

MICHAEL J. DAGG

Professor

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Date of Birth: 7 April 1945

Place of Birth: Vancouver, British Columbia, Canada

Dual Citizenship: US and Canada

Educational Background:

<u>Degree</u>	<u>Conferring Institution</u>	<u>Field</u>	<u>Year</u>
B.Sc.	Mount Allison University New Brunswick, Canada	Biology	1966
M.Sc.	University of Victoria British Columbia, Canada	Marine Biology	1969
Ph.D.	University of Washington Washington, U.S.A.	Biological Oceanography	1975

Professional Background:

Brookhaven National Laboratory - Assistant Oceanographer	1975-1976
- Associate Oceanographer	1976-1979
- Oceanographer	1979-1981
Louisiana Universities Marine Consortium	
- Research Scientist	1981-1984
- Associate Scientist	1984-1987
- Professor	1987-
- Interim Director	1990-1991
- Interim Director	1995-1996
- Executive Director	1996-2002

Member:

American Society of Limnology and Oceanography
World Association of Copepodologists
American Geophysical Union

Major Research Grants:

- 1975-1981 **Food Chain Dynamics and Coastal Productivity**, (with several others) supported by the Department of Energy through block funding to Brookhaven National Laboratory.
- 1977-1980 **Zooplankton Grazing in the Peru Upwelling Region**, (P.I. with T. Whitledge and D. Judkins), supported by the National Science Foundation, as part of the CUEA (Coastal Upwelling and Ecosystem Analysis) Program.
- 1979-1982 **Feeding and Reproduction of Zooplankton in the Southeast Bering Sea**, supported by the National Science Foundation - Polar Programs, as part of the PROBES (Processes and Resources of the Bering Sea) Program.
- 1981-1984 **Feeding Responses of Marine Copepods to Patchy Food Environments**, supported by the National Science Foundation - Biological Oceanography.
- 1983-1986 **The Grazing Role of Zooplankton in the Subarctic Pacific Ocean, with Emphasis on the Large Copepods, Neocalanus plumchrus and N. cristatus**, (jointly with M. Landry), supported by the National Science Foundation - Biological Oceanography, as part of the SUPER (Subarctic Pacific Ecosystem Research) Program.
- 1984-1986 **Diel Variation in the Physiology and Behavior of Marine Zooplankton**, (with D. Checkley (PI) and M. Mullin), supported by the National Science Foundation - US/Japan Co-operative Science Program.
- 1984-1987 **Zooplankton Production and Energy Transfer in Fourleague Bay**, supported by NOAA Sea Grant.
- 1986-1988 **The Effects of Food Concentration and Food Quality on the Rate of Food Passage through Copepod Guts**, supported by the National Science Foundation - Biological Oceanography.
- 1986-1989 **Grazing by the Large Copepods Neocalanus plumchrus and N. cristatus on Phytoplankton and Microheterotrophs in the Subarctic Pacific Ocean**, supported by the National Science Foundation - Biological Oceanography, as part of the SUPER (Subarctic Pacific Ecosystem Research) Program.
- 1987-1992 **Development of a Research Emphasis in Oceanographic Processes on Continental Shelves Influenced by Large Rivers** (PI with 7 co-PIs), supported by the Louisiana State Board of Regents and the National Science Foundation EPSCOR Program.
- 1987-1989 **Enhancement of Coastal Productivity Associated with Processes in the Atchafalaya Bay Ecosystem. III. Zooplankton Production and Energy Transfer in Fourleague Bay**, supported by NOAA - Sea Grant.
- 1989-1991 **Enhancement of Coastal Productivity Associated with Processes in the Atchafalaya Bay Ecosystem. III. Zooplankton Feeding and Egg Production in Fourleague Bay**, supported by NOAA - Sea Grant.
- 1990-1991 **Large Scale Synoptic Sampling of Surface Chlorophyll Pigments and Suspended Sediments Associated with the Mississippi River Plume and the Louisiana**

