

RESEARCH CHRONOLOGY

This is a chronological listing of scientific publications on research conducted at Flower Garden Banks National Marine Sanctuary, including significant articles published outside of the scientific literature. If you find that something is missing from this list, please email us at flowergarden@noaa.gov



1937

Shepard, F.P. Salt domes related to Mississippi submarine trough. *Geol. Soc. Am. Bull.* 48:1349-1361

1950

Carsey, J.B. 1950. Geology of Gulf coastal area and continental shelf. *AAPG Bull.* 34:361-385.

1953

Stetson, H.C. 1953. The sediments of the western Gulf of Mexico, Part 1 - The continental terrace of the western Gulf of Mexico: Its surface sediments, origin, and development. *Papers in Phys. Oceanogr. Meteorol. M.I.T./W.H.O.I.* 12(4):1-45.

1956

Parker, R.H. and J.R. Curray. 1956. Fauna and bathymetry of banks on continental shelf, northwestern Gulf of Mexico. *Bull. Am. Assoc. Petrol. Geol.* 40:2428-2439.

Nettleton, L.L. 1957. Gravity survey over a Gulf coast continental shelf mount. *Geophys.* 22:630.

1960

Curray, J.R. 1960. Sediments and history of Holocene transgression, continental shelf, northwest Gulf of Mexico. pp. 221-266 In: F.P. Shepard, F.B. Phleger and T.H. Van Andel (eds.) *Recent Sediments, Northwest Gulf of Mexico*. AAPG, Tulsa, OK.

1963

Pulley, T.E. 1963. Texas to the tropics. *Houston Geol. Soc. Bull.* 6:13-19.

1967

Pierce, W.E. 1967. Flower Garden Reef. *Tex. Parks and Wildlife Mag.*, Dec., pp. 6-9.

1969

Levert, C.F. and H.C. Ferguson, Jr. 1969. Geology of the Flower Garden Banks, northwest Gulf of Mexico. *Trans. Gulf Coast Assoc. Geological Soc.* 19:89-100.

1970

Lipka, D.A. The systematics and distribution of Enoploteuthidae and Cranchiidae (Cephalopoda: Oegopsida) from the Gulf of Mexico. M.Sc. Thesis, 1970, Texas A & M University (U.S.A.), 135 pages.

1971

Edwards, G.S. 1971. Geology of the West Flower Garden Bank. *Texas A&M Sea Grant Publ.*, TAMU-SG-71-215. 199 pp.

1972

Rezak, R. and G.S. Edwards. 1972. Carbonate sediments of the Gulf of Mexico. *Texas A&M Ocean. Stud.* 3:263-280.

1973

Cashman, C.W. 1973. Contributions to the ichthyofaunas of the West Flower Garden Reef and other reef sites in the Gulf of Mexico and western Caribbean. Ph.D. Dissertation, Texas A&M University, Dept. of Oceanography, College Station, TX. 247 pp.

Cropper, D.A. 1973. Living Cheilostome Bryozoa of West Flower Garden Bank, northwest Gulf of Mexico. M.S. Thesis, Texas A&M University, Dept. of Oceanography, College Station, TX.

Rezak, R. and W.R. Bryant. 1973. West Flower Garden Bank. *Trans. Gulf Coast Assoc. Geol. Soc.*, pp. 377-382.

Sidner, B.R. and C.W. Poag. 1973. Foraminiferal evidence of late quaternary sea level fluctuations from the West Flower Garden Bank. Texas A&M University Sea Grant College. TAMU-SG-73-213. 124 pp.

1974

Bright, T.J. and L.H. Pequegnat (eds.) 1974. Biota of the West Flower Garden Bank. Gulf Publishing Company, Book Division, Houston, Texas. 435 pp.

Burke, T.E. 1974. Echinoderms of the West Flower Garden bank. M.S. Thesis, Texas A&M University, Dept. of Oceanography, College Station, TX.

