-01-19 | Bingemer, 1984 Bingemer et al., 1987 |
| 11 | Bates | Discoverer | Pacific | 24 | 1983-03-04 | 1983-03-20 | Bates et al., 1987 Bates and Quinn, 1997 |
| 12 | Bingemer | Polarstern | Southern, Atlantic | 79 | 1983-03-30 | 1983-04-22 | Bingemer, 1984 Bingemer et al., 1987 |
| 13 | Bates | Discoverer | Pacific | 267 | 1983-04-02 | 1983-05-01 | Bates and Quinn, 1997 Bates et al., 1987 |
| 14 | Bates | Discoverer | Pacific | 123 | 1983-05-13 | 1983-05-22 | Bates et al., 1990 Bates et al., 1987 Bates and Cline, 1985 |
| 15 | Andreae | Bellows | Bahamas | 99 | 1983-11-06 | 1983-11-22 | Andreae et al., 1985 |
| 16 | Bates | Discoverer | Pacific | 48 | 1984-02-15 | 1984-02-23 | Bates and Cline, 1985 Bates et al., 1987 Bates and Quinn, 1997 |
| 17 | Bates | Discoverer | Pacific | 7 | 1984-03-20 | 1984-03-22 | Bates et al., 1987 Bates and Quinn, 1997 |
| 18 | Bates | Discoverer | Pacific | 53 | 1984-04-02 | 1984-04-28 | Bates and Quinn, 1997 Bates et al., 1987 |
| 19 | Andreae | Knorr | Atlantic | 97 | 1984-04-24 | 1984-05-11 | Andreae et al., 1985 |
| 20 | Kettle\_D | Frederick Russell | English Channel | 27 | 1984-06-18 | 1984-06-19 | Holligan et al., 1987 |
| 21 | Bates | McArthur | Pacific | 62 | 1984-08-28 | 1984-09-27 | Bates et al., 1987 Bates and Cline, 1985 Bates et al., 1990 |
| 22 | Turner | Cirolana | English Channel | 176 | 1985-01-06 | 1985-01-19 | Turner et al., 1989 Turner et al., 1988 |
| 23 | Turner | unknown ship | Oosterschelde | 64 | 1985-05-01 | 1985-05-03 | unpublished |
| 24 | Bates | McArthur | Pacific | 116 | 1985-05-14 | 1985-06-09 | Bates et al., 1990 Bates et al., 1987 |
| 25 | Bates | Discoverer | Pacific, Arctic | 211 | 1985-06-29 | 1985-10-08 | Bates et al., 1990 Bates et al., 1987 |
| 26 | Turner | Frederick Russell | around Britain | 186 | 1985-07-10 | 1985-08-02 | Turner et al., 1988 |
| 27 | Andreae | Cape Florida | Mid-Atlantic Bight | 224 | 1986-02-03 | 1986-02-15 | Iverson et al., 1989 Berresheim et al., 1991 |
| 28 | Berresheim | Polar Duke | Southern | 141 | 1986-03-21 | 1986-04-26 | Berresheim, 1987 Berresheim et al., 1989 |
| 29 | Bates | McArthur | Pacific | 53 | 1986-04-22 | 1986-04-30 | Bates et al., 1990 |
| 30 | Andreae | Columbus Iselin | Mid-Atlantic Bight | 114 | 1986-04-22 | 1986-05-02 | Iverson et al., 1989 Berresheim et al., 1991 |
| 31 | Turner | Charles Darwin | southern North Sea, English Channel | 151 | 1986-05-01 | 1986-05-13 | Turner et al., 1989 |
| 32 | Bates | McArthur | Pacific | 27 | 1986-06-11 | 1986-06-14 | Bates et al., 1990 |
| 33 | Andreae | Columbus Iselin | Mid-Atlantic Bight | 153 | 1986-09-02 | 1986-09-13 | Iverson et al., 1989 Berresheim et al., 1991 |
| 34 | Kettle\_D | station B1 | Baltic Sea | 24 | 1987-03-28 | 1988-06-09 | Leck et al., 1990 |
| 35 | Kettle\_D | Amsterdam Island | Indian | 23 | 1987-04-01 | 1988-02-26 | Nguyen et al., 1990 |
| 36 | Bingemer | Polarstern | Atlantic | 98 | 1987-03-23 | 1987-04-17 | B�rgermeister et al., 1990 |