- Coastal Shelf** (PI with co-PIs B. McKee, R. Miller and T. Leming), supported by NOAA - Coastal Ocean Program.
- 1990-1992 **Macrozooplankton Grazing in a Temperate Fjord**, supported by the National Science Foundation - Biological Oceanography.
- 1990-1996 **Zooplankton Grazing and the Fate of Fixed Carbon in Louisiana Coastal Waters** (jointly with P. Ortner), supported by NOAA - Coastal Ocean Program (NECOP).
- 1992-1994 **Assimilation and Transfer of Carbon in Oligotrophic and Eutrophic Coastal Water Columns** (PI with co-PIs S. Lohrenz, D. Redalje, R. Benner, and S. Strom), supported by DOE - Ocean Margins Program.
- 1994-1997 **Zooplankton Abundance and Grazing Potential in Florida Bay** (with P. Ortner) supported by NOAA, NMFS.
- 1994-1996 **Mechanisms of Dissolved Organic Carbon Cycling in an Ocean Margin.** (with S. Strom (PI) and R. Benner), supported by DOE - Ocean Margins Program.
- 1997-2000 **Does Copepod Grazing Control Large Phytoplankton in the HNLC Region of the Southern Ocean?**, supported by the National Science Foundation JGOFS Program.
- 1998-1999 **Modeling coastal sediment deposition in response to event scale forcing** (with J. Day), supported by LA Board of Regents, \$80,000
- 1997-1999 **Trophic Pathways in the Pelagic Environment of Florida Bay**, (with P. Ortner and G. Kleppel), supported by NOAA.
- 2000-2002 **Environmental Research in Coastal Louisiana**, (with B. McKee, N. Rabalais and others), supported by EPA and Louisiana Board of Regents (\$1,000,000 all investigators, \$350,000 Dagg component)
- 1999-2001 **River Ocean Interactions (Phase I): The Processing and Fates of Nutrients and Organic Carbon from the Mississippi River**, (with Brent McKee and 4 others), supported by ONR and Tulane University (\$722,000 all investigators).
- 2000 - 2002 **Wind events and benthic-pelagic coupling in western Florida Bay.** supported by NOAA - Coastal Ocean Program (\$113,600)
- 2001-2006 **Responses of the *Neocalanus* spp. - microplankton community to physical forcing in the coastal Gulf of Alaska.** (with S. Strom), supported by NSF - Biological Oceanography (\$590,460 Dagg component)
- 2001-2003 **A regional framework for interconnectivity of coastal ocean observing systems.** supported by NSF-SURA. (\$166,579 Dagg component)
- 2001-2002 **Transport and transformation of dissolved and particulate materials on continental shelves influenced by large rivers: Plume processes.** supported by Office of Naval Research (\$26,250).

- 2001-2004 **Effects of offshore oil and gas development: continuation of a printed and web-based current awareness bibliography.** Supported by Minerals Management Service (\$90,896)
- 2001-2002 **Picoplankton and optical characterization of surface waters in the northern Gulf of Mexico.** supported by NASA (\$29,197)
- 2001-2004 **Controls on the optical properties of coastal waters in the northern Gulf of Mexico.** (with B. McKee and others) supported by NASA (\$494,199 Dagg component).
- 2001-2003 **Retrospective modeling of food webs in the Mississippi River plume.** (with G. Jackson and P. Ortner). supported by NOAA (\$65,335 Dagg component)
- 2002-2004 **Human activities and a changing climate in Louisiana.** (PI: M. Dagg, \$1,000,000 all investigators) supported by EPA.
- 2002 – 2003 **Long-term Estuary Assessment Group (LEAG): Science in Service of Policy in the Mississippi River / Gulf of Mexico Estuary** (co-PI with several others,) supported by NOAA-COP through Tulane University's Center for Bioenvironmental Research. (Dagg component, \$121,935)
- 2004-2005 **Restructuring and Automating LUMCON's Environmental Monitoring System (LEMS)** supported by NOAA Coastal Services Center (\$48,150).
- 2003-2004 **Fabrication and deployment of an environmental station at the Mississippi River lighthouse (Southwest Pass).** Supported by NASA (\$20,030)
- 2003-2004 **Long-term Estuary Assessment Group (LEAG): Science in Service of Policy in the Mississippi River / Gulf of Mexico Estuary** (co-PI with several others,) supported by NOAA-COP through Tulane University's Center for Bioenvironmental Research. (Dagg component, \$134,696)
- 2006 – 2009 **Links between climate and planktonic food webs,** (P.I. with 4 others), supported by NSF Biological Oceanography (Dagg component \$117,000).
- 2006 – 2007 **Long-term Estuary Assessment Group (LEAG): Science in Service of Policy in the Mississippi River / Gulf of Mexico Estuary** (co-PI with several others,) supported by NOAA-COP through Tulane University's Center for Bioenvironmental Research. (Dagg component, \$91,563)