Ray, J.P. 1974. A study of the coral reef crustaceans (Decapoda and Stomatopoda) of two Gulf of Mexico reef systems: West Flower Garden, Texas and Isla de Lobos, Veracruz, Mexico. Ph.D. Dissertation, Texas A&M University, Dept. of Oceanography, College Station, TX.

Tresslar, R.C. 1974. The living benthonic foraminiferal fauna of the West Flower Garden Bank coral reef and biostrome. M.S. Thesis, Texas A&M University, Dept. of Oceanography, College Station, TX. 239 pp.

1975

Abbott, R.E. 1975. The faunal composition of the algal-sponge zone of the Flower Garden Banks, northwest Gulf of Mexico. M.S. Thesis, Texas A&M University, Dept. of Oceanography, College Station, TX. 205 pp.

Dubois, R. 1975. A comparison of the distribution of the Echinodermata of a coral community with that of a nearby rock outcrop on the Texas continental shelf. M.S. Thesis, Texas A&M University, Dept. of Oceanography, College Station, TX.

Etter, P.C and J.D. Cochrane. 1975. Water temperature on the Texas-Louisiana shelf. *Marine Advisory Bull.*, Texas A&M Sea Grant Publ., TAMU-SG-75-604.

Hogg, D.M. 1975. Formation, growth, structure, and distribution of calcareous algal nodules on the Flower Garden banks. M.S. Thesis, Dept. of Oceanography, Texas A&M Univ., College Station, TX. 59 pp.

Lipka, D.A. 1975. The systematics and zoogeography of cephalopods from the Gulf of Mexico. Ph.D. Dissertation, 1975, Texas A&M University, College Station, TX. 346 pages.

Teerling, J. 1975. A survey of sponges from the northwestern Gulf of Mexico. Ph.D. Dissertation, University of Southwestern Louisiana, Dept. of Biology, Lafayette, LA. 186 pp.

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Bernard, B.B., J.M. Brooks, and W.M. Sackett. 1976. Natural gas seepage in the Gulf of Mexico. *Earth Planet Sci. Lett.* 31:47-54.

- Bright, T.J. and R. Rezak. 1976. A biological and geological reconnaissance of selected topographical features on the Texas continental shelf. Final Rept. to U.S. Dept. of Interior, Bureau of Land Management. Contract No. 08550-CT5-4. 377 pp.
- Defenbaugh, R.E. 1976. A study of the benthic macroinvertebrates of the continental shelf of the northern Gulf of Mexico. Ph.D. Dissertation, Texas A&M University, Dept. of Oceanography, College Station, TX. 410 pp.
- Sonnier, F., J. Teerling and H.D. Hoese. 1976. Observations on the offshore reef and platform fish fauna of Louisiana. *Copeia* 1:105-111.
- Wills, J.B. 1976. Benthonic Polychaeta of the West Flower Garden Bank. M.S. Thesis, University of Houston, Dept. of Biology, Houston, TX. 181 pp.

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- Bright, T.J. 1977. Coral reefs, nepheloid layers, gas seeps and brine flows on hard-banks in the northwestern Gulf of Mexico. *Proc. Third Int. Coral Reef Symp.* 1:39-46.
- Bright, T.J. and R. Rezak. 1977. Reconnaissance of reefs and fishing banks of the Texas continental shelf. Ch. 6, pp. 113-150 In: R.A. Geyer (ed.) *Submersibles and Their Use in Oceanography*. Elsevier, New York.
- Jorgensen, B.B. 1977. Bacterial sulfate reduction within reduced microniches of oxidized marine sediments. *Mar. Biol.* 41:7-17.
- Marine Technical Consulting Services (MTCS). (T.J. Bright, R. Rezak, G. Boland, R. Abbott, and R. Putt: contributing authors). 1977. *Ecological Assessments of Drilling Activities: High Island East Addition (BlockA-384)*. Prepared for Union Oil of California by Marine Technical Consulting Services, Bryan, Texas. 185 p.
- McGrail, D.W. 1977. Shelf edge currents and sediment transport in the northwest Gulf of Mexico. *Trans. Am. Geophys. Union* 58:1160 (abstract).
- McGrail, D.W. and R. Rezak. 1977. Internal waves and the nepheloid layer on continental shelf in the Gulf of Mexico. *Trans. Gulf Coast Assoc. Geol. Soc.* 27:123-124.
- Rezak, R. 1977. West Flower Garden Bank, Gulf of Mexico. *Stud. Geol.* 4:27-35.