| 37 | Nguyen, Putaud, Mihalopoulos | unknown ship | Indian Ocean, Mediterranean | 66 | 1986-04-03 | 1987-07-25 | Mihalopoulos, 1989 Mihalopoulos et al., 1992 |
| 38 | Turner | unknown ship | northern North Sea | 162 | 1987-04-23 | 1987-05-10 | Turner et al., 1989 |
| 39 | Kettle\_D | from ice | Antarctica | 14 | 1987-05-12 | 1988-01-21 | Gibson et al., 1988 |
| 40 | Bates | McArthur | Pacific | 55 | 1987-05-14 | 1987-05-21 | Bates et al., 1990 |
| 41 | Turner | Challenger | NE Atlantic | 158 | 1987-06-09 | 1987-07-01 | Turner et al., 1989 |
| 42 | Bates | Akademik Korolev | Indian and Pacific Oceans | 100 | 1987-06-16 | 1987-07-24 | unpublished |
| 43 | Kettle\_D | helicopter | Baltic Sea | 14 | 1987-09-01 | 1987-09-01 | Leck et al., 1990 |
| 44 | Kettle\_D | Hakuho-Maru | Pacific | 21 | 1988-01-26 | 1988-03-10 | Uchida et al., 1992 |
| 45 | Kettle\_D | Amsterdam Island | Indian | 22 | 1989-02-15 | 1990-11-15 | Nguyen et al., 1992 |
| 46 | Bates | Oceanographer | Pacific | 70 | 1988-04-08 | 1988-05-05 | Quinn et al., 1990 Bates and Quinn, 1997 |
| 47 | Turner | Challenger | North Sea | 55 | 1988-04-08 | 1988-04-23 | unpublished |
| 48 | Leck | helicopter | Baltic Sea | 24 | 1988-07-12 | 1988-07-12 | Leck and Rodhe, 1991 |
| 49 | Kettle\_D | Hakuho-Maru | Pacific | 29 | 1988-07-08 | 1988-07-30 | Watanabe et al., 1995a |
| 50 | Leck | helicopter | Baltic Sea | 35 | 1988-07-19 | 1988-07-20 | Leck and Rodhe, 1991 |
| 51 | Leck | helicopter | North Sea | 30 | 1988-07-26 | 1988-07-26 | Leck and Rodhe, 1991 |
| 52 | Kettle\_D | Hakuho-Maru | Pacific | 37 | 1988-08-05 | 1988-08-23 | Watanabe et al., 1995b |
| 53 | Bingemer | Polarstern | Atlantic | 60 | 1988-09-17 | 1988-10-05 | Staubes-Diederich, 1992 Staubes and Georgii, 1993b Staubes and Georgii, 1993a |
| 54 | McTaggart | Icebird | Southern | 44 | 1988-11-06 | 1989-01-24 | McTaggart and Burton, 1992 |
| 55 | Turner | Challenger | North Sea | 798 | 1989-01-29 | 1989-10-02 | Turner et al., 1996a Liss et al., 1993 |
| 56 | Bates | Discoverer | Pacific | 108 | 1989-02-17 | 1989-04-20 | Bates et al., 1992 Bates and Quinn, 1997 |
| 57 | Kettle\_D | Polarstern | Atlantic | 83 | 1989-03-14 | 1989-04-03 | Tanzer and Heumann, 1992 |
| 58 | Matrai | Columbus Iselin | Sargasso Sea | 39 | 1989-04-22 | 1989-04-25 | Matrai et al., 1996 |
| 59 | Bates | McArthur | Pacific | 62 | 1989-05-31 | 1989-06-09 | unpublished |
| 60 | Staubes | Polarstern | Atlantic | 102 | 1989-08-06 | 1989-09-01 | Staubes-Diederich, 1992 Staubes and Georgii, 1993b Staubes and Georgii, 1993a |
| 61 | Matrai | Atlantis II | near New Jersey | 9 | 1989-08-24 | 1989-09-03 | Matrai et al., 1993 |
| 62 | Matrai | Atlantis II | New England | 12 | 1989-08-21 | 1989-08-23 | Matrai et al., 1993 |
| 63 | Helas, Schebeske, Andreae | Polarstern | Southern | 62 | 1990-01-29 | 1990-03-06 | unpublished |
| 64 | Bates | Akademik Korolev | Pacific | 744 | 1990-02-20 | 1990-03-09 | Bates et al., 1993 Bates and Quinn, 1997 |
| 65 | Bates | Discoverer | Pacific | 136 | 1990-04-09 | 1990-04-26 | unpublished |
| 66 | Kettle\_D | l'Atalante | Mediterranean Sea | 17 | 1991-05-16 | 1991-05-22 | Belviso et al., 1993 |