Teaching Grants:

- 1991-1992 Antarctic Young Scholars and Teachers, supported by the National Science Foundation - Education and Human Resources Division
- 1992-1994 Louisiana Young Scholars in Marine Science, supported by the National Science Foundation - Education and Human Resources Division

Teaching Experience:

Zooplankton Ecology	SUNY at Stony Brook	1977
Biological Oceanography	SUNY at Stony Brook	1978,1980
Marine Ecology (With D. Boesch and J. Fleeger)	LUMCON	1982
Marine Ecology (with J. Fleeger)	LUMCON	1983
Marine Ecology (with N. Rabalais)	LUMCON	1984
Biological Oceanography (with G. Turner and R. Shaw)	Louisiana State University	1986
Special Topics in Plankton Ecology (with Q. Dortch)	LUMCON	1987
Estuarine Ecology (with J. Day, R. Shaw and R. Twilley)	LUMCON	1989
Marine Ecology (with Q. Dortch and K. Brown)	LUMCON	1990
Zooplankton Ecology (with D. Biggs)	Bermuda Biological Station	1991
Biological Oceanography (with S. Lohrenz)	Bermuda Biological Station	1992
Plankton Processes (with J. Day)	Louisiana State University	1994
River – Ocean Interactions (with J. Day and B. McKee)	LUMCON	1999
Our Changing Coastal Ocean (with others)	LUMCON	2004

Cruise Experience:

British Columbia Coast (1 week)	RV Onar	1968
British Columbia Coast (1 week)	CNAV Endeavor	1968
British Columbia Coast (1 week)	CSS Parizeau	1969
North Pacific Ocean (6 weeks)	RV Thompson	1971
Columbia River plume (2 weeks)	RV Thompson	1971
New York Bight (4 weeks)	RV Atlantis II	1975
Peru Upwelling (3 weeks)	RV Melville	1977
New York Bight (3 weeks)	RV Knorr	1977
New York Bight/Georges Bank (4 weeks)	RV Atlantis II	1978
New York Bight/Georges Bank (4 weeks)	RV Atlantis II	1978
New York Bight (2 weeks)	RV Oceanus	1979
New York Bight (4 weeks)	RV Knorr	1980
Gulf of Mexico (2 weeks)	FRV Oregon II	1981
Gulf of Mexico (2 Weeks)	FRV Oregon II	1982
Sea of Japan (4 days)	Toyoshio Maru	1984
Gulf of Mexico (4 days)	RV Pelican	1985
Fourleague Bay, Gulf of Mexico (4 days)	RV Acadiana	1986
Dabob Bay, Puget Sound (4 Days)	RV Barnes	1986
Dabob Bay, Puget Sound (1 week)	RV Barnes	1986
Fourleague Bay, Gulf of Mexico (4 days)	RV Acadiana	1986
Fourleague Bay, Gulf of Mexico (4 days)	RV Acadiana	1987
Gulf of Mexico (2 weeks) Chief Scientist	RV Pelican	1987
Subarctic Pacific Ocean (4 weeks)	RV Thompson	1987
Gulf Of Mexico (9 days) Chief Scientist	RV Pelican	1988
Subarctic Pacific Ocean (4 weeks)	RV Thompson	1988
Subarctic Pacific Ocean (4 weeks)	RV Thompson	1988
Fourleague Bay, Gulf of Mexico (4 days)	RV Acadiana	1988
Fourleague Bay, Gulf of Mexico (4 days)	RV Acadiana	1989
Gulf of Mexico (6 days) Chief Scientist	RV Pelican	1989
Gulf of Mexico (8 days) Chief Scientist	RV Pelican	1989