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- Bright, T.J. and R. Rezak. 1978. Northwestern Gulf of Mexico topographic features study. Final Rept. to U.S. Dept. of Interior, Bureau of Land Management. Contract No. AA550-CT7-15.
- Bright, T.J. and R. Rezak. 1978. South Texas Topographic Features Study. Draft Final Report to U.S. Dept. of Interior, Bureau of Land Management. Contract No. AA550-CT6-18.
- Giammona, C.P. 1978. Octocorals in the Gulf of Mexico - their taxonomy and distribution with remarks on their paleontology. Ph.D. Dissertation, Texas A&M University, Dept. of Oceanography, College Station, TX. 260 pp.
- McGrail, D.W. 1978. Boundary layer processes, mixed bottom layers, and turbid layers on continental shelves. *Trans. Am. Geophys. Union* 59:1110 (abstract).
- McGrail, D.W. and D.W. Huff. 1978. Shelf sediment and local flow phenomena: in situ observations. *Program AAPG-SEPM Ann. Conv.* p. 93.

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- Abbott, R.E. 1979. Ecological processes affecting the reef coral population at the East Flower Garden Bank, northwest Gulf of Mexico. Ph.D. Dissertation, Texas A&M Univ., Dept. of Oceanography, College Station, TX. 154 pp.
- Brooks, J.M., T.J. Bright, B. Bernard, and C. Schwab. 1979. Chemical aspects of a brine seep at the East Flower Garden Bank, northwestern Gulf of Mexico. *Limnol. Oceanogr.* 24(4):735-745.

Lauer, R.D. 1979. Sulfur deposition in the East Flower Gardens, Gulf of Mexico. M.S. Thesis, Florida State Univ. 33 pp.

Leuterman, A. 1979. The taxonomy and systematics of the Gymnolaemate and Stenolaemate Bryozoa of the northwest Gulf of Mexico. Ph.D. Dissertation, Texas A&M University, Dept. of Oceanography, College Station, TX.

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Bright, T.J., P.A. LaRock, R.D. Lauer, and J.M. Brooks. 1980a. A brine seep at the East Flower Garden Bank, northwestern Gulf of Mexico. *Int. Rev. Ges. Hydrobiol.* 65(4):535-549.

Bright, T.J., E.N. Powell, and R. Rezak. 1980b. Environmental effects of a natural brine seep at the East Flower Garden Bank, northwestern Gulf of Mexico. pp. 291-316 In: R.A. Geyer (ed.) *Marine Environmental Pollution*. Elsevier Publishing Co., Amsterdam.

Hudson, J.H. and D.M. Robbin. 1980. Effects of drilling mud on the growth rate of the reef-building coral, *Montastrea annularis*. pp. 455-470 In R.A. Geyer (ed.) *Marine Environmental Pollution*, Vol. 1: Hydrocarbons. Elsevier Scientific Publishing Company, New York. 591 pp.

Trippet, A. 1980. Maps showing geology of East and West Flower Garden Banks, Northwest Gulf of Mexico. USGS Miscellaneous Field Studies Map MF-1232, 1 sheet.

Viada, S.T. 1980. Species composition and population levels of scleractinean corals within the Diploria-Montastrea-Porites zone of the East Flower Garden Bank., northwest Gulf of Mexico. M.S. Thesis Dept. of Oceanography, Texas A&M University, College Station, TX. 96 pp

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Poag, C.W. and Tresslar, R.C. 1981. Living foraminifers of West Flower Garden Bank, northernmost coral reef in the Gulf of Mexico. *Micropaleontology*, 27(1), 31-70.

Powell, E.N. and T.J. Bright. 1981. A thalassiosira does exist: Gnathostomulid domination of the canyon community at the East Flower Garden Brine Seep. *Int. Rev. Ges. Hydrobiol.* 66(5):675-683.