| 67 | Matrai | Cape Hatteras | Gulf of Maine | 8 | 1990-07-08 | 1990-07-13 | Matrai and Keller, 1993 |
| 68 | Keller | Cape Hatteras | Gulf of Maine | 10 | 1990-07-08 | 1990-07-13 | Matrai and Keller, 1993 |
| 69 | Staubes | Polarstern | Greenland Sea | 85 | 1990-07-12 | 1990-08-09 | Staubes-Diederich, 1992 Staubes and Georgii, 1993b Staubes and Georgii, 1993a |
| 70 | Keller | unknown ship | Gulf of Maine | 27 | 1990-08-07 | 1991-10-07 | unpublished |
| 71 | Staubes | Polarstern | Southern, Atlantic | 210 | 1990-10-22 | 1990-12-22 | Staubes and Georgii, 1993b Staubes and Georgii, 1993a Staubes-Diederich, 1992 |
| 72 | Andreae | Meteor | Atlantic | 342 | 1991-02-12 | 1991-03-20 | Andreae et al., 1994 |
| 74 | Bates | Discoverer | Pacific | 616 | 1991-04-16 | 1991-05-01 | Bates et al., 1994 |
| 75 | Keller | unknown ship | Gulf of Maine | 38 | 1991-04-23 | 1991-04-29 | unpublished |
| 76 | Turner | Charles Darwin | Atlantic | 152 | 1991-06-14 | 1991-06-27 | Holligan et al., 1993 |
| 77 | Keller | unknown ship | Gulf of Maine | 39 | 1991-07-06 | 1991-07-14 | unpublished |
| 78 | Leck | Oden | Arctic | 303 | 1991-08-04 | 1991-10-06 | Leck and Persson, 1996 |
| 79 | Nguyen, Putaud, Mihalopoulos | l'Atalante | Atlantic | 110 | 1991-09-18 | 1991-10-23 | Putaud et al., 1993a Putaud et al., 1993b |
| 80 | Kettle\_D | from shore | North Sea | 27 | 1991-11-14 | 1993-06-11 | Kwint and Kramer, 1996 |
| 81 | Rapsomanikis | Polarstern | Southern | 52 | 1991-12-11 | 1991-12-28 | Kirst et al., 1993 |
| 82 | Kettle\_D | Weatherbird | Sargasso Sea | 44 | 1992-01-29 | 1993-10-25 | Siegel and Michaels, 1996 |
| 83 | DiTullio | Polar Duke | Ross Sea | 30 | 1992-02-07 | 1992-02-26 | DiTullio and Smith, 1993 DiTullio and Smith, 1995 |
| 84 | Bates | Vickers | Pacific | 952 | 1992-02-22 | 1992-03-20 | Yvon et al., 1996 Kieber et al., 1996 |
| 85 | Kiene | Vickers | Pacific | 26 | 1992-02-24 | 1992-03-08 | unpublished |
| 86 | Keller | unknown ship | Gulf of Maine | 8 | 1992-04-02 | 1992-04-10 | unpublished |
| 87 | Andreae | Meteor | Atlantic | 89 | 1993-04-16 | 1993-05-03 | Pfannkuche et al., 1993 |
| 88 | Boniforti | unknown ship | Mediterranean Sea | 78 | 1992-04-28 | 1994-10-05 | unpublished Boniforti et al., 1993 |
| 89 | Nguyen, Putaud, Mihalopoulos | Le Suroit | Atlantic | 70 | 1992-06-02 | 1992-06-21 | Putaud and Nguyen, 1996 |
| 90 | Kettle\_D | Oceanus | Atlantic | 76 | 1992-06-12 | 1992-06-20 | Blomquist et al., 1996 |
| 91 | Keller | unknown ship | Gulf of Maine | 2 | 1992-07-12 | 1992-07-14 | unpublished |
| 92 | Kettle\_D | Hudson | Atlantic Ocean | 26 | 1992-09-20 | 1992-10-19 | unpublished Groene, 1995 |
| 93 | Curran, Jones | unknown ship | Great Barrier Reef | 12 | 1992-09-19 | 1992-09-21 | unpublished |
| 94 | Curran, Jones | unknown ship | Tasman Sea | 18 | 1992-09-22 | 1992-10-04 | unpublished |
| 95 | Turner | James Clark Ross | Southern Ocean | 125 | 1992-10-29 | 1992-11-28 | Turner et al., 1995 |
| 96 | Kettle\_D | Discovery | Southern Ocean | 39 | 1992-11-24 | 1992-11-28 | Turner et al., 1995 |