Fourleague Bay, Gulf of Mexico (4 days)	RV Acadiana	1990
Fourleague Bay, Gulf of Mexico (4 days)	RV Acadiana	1990
Gulf of Mexico (7 days) Chief Scientist	RV Pelican	1990
Dabob Bay, Washington (3 weeks)	RV Barnes	1990
Gulf of Mexico (2 weeks)	RV Baldrige	1990
Fourleague Bay, Gulf of Mexico (4 days)	RV Acadiana	1990
Dabob Bay, Washington (4 weeks)	RV Barnes	1990
Dabob Bay, Washington (4 weeks)	RV Barnes	1991
Gulf of Mexico (8 days) Chief Scientist	RV Pelican	1991
Gulf of Mexico (12 days) Chief Scientist	RV Pelican	1992
Gulf of Mexico (9 days) Chief Scientist	RV Pelican	1992
Gulf of Mexico (10 days) Chief Scientist	RV Pelican	1993
Gulf of Mexico (9 days) Chief Scientist	RV Pelican	1993
Framvaren Fjord, Norway (6 days)	RV Braarud	1993
Gulf of Mexico (4 days) Chief Scientist	RV Pelican	2004

Administrative Experience:

Interim Executive Director of the Louisiana Universities Marine Consortium, August 1990 - September 1991: During this period, I was responsible for all aspects of the operation of LUMCON, an organization of the State's higher education system. The LUMCON budget was approximately \$4M and there were 68 full time employees. At the LUMCON Marine Center in Cocodrie, I was responsible for programs in Marine Research and Education and I supervised Operations and Finance, Library, Computer Operations, and Vessel Operations (LUMCON operates a UNOLS vessel, the *Pelican*). I also supervised the LUMCON Special Programs office in Baton Rouge.

Interim Executive Director of the Louisiana Universities Marine Consortium, September 1995 - September 1996.

Executive Director of the Louisiana Universities Marine Consortium, September 1996 – June 2002: LUMCON conducts research in marine science, has programs in university education and K-12/public outreach, operates a fleet of small boats and larger research vessels including the UNOLS vessel PELICAN, and operates a system of coastal monitoring stations. The Executive Director is responsible for all aspects of LUMCON operations. Please refer to the LUMCON web page for more information (<http://www.lumcon.edu>).

Some other Professional Activities:

Associate Editor to ESTUARIES, the journal of the Estuarine Research Federation, from 1989 - 1993

Editorial Advisory Board of CONTINENTAL SHELF RESEARCH, 1989 - present.

Adjunct faculty member at the State University of New York at Stony Brook (1976-1981), Louisiana State University (1981 to present), University of Louisiana in Lafayette (1985 - present), Nicholls State University (1996 to present), and Tulane University (2003 to present)

Oral presentations at almost all annual meetings of the American Society of Limnology and Oceanography since 1973, and numerous presentations at meetings of other societies in the marine sciences (e.g. American Geophysical Union, American Fisheries Society, Estuarine Research Federation, Gordon Conference in Biological Oceanography).

Chairman of the Technical Advisory Committee for the NECOP (Nutrient Enhanced Coastal

Ocean Productivity) program, a part of NOAA's Coastal Ocean Program, 1992-1995.