| 97 | Turner | RRS Discovery | Southern Ocean | 101 | 1993-02-10 | 1993-03-14 | Chuck et al., 2005 |
| 98 | Kettle\_D | Kaiyo, Tansei Maru | East China Sea | 50 | 1993-02-28 | 1994-08-15 | Uzuka et al., 1996 |
| 99 | Bates | Surveyor | Pacific | 1308 | 1993-03-21 | 1993-05-07 | Bates and Quinn, 1997 |
| 100 | Matrai | Jan Mayen | Barents Sea | 18 | 1993-05-13 | 1993-05-29 | Matrai and Vernet, 1997 |
| 101 | Kettle\_D | unknown ship | Jiaozhou Bay, China | 34 | 1993-01-15 | 1994-09-15 | Hu et al., 1997 |
| 102 | Simo | Hesperides, Discovery | Mediterranean Sea | 53 | 1993-06-01 | 1994-07-21 | Sim� et al., 1997 Sim� et al., 1995 |
| 103 | Rapsomanikis | Aegaio | Aegean Sea | 55 | 1993-07-04 | 1993-07-15 | unpublished |
| 104 | Levasseur | Fogo Isle | Gulf of St. Lawrence | 64 | 1993-08-03 | 1993-08-09 | Cantin et al., 1996 |
| 105 | Kettle\_D | from shore | New Zealand | 37 | 1993-08-31 | 1993-11-13 | Lee and de Mora, 1996 |
| 106 | Kettle\_D | from shore | Gulf Mexico | 38 | 1993-09-17 | 1994-12-14 | Kiene, 1996 |
| 107 | Yang | Jinxing No. 2, Donfang-Hong | East China Sea | 14 | 1993-10-15 | 1994-10-15 | Yang et al., 1996 |
| 108 | Bingemer | Polarstern | Southern | 215 | 1993-10-21 | 1994-03-21 | unpublished |
| 109 | Turner | Columbus Iselin | Pacific | 9 | 1993-10-22 | 1993-10-28 | Turner et al., 1996b |
| 110 | Turner | Columbus Iselin | Pacific | 9 | 1993-11-09 | 1993-11-19 | Hatton et al., 1998 |
| 111 | Yang | Experiment No. 3 | South China Sea | 19 | 1993-11-15 | 1993-11-15 | Yang et al., 1999 |
| 112 | Bates | Surveyor | Pacific | 1172 | 1993-11-23 | 1994-01-06 | Bates and Quinn, 1997 |
| 113 | Berresheim | from shore | Southern | 15 | 1994-01-20 | 1994-02-22 | Berresheim et al., 1998 |
| 114 | Andreae, Schebeske | Meteor | Atlantic | 41 | 1994-04-08 | 1994-05-06 | unpublished |
| 115 | Sharma | Polar Sea | Atlantic, Arctic, Pacific | 43 | 1994-07-18 | 1994-08-15 | Sharma et al., 1999 |
| 116 | Uher, Schebeske, Rapsomanikis, Andreae | Meteor | Atlantic | 208 | 1994-09-08 | 1994-09-19 | Uher et al., 1995 |
| 117 | Curran, Jones | Aurora Australis | Southern | 56 | 1994-09-01 | 1994-10-18 | Curran et al., 1998 |
| 118 | Kettle\_D | Discovery | Indian | 19 | 1994-09-09 | 1994-09-11 | Hatton et al., 1999 Hatton et al., 1996 |
| 119 | Amouroux, Andreae | Sonne | Pacific | 89 | 1994-09-08 | 1994-09-16 | unpublished |
| 120 | Curran, Jones | Aurora Australis | Southern | 21 | 1994-12-20 | 1995-01-31 | Curran et al., 1998 |
| 121 | Kettle\_D | Point Sur | California coast | 10 | 1995-04-19 | 1995-05-01 | Ledyard and Dacey, 1996 |
| 122 | Turner | Melville | Pacific | 19 | 1995-05-25 | 1995-06-07 | Turner et al., 1996b |
| 123 | Keller | unknown ship | Gulf of Maine | 3 | 1995-06-17 | 1995-06-21 | unpublished |
| 124 | Uher, Schebeske, Rapsomanikis, Andreae | Valdivia | Atlantic | 393 | 1995-07-15 | 1995-07-28 | Uher et al., 1997 Uher et al., 1996 |
| 125 | Roberts,Amouroux, Andreae | Vodyanitsky | Black Sea | 9 | 1995-07-26 | 1995-07-31 | Amouroux et al., 2002 |