Member of the Technical Advisory Panel to the NOAA South Atlantic Bight Recruitment Experiment (SABRE) program, 1992-1996.

Member of the Technical Advisory Panel for the NOAA Bering Sea Fisheries Oceanography Coordinated Investigations (FOCI) program, 1992-1995.

Member of the Technical Advisory Panel for the NOAA Southeast Bering Sea Carrying Capacity (SEBSCC) program (1995-2001).

Member of the Committee on the Coastal Ocean, a standing committee of the Ocean Studies Board of the National Research Council. (now defunct) 1992-1994.

Member of the GLOBEC Steering Committee, 1997 - 2003

Member of the GLOBEC Executive Committee, 1998 - 2004

Institutional coordinator – Louisiana Alliance for Minority Participation (LAMP) program 1996-2001

Co-Editor (with T. C. Royer). 2002. Ecology of the Southeastern Bering Sea, Deep-Sea Res. II: 49(26)

Member of the North Pacific Marine Science Organization (PICES) committee on Biological Oceanography, 2001 – 2004

Chairman of the North Pacific Marine Science Organization (PICES) committee on Biological Oceanography, 2004 -

Member of the GLOBEC NorthEast Pacific (NEP) Executive Committee, 2003-2006

Research Professor (Adjunct appointment) – Department of Earth and Environmental Sciences, Tulane University, 2003 –

Member of the North Pacific Research Board (NPRB) Science Advisory Panel, 2005 -

Refereed Publications:

Dagg, M.J. and J.L. Littlepage. 1972. Relationships between growth and RNA, DNA, protein and dry weight in Artemia salina and Euchaeta elongata. Mar. Biol. 17: 162-170.

Dagg, M.J. 1974. Loss of prey body contents during feeding by an aquatic predator. Ecology 55: 903-906.

Dagg, M.J. 1976. Complete carbon and nitrogen budgets for the carnivorous amphipod, Calliopius laeviusculus (Kroyer). Int. Revue ges. Hydrobiol. 61: 297-357.

Dagg, M.J. 1977. Some effects of patchy food environments on copepods. Limnol. Oceanogr. 22: 99-107.

Dagg, M.J. 1978. Estimated, in situ, rates of egg production for the copepod Centropages typicus (Kroyer) in the New York Bight. J. Exp. Mar. Biol. Ecol. 34: 183-196.

Dagg, M.J., T. Cowles, T. Whitlege, S. Smith, S. Howe, and D. Judkins. 1980. Grazing and excretion by zooplankton in the Peru upwelling system during April, 1977. Deep Sea Res. 27: 43-59.

- Dagg, M.J. and D.W. Grill. 1980. Natural feeding rates of Centropages typicus females in the New York Bight. *Limnol. Oceanogr.* 25: 599-611.
- Dagg, M.J., J. Vidal, T.E. Whitley, R.L. Iverson, and J.J. Goering. 1982. The feeding, respiration, and excretion of zooplankton in the Bering Sea during the spring bloom. *Deep-Sea Res.* 29: 45-63.
- Dagg, M.J. and J.T. Turner. 1982. The impact of copepod grazing on the phytoplankton of Georges Bank and the New York Bight. *Can. J. Fish. Aquat. Sci.* 39: 979-990
- Dagg, M.J. and K.D. Wyman. 1983. Natural ingestion rates of the copepods Neocalanus plumchrus and N. cristatus, calculated from gut contents. *Mar. Ecol. Prog. Ser.* 13: 37-46.
- Dagg, M.J. 1983. A method for the determination of copepod feeding rates during short time intervals. *Mar. Biol.* 75: 63-67.
- Turner, J.T. and M.J. Dagg. 1983. Vertical distributions of continental shelf zooplankton in stratified and isothermal waters. *Biol. Oceanogr.* 3: 1-40.
- Dagg, M.J., M.E. Clarke, T. Nishiyama, and S.L. Smith. 1984. The production and standing stock of food items for larvae of the Alaska pollock, Theragra chalcogramma, in the Southeastern Bering Sea. *Mar. Ecol. Prog. Ser.* 19: 7-16.
- Dagg, M.J. 1985. The effects of food limitation on diel migratory behavior in marine zooplankton. *Arch. Hydrobiol. Beih. Ergebn. Limnol.* 21: 247-255.
- Dagg, M.J. and W.E. Walser, Jr. 1986. The effect of food concentration on fecal pellet size in marine copepods. *Limnol. Oceanogr.* 31: 1066-1071.
- Dagg, M.J. and W.E. Walser, Jr. 1987. Ingestion, gut passage, and egestion by the copepod Neocalanus plumchrus, in the laboratory and in the subarctic Pacific Ocean. *Limnol. Oceanogr.* 32: 178-188.
- Dagg, M.J., P.B. Ortner, and F. Al-Yamani. 1988. Winter-time distribution and abundance of copepod nauplii in the northern Gulf of Mexico. *Fish. Bull. (U.S.)* 86: 319-330.
- Dagg, M.J. 1988. Physical and biological responses to the passage of a winter storm in the coastal and inner shelf waters of the northern Gulf of Mexico. *Cont. Shelf Res.* 8: 167-178.
- Miller, C.B., and SUPER Group. 1988. Lower trophic level production dynamics in the Subarctic Pacific Ocean. *Bulletin Ocean Res. Inst. Univ. Tokyo.* 26: 1-26.
- Gifford, D.J. and M.J. Dagg. 1988. Feeding of the estuarine copepod Acartia tonsa Dana: carnivory vs. herbivory in natural microplankton assemblages. *Bull. Mar. Sci.* 43: 458-468.
- White, J.R. and M.J. Dagg. 1989. Effects of suspended sediments on egg production of the calanoid copepod Acartia tonsa. *Mar. Biol.* 102: 315-319.
- Dagg, M.J., B.W. Frost, and W.E. Walser, Jr. 1989. Copepod diel migration, feeding, and the vertical flux of pheopigments. *Limnol. Oceanogr.* 34: 1062-1071.
- Lohrenz, S., M. Dagg and T. Whitley. 1990. Enhanced primary production at the plume/oceanic interface of the Mississippi River. *Cont. Shelf Res.* 10: 639-664.