| 126 | Andreae, Schebeske | Meteor | Atlantic | 49 | 1995-08-02 | 1995-08-12 | unpublished |
| 128 | Bates | Discoverer | Pacific,Southern | 1206 | 1995-10-21 | 1995-12-12 | Bates et al., 1998b Bates and Quinn, 1997 |
| 129 | Curran, Jones | Southern Surveyor | Southern | 28 | 1995-11-18 | 1995-12-05 | Curran et al., 1998 |
| 130 | Bates | Discoverer | Pacific | 1068 | 1996-03-15 | 1996-04-12 | Bates and Quinn, 1997 |
| 131 | Leck | Odin | Arctic | 33 | 1996-07-15 | 1996-08-06 | unpublished |
| 132 | DiTullio | unknown ship | Ross Sea | 85 | 1996-12-16 | 1997-01-06 | unpublished |
| 133 | Levasseur | unknown ship | Labrador Sea | 37 | 1997-05-13 | 1997-06-09 | unpublished |
| 134 | Kiene | Pelican | Gulf of Mexico | 13 | 1997-09-23 | 1997-10-01 | unpublished |
| 135 | Belviso | Polarstern | Atlantic | 909 | 1996-10-09 | 1996-11-05 | Belviso et al., 2000 |
| 136 | Sciare | Marion Dufresne | Indian | 463 | 1997-12-03 | 1997-12-19 | Sciare et al., 1999 |
| 137 | Sciare | Marion Dufresne | Indian | 157 | 1998-08-19 | 1998-08-30 | unpublished |
| 138 | Bates | Vodyanitsky | Atlantic | 806 | 1997-06-20 | 1997-07-23 | Bates et al., 1997 |
| 139 | Bates | Ronald H. Brown | Atlantic | 666 | 1999-01-15 | 1999-02-08 | Bates et al., 2001 |
| 140 | Bates | Ronald H. Brown | Indian | 441 | 1999-02-11 | 1999-03-29 | unpublished |
| 141 | Bates | Ronald H. Brown | Pacific, Sea of Japan | 1535 | 2001-03-16 | 2001-04-19 | unpublished |
| 142 | Johnson | Miller Freeman | Bering Sea - Gulf of Alaska | 879 | 2002-05-06 | 2002-05-31 | unpublished |
| 143 | Johnson | Miller Freeman | Bering Sea - Gulf of Alaska | 577 | 2002-06-07 | 2002-06-22 | unpublished |
| 144 | Johnson | Miller Freeman | US West Coast | 571 | 2002-11-07 | 2002-11-22 | unpublished |
| 145 | Johnson | Miller Freeman | Gulf of Alaska - Bering Sea | 2128 | 2003-01-31 | 2003-03-31 | unpublished |
| 146 | Johnson | Miller Freeman | Gulf of Alaska - Bering Sea | 2257 | 2003-04-30 | 2003-06-24 | unpublished |
| 147 | Johnson | Miller Freeman | Gulf of Alaska | 1949 | 2003-06-27 | 2003-08-13 | unpublished |
| 148 | Johnson | Ronald H. Brown | Eastern Equatorial Pacific | 1057 | 2003-10-27 | 2003-11-20 | Huebert et al., 2004 |
| 149 | Belviso | Thalassa | North Atlantic and Mediterranean Sea | 552 | 1999-09-07 | 1999-09-23 | Belviso et al., 2003 |
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| 151 | Wong | John P. Tully | Northeast Pacific | 17 | 1997-02-13 | 1997-09-12 | Wong et al., 2005b Wong et al., 2005 |
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| 153 | Wong | John P. Tully | Northeast Pacific | 8 | 1999-02-10 | 1999-06-22 | Wong et al., 2005b Wong et al., 2005 |
| 154 | Wong | John P. Tully | Northeast Pacific | 11 | 2000-06-01 | 2000-09-15 | Wong et al., 2005b Wong et al., 2005 |
| 155 | Wong | John P. Tully | Northeast Pacific | 8 | 2001-06-18 | 2001-06-25 | Wong et al., 2005b Wong et al., 2005 |
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| 157 | Kiene, Kieber | Nathaniel B. Palmer | Southern Ocean | 45 | 2004-12-19 | 2004-12-27 | Kiene, Kieber, et al. 2007 |
| 158 | Kiene, Kieber | Nathaniel B. Palmer | Southern Ocean | 39 | 2005-10-26 | 2005-11-07 | Kiene, Kieber, et al. 2007 |
| 159 | Malin, Liss, Bell | RRS James Clark Ross | Atlantic Ocean | 132 | 1997-09-17 | 1997-10-16 | Bell et al., 2006 |
| 160 | Malin, Liss, Bell | RRS James Clark Ross | Atlantic Ocean | 107 | 1999-09-19 | 1999-10-12 | Bell et al., 2006 |
| 161 | Malin, Liss, Bell | RRS James Clark Ross | Atlantic Ocean | 57 | 2003-05-16 | 2003-06-12 | Bell et al., 2006 |
| 162 | Malin, Liss, Bell | RRS James Clark Ross | Atlantic Ocean | 26 | 2003-10-02 | 2003-10-11 | Bell et al., 2006 |
| 163 | Malin, Liss, Bell | RRS James Clark Ross | Atlantic Ocean | 66 | 2004-05-03 | 2004-05-26 | Bell et al., 2006 |
| 164 | Johnson | Ronald H. Brown | Gulf of Maine | 1379 | 2004-07-09 | 2004-08-12 | unpublished |
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| 168 | Baker | RRS Challenger | Northeast Atlantic | 204 | 1997-05-12 | 1997-05-29 | Baker et al., 2000 |
| 169 | Saltzman | R/V Wecoma | Equatorial and North Pacific Ocean | 214 | 2004-05-23 | 2004-07-01 | Marandino et al., 2007 |
| 170 | Saltzman | R/V Knorr | Southeastern Pacific Ocean | 82 | 2006-01-11 | 2006-01-24 | Marandino et al., 2009 |
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| 173 | Johnson | Ronald H. Brown | Atlantic Ocean | 105 | 2007-10-09 | 2007-10-12 | unpublished |
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| 175 | Johnson | R/V Knorr | North Atlantic Ocean | 1579 | 2008-03-21 | 2008-04-24 | unpublished |
| 176 | Turner | RRS Challenger | East Atlantic Ocean | 403 | 1996-06-08 | 1996-07-02 | Locarnini et al., 1998 |
| 177 | Turner | RRS Discovery | East Atlantic Ocean | 210 | 1998-06-10 | 1998-07-05 | Jickells, et al., 2008 |
| 178 | Turner | Polarstern | Southern Ocean, Atlantic Sector | 39 | 2000-11-03 | 2000-11-06 | Turner, et al., 2004 |
| 179 | Lee, de Mora, Marsden, Gratton | Pierre Radisson | North Water Polynya, Baffin Bay | 98 | 1998-04-12 | 1998-06-24 | Bouillon et al., 2002 |
| 180 | Lee, DiTullio, Bruland | Kilo Moana | Bering Sea | 80 | 2003-08-12 | 2003-09-05 | unpublished |
| 181 | Lee, DiTullio, Hutchins, Leblanc, Wilhelm | Seward Johnson | North Atlantic Ocean | 76 | 2005-06-06 | 2005-07-03 | unpublished |
| 182 | Lee, DiTullio, Dunbar, Smith | Nathaniel B. Palmer | Ross Sea | 188 | 2005-12-24 | 2006-01-23 | unpublished |
| 183 | Lee, DiTullio, Dunbar, Smith | Nathaniel B. Palmer | Ross Sea | 110 | 2006-11-11 | 2006-12-06 | unpublished |
| 184 | Lee, DiTullio | Nathaniel B. Palmer | New Zealand Sector, Southern Ocean | 212 | 2006-11-03 | 2006-12-11 | unpublished |
| 185 | Lee, DiTullio | RV Knorr | South Atlantic Ocean | 57 | 2007-11-18 | 2007-12-11 | unpublished |
| 186 | Simo | boat | Mediterranean Sea | 37 | 2003-01-13 | 2004-06-28 | Vila-Costa et al., 2008 Vallina, S.M., and R.Sim�, 2007 |
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| 189 | Smythe-Wright | Charles Darwin | Mascarene Plateau, Indian Ocean | 57 | 2002-06-18 | 2002-07-09 | Smythe-Wright et al., 2005 |