- Gifford, D.J. and M.J. Dagg. 1991. The microzooplankton-mesozooplankton link: consumption of planktonic Protozoa by the calanoid copepods Acartia tonsa Dana and Neocalanus plumchrus Marukawa. *Mar. Microb. Food Webs* 5: 161-177.
- Dagg, M.J. and T.E. Whitledge. 1991. Concentrations of copepod nauplii in the nutrient-rich plume of the Mississippi River. *Cont. Shelf Res.* 11: 1409-1423.
- Dagg, M., C. Grimes, S. Lohrenz, B. McKee, R. Twilley and W. Wiseman, Jr. 1991. Continental shelf food chains of the northern Gulf of Mexico. p. 67-106. in: Sherman, K., L. M. Alexander and B. D. Gold (eds). *Food chains, yields, models and management of large marine ecosystems*. Westview Press. Boulder, Colorado.
- Dagg, M. J. 1991. Neocalanus plumchrus: Life in the nutritionally-dilute subarctic Pacific Ocean and the phytoplankton-rich Bering Sea. *Bull. Plankton Soc., Japan, Spec. Vol.:* 217-225.
- Checkley, D.M. Jr., M.J. Dagg and S. Uye. 1992. Feeding, excretion, and egg production by individuals and populations of the marine planktonic copepods Acartia spp. and Centropages furcatus. *J. Plankton Res.* 14: 71-96.
- Checkley, D.M. Jr., S. Uye, M.J. Dagg, M.M. Mullin, M. Omori, T. Onbé and M. -y Zhu. 1992. Diel variation of the zooplankton and its environment at neritic stations in the Inland Sea of Japan and the northwest Gulf of Mexico. *J. Plankton Res.* 14: 1-40.
- Dagg, M. J. 1993. Sinking particles as a possible source of nutrition for the calanoid copepod Neocalanus cristatus in the subarctic Pacific Ocean. *Deep-Sea Res.* 40: 1431-1445.
- Dagg, M. J. 1993. Grazing by the copepod community does not control phytoplankton production in the subarctic Pacific Ocean. *Prog. Oceanogr.* 32: 163-183
- Day, J.W., R.R. Twilley, R.F. Shaw, C.J. Madden, B.A. McKee, M.J. Dagg, D.L. Childers, R.C. Rainie and L.J. Rouse. 1995. The influence of Atchafalaya River discharge on Fourleague Bay, Louisiana, USA. In: Dyer, K. (ed.) *Changes in fluxes in estuaries: implications from science to management*. Olsen and Olsen. pp.151-160.
- Dagg, M.J. 1995. Ingestion of phytoplankton by the micro- and meso-zooplankton communities in a productive subtropical estuary. *J. Plankton Res.* 17: 845-857.
- Dagg, M.J. 1995. Copepod grazing and the fate of phytoplankton in the northern Gulf of Mexico. *Cont. Shelf Res.* 15: 1303-1317.
- Ortner, P.B. and M.J. Dagg. 1995. Nutrient-Enhanced Coastal Ocean Productivity explored in the Gulf of Mexico. *EOS* 76 (10): 97, 109
- Dagg, M.J. 1995 A comment on "Variability due to feeding activity of individual copepods" (Paffenhofer 1994). *J. Plankton Res.* 17:903-905.
- Dagg, M.J. , E.P. Green, B.A. McKee and P.B. Ortner. 1996. Biological removal of fine grain lithogenic particles from a large river plume. *J. Mar. Res.* 54: 149-160.
- Dagg, M.J. and J.J. Govoni. 1996. Is ichthyoplankton predation an important source of copepod mortality in subtropical coastal waters? *Mar. Freshwater Res.* 47: 137-144.
- Green, E.P. and M.J. Dagg. 1997. Mesozooplankton associations with marine snow in the northern Gulf of Mexico. *J. Plankton Res.* 19: 435-447