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| 192 | Scarratt | CCGS Hudson | NW Atlantic | 139 | 2003-04-25 | 2003-05-15 | Merzouk et al., 2008 Lizotte et al., 2008 |
| 193 | Scarratt | CCGS Martha L. Black | NW Atlantic | 110 | 2003-10-13 | 2003-10-30 | unpublished |
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| 199 | Watanabe and Kasamatsu | R/V Professor Khromov (Far Est Regional Hydrometeorological Research Institute) | Okhotsk Sea | 27 | 2000-06-13 | 2000-06-28 | unpublished |
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| 201 | Kasamatsu | R/V Mirai (JAMSTEC) | Western North Pacific | 60 | 2001-06-07 | 2001-07-07 | unpublished |
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| 203 | Kasamatsu | R/V Hakuho Maru | Central Southern Pacific, Southern Ocean | 46 | 2001-12-08 | 2002-01-17 | Kasamatsu et al., 2005 Kasamatsu et al., 2004 Preunkert et al., 2007 |
| 204 | Kasamatsu | RT/V Umitaka Maru | Southern Ocean (Indian sector) | 53 | 2007-12-27 | 2008-01-10 | unpublished |
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| 208 | Kasamatsu | R/V Hakuho Maru | Southern Ocean (Indian sector) | 23 | 2008-02-05 | 2008-02-22 | unpublished |
| 209 | Kiene | R/V Oceanus | NW Atlantic | 14 | 2002-04-06 | 2002-04-19 | Harada et al., 2004 |
| 210 | Simo | Bilim | E Mediterranean, Black Sea | 13 | 2000-10-06 | 2000-10-28 | Besiktepe et al., 2004 |
| 211 | Matrai | Oden | Arctic Ocean | 55 | 2001-07-11 | 2001-08-17 | Matrai et al., 2007a Matrai et al., 2007b |
| 212 | Matrai and Vernet | R/V Hyas | Balsfjord, Norway | 10 | 1999-03-26 | 1999-05-18 | unpublished |
| 213 | Matrai | R/V Seward Johnson | Sargasso Sea | 42 | 2004-07-15 | 2004-08-01 | Bailey et al., 2008 Gabric et al., 2008 |
| 214 | Belviso | RV Atalante | Northeast Atlantic Ocean | 78 | 2001-02-03 | 2001-02-23 | Belviso et al., 2004b Belviso et al., 2004a |
| 215 | Belviso | RV Atalante | Northeast Atlantic Ocean | 80 | 2001-03-24 | 2001-04-12 | Belviso et al., 2004b Belviso et al., 2004a |
| 216 | Belviso | RV Thalassa | Northeast Atlantic Ocean | 74 | 2001-08-26 | 2001-09-13 | Belviso et al., 2004b Belviso et al., 2004a |
| 217 | Belviso | RV Marion Dufresne II | Indian Sector of the Austral Ocean | 26 | 2005-01-18 | 2005-02-12 | Bopp et al., 2008 Belviso et al., 2008 |
| 218 | Shenoy | FORV Sagar Sampada | Northern Arabian Sea | 15 | 1998-01-04 | 1998-01-20 | Shenoy and Kumar 2007 |
| 219 | Shenoy | ORV Sagar Kanya | Central Indian Ocean | 22 | 1998-02-22 | 1998-03-28 | Shenoy et al., 2002 |
| 220 | Shenoy | ORV Sagar Kanya | Arabian Sea (coastal) | 33 | 1998-07-20 | 1998-08-14 | Shenoy and Kumar 2007 |
| 221 | Shenoy | ORV Sagar Kanya | Bay of Bengal | 15 | 1998-10-30 | 1998-11-05 | Shenoy and Kumar, 2000 |
| 222 | Shenoy | ORV Sagar Kanya | Arabian Sea | 19 | 1998-12-01 | 1998-12-10 | Shenoy and Kumar 2007 |
| 223 | Shenoy | ORV Sagar Kanya | Central Indian Ocean | 51 | 1999-01-27 | 1999-03-10 | Shenoy et al., 2002 |