- Dagg, M.J., B.W. Frost and J.A. Newton. 1997. Vertical migration and feeding behavior of *Calanus pacificus* females during a spring bloom in Dabob Bay, USA. *Limnol. Oceanogr.* 42: 974-980.
- Strom, S, R. Benner, S. Zeigler and M. Dagg. 1997. Sources of marine dissolved organic carbon: laboratory investigations of protozoa, copepods and phytoplankton. *Limnol. Oceanogr.* 42: 1364-1374.
- Lohrenz, S.E., G.L. Fahnenstiel, D.G. Redalje, G.A. Lang, X. Chen and M.J. Dagg. 1997. Variations in primary production of northern Gulf of Mexico continental shelf waters linked to nutrient inputs from the Mississippi River. *Mar. Ecol. Prog. Ser.* 155: 45-54
- Dagg, M.J., B.W. Frost and J.A. Newton. 1998. Diel vertical migration and feeding in adult female *Calanus pacificus*, *Metridia lucens* and *Pseudocalanus* sp. during a spring bloom in Dabob Bay, a fjord in Washington USA. *J. Mar. Systems* 15: 503-509
- Lohrenz, S.E., G.L. Fahnenstiel, D.G. Redalje, G.A. Lang, M.J. Dagg, T.E. Whitedge and Q. Dortch. 1999. Nutrients, irradiance, and mixing as factors regulating primary production in coastal waters impacted by the Mississippi River plume. *Cont. Shelf Res.* 19: 1113-1141.
- Urban-Rich, J., M. Dagg and J. Peterson. 2001. Copepod grazing on phytoplankton in the Pacific sector of the Antarctic Polar Front. *Deep Sea Res II* 48: 4223-4246.
- Weingartner, T.J., K. Coyle, B. Finney, R. Hopcroft, T.T. Whitedge, R. Brodeur, M. Dagg, E. Farley, D. Haidvogel, L. Haldorson, A. Herman, S. Hinckley, J. Napp, P. Stabeno, T. Kline, C. Lee, E. Lessard, T. Royer and S. Strom. 2002. The Northeast Pacific GLOBEC Program: Coastal Gulf of Alaska. *Oceanography* 15: 48-63
- Dagg, M.J., J. Urban-Rich and J.O. Peterson. 2003. The potential contribution of fecal pellets from large copepods to the flux of biogenic silica and particulate organic carbon in the Antarctic Polar Front region near 170°W. *Deep Sea Res II* 50:675-691.
- Dagg, M.J. and S.L. Brown. 2005. The potential contribution of fecal pellets from the larvacean *Oikopleura dioica* to vertical flux of carbon in a river dominated coastal margin. pp . 293-307 in G. Gorsky, M.J. Youngbluth and D. Deibel (eds.), *Response of Marine Ecosystems to Global Change: Ecological Impact of Appendicularians*. Gordon and Breach .
- Liu, H. and M. J. Dagg. 2003. Interactions between nutrients, phytoplankton growth, and grazing by micro- and meso-zooplankton in the plume of the Mississippi River. *Mar. Ecol. Prog. Ser.* 258: 31-42.
- Dagg, M.J. and G. A. Breed. 2003. Biological effects of Mississippi River nitrogen on the northern Gulf of Mexico - A review and synthesis. *J. Mar. Systems* 43: 133 – 152.
- Liu, H., M. Dagg, L. Campbell and J. Urban-Rich. 2004. Picophytoplankton and bacterioplankton in the Mississippi River plume and its adjacent waters. *Estuaries* 27: 147-156.
- Lawrence, D., M.J. Dagg, H. Liu., S.R. Cummings, P.B. Ortner, and C. Kelble. 2004. Wind events and benthic-pelagic coupling in a shallow subtropical bay in Florida, USA. *Mar. Ecol. Prog. Ser.* 266: 1-13.
- Dagg, M., R. Benner, S. Lohrenz and D. Lawrence. 2004. Transformation of dissolved and particulate materials on continental shelves influenced by large rivers: plume processes. *Cont. Shelf Res.* 24: 833-858.
- Yuan, J., R.L. Miller, R.T. Powell and M.J. Dagg. 2004. Storm induced injection of the Mississippi River plume into the open Gulf of Mexico. *Geophysical Research Letters* 31: L09312, doi:10.1029/2003GL019335.

- Liu, H., M.J. Dagg, C. Wu and K. Chiang. 2005. Mesozooplankton consumption of microplankton in the Mississippi River plume, with special emphasis on planktonic ciliates. *Mar. Ecol. Prog. Ser.* 286: 133-144.
- Dagg, M.J., T.S. Bianchi, G.A. Breed, W.-J. Cai, S. Duan, H. Liu, B.A. McKee, R.T. Powell and C.M. Stewart. 2005. Biogeochemical characteristics of the lower Mississippi River, USA, during June 2003. *Estuaries* 28: 664-674.
- Dagg, M.J., H. Liu and A.C. Thomas. 2006. Effects of mesoscale phytoplankton variability on the copepods *Neocalanus flemingeri* and *N. plumchrus* in the coastal Gulf of Alaska. *Deep-Sea Res I* 53: 321-332.
- Liu, H., M.J. Dagg and S. Strom. 2005. Grazing by the calanoid copepod *Neocalanus cristatus* on the microbial foodweb in the coastal Gulf of Alaska. *J. Plankton Res.* 27: 647-662.
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