| 224 | Shenoy | ORV Sagar Kanya | Bay of Bengal | 32 | 1999-07-27 | 1999-08-05 | Shenoy and Kumar 2007 |
| 225 | Shenoy | ORV Sagar Kanya | Bay of Bengal | 55 | 1999-08-11 | 1999-08-31 | Shenoy and Kumar 2007 |
| 226 | Shenoy | ORV Sagar Kanya | Arabian Sea (coastal) | 21 | 1999-09-10 | 1999-10-10 | Shenoy and Kumar 2007 |
| 227 | Shenoy | ORV Sagar Kanya | Southern Bay of Bengal | 42 | 2000-01-29 | 2000-02-19 | Shenoy and Kumar 2007 |
| 228 | Shenoy | ORV Sagar Kanya | Arabian Sea | 17 | 2000-11-06 | 2000-11-14 | Shenoy and Kumar 2007 |
| 229 | Shenoy | ORV Sagar Kanya | Bay of Bengal | 18 | 2001-07-10 | 2001-08-01 | Shenoy and Paul, 2006 |
| 230 | Dacey | unknown ship | Hydrostation S, Bermuda Atlantic Timeseries | 126 | 1992-01-29 | 1992-11-24 | Dacey et al., 1998 |
| 231 | Dacey | unknown ship | Hydrostation S, Bermuda Atlantic Timeseries | 276 | 1993-01-15 | 1993-11-11 | Dacey et al., 1998 |
| 232 | Dacey | unknown ship | Hydrostation S, Bermuda Atlantic Timeseries | 71 | 1994-01-18 | 1994-11-15 | Dacey et al., 1998 |
| 233 | Saltzman | R/V Knorr | North Atlantic Ocean | 215 | 2007-07-17 | 2007-07-24 | Marandino et al., 2008 |
| 234 | Lee, DiTullio, Balch | RV Roger Revelle | South Atlantic Ocean | 125 | 2008-12-05 | 2008-12-31 | unpublished |
| 235 | Bange | R/V Atalante | Mauritanian coast | 43 | 2008-02-05 | 2008-02-19 | Unpublished  **Zindler 2012** |
| 236 | Simo | B.I.O. Hesperides | Antarctica | 53 | 2009-01-28 | 2009-02-25 | unpublished |
| 237 | Borges, Sciare | RV Belgica | European Estuaries | 16 | 1998-05-25 | 1998-05-29 | Sciare et al., 2002 |
| 238 | Borges, Sciare | RV Belgica | European Estuaries | 9 | 1996-12-09 | 1996-12-11 | Sciare et al., 2002 |
| 239 | Borges, Sciare | RV Belgica | European Estuaries | 14 | 1996-07-08 | 1996-07-11 | Sciare et al., 2002 |
| 240 | Borges, Sciare | RV Belgica | European Estuaries | 7 | 1997-06-13 | 1997-06-15 | Sciare et al., 2002 |
| 241 | Borges, Sciare | Cote de la Manche | European Estuaries | 13 | 1997-09-01 | 1997-09-04 | Sciare et al., 2002 |
| 242 | Matrai, Dacey, DiTullio, Kieber, Kiene, Simo | Zodiac, launched from Palmer Station | Western Antarctic Peninsula | 188 | 2005-11-17 | 2006-02-27 | unpublished  **Herrmann 2012** |
| 243 | Johnson | Ronald H Brown | Eastern Equatorial Pacific | 1661 | 2008-10-20 | 2008-11-22 | unpublished |
| 244 | Johnson | R/V Atlantis | California coast | 851 | 2010-05-14 | 2010-06-07 | unpublished |
| 245 | Matrai | I/B Oden, ice camp by open lead | Arctic Ocean | 40 | 2004-08-04 | 2004-09-08 | **Tjernstrom et al 2012 Orellana et. al., 2011** |

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**ADDITIONAL STUDIES I PUT IN THE DATABASE (YOU ALREADY KNOW THEM)**

500 SABINA cruises Lizotte et al. 2012 Biogeochemistry

501 IPY 2007 Luce et al. 2011 JGR, Rempillo et al. 2011 JGR

502 IPY 2008 Luce et al. 2011 JGR, Rempillo et al. 2011 JGR

503-506 Matrai et al. 2007 (years 1993, 1998, 1999 and 2001)

507-508 SUMMER I and II cruises

555 MALASPINA

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