Powell, E.N., T.J. Bright, A. Woods, S.R. Gittings, and J. Johansen. 1981. The East Flower Garden Brine Seep: implications for benthic community structure. Rep. to U.S. Dept. of Commerce, NOAA Office of Coastal Zone Management. Contract No. NA80-AA-H-CZ118. Texas A&M University, Dept. of Oceanography Tech. Rep. No. 81-6-T.

Rezak, R. and T.J. Bright (eds.). 1981a. Northern Gulf of Mexico topographic features study. (5 vol.). Final Report to the U.S. Department of Interior, Bureau of Land Management. Contract #AA551-CT8-35.

Rezak, R. and T.J. Bright. 1981b. Seafloor instability at the East Flower Garden Bank, northwest Gulf of Mexico. *Geo-Marine Lett.* 1(2):97-103.

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Eiseman, N.J. and S.M. Blair. 1982. New records and range extensions of deepwater algae from East Flower Garden Bank, northwestern Gulf of Mexico. *Contr. Mar. Sci.* 25:21-26.

Kraemer, G.P. 1982. Population levels and growth rates of the scleractinian corals within the Diploria-Montastrea-Porites zones of the East and West Flower Garden banks. M.S. Thesis, Texas A&M Univ., College Station, TX. 138pp.

McGrail, D.W. 1982. Anomalous flow on the outer continental shelf in the Gulf of Mexico and its effects on sediment transport. *Trans. Am. Geophys. Union* 63(3):65 (abstract).

McGrail, D.W., T.M. Cecil and F.B. Halper. 1982a. Stacking of nepheloid and boundary layers at the shelf edge in the Gulf of Mexico. *Trans. Am. Geophys. Union* 63:988 (abstract).

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McGrail, D.W., R. Rezak and T.J. Bright. 1982c. Environmental studies at the Flower Gardens and selected banks. Northwest Gulf of Mexico, 1979-1981. Final Rept. to Minerals Management Service, Contract AA851-CT0-25. NTIS Order No. PB83-101303.

Rezak R., McGrail D.W., Bright T.J. 1982. Environmental studies at the Flower Gardens and selected banks: Northwestern Gulf of Mexico, 1979-1981. Final Report, Northern Gulf of Mexico Topographic Features Study, Technical Report No. 82-7-T, Texas A&M University, College Geosciences, College Station TX, 315pp

Stafford, J.M. 1982. An evaluation of the carbonate cements and their diagenesis on selected banks, outer continental shelf, northern Gulf of Mexico. M.S. Thesis, Texas A&M University, Dept. of Oceanography, College Station, TX. 78pp.

Woods, A. 1982. Effects of a sulfide system produced by a natural brine seep on sandy-bottom community structure at the East Flower Garden Bank, northwest Gulf of Mexico. M.S. Thesis, Texas A&M University, Dept. of Oceanography, College Station, TX. 87pp.

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Boland, G.S., B.J. Gallaway, J.S. Baker, and G.S. Lewbel. 1983. Ecological effects on energy development on reef fish of the Flower Garden Banks. National Marine Fisheries, Galveston, Texas. Contract No. NA80-GA-C-00057. 466pp.

Bright, T.J. 1983. Flower Garden reefs - fragile beauty. Texas Parks and Wildlife 41(4):8-11.

Dodge, R.E. and J.C. Lang 1983. Environmental correlates of hermatypic coral (*Montastrea annularis*) growth on the East Flower Garden Bank, northwest Gulf of Mexico. Limnol. Oceanogr. 28(2):228-240.

Gittings, S.R. 1983. Hard-bottom macrofauna of the East Flower Garden Brine Seep: impact of a long term, point-source brine discharge. M.S. Thesis, Texas A&M University, Dept. of Oceanography, College Station, TX. 74pp.

Kennedy, E.A., W.E. Pequegnat, G.F. Hubbard, B.M. James, and C.M. Potter. 1983. Ecological survey of the macroinfaunal community near the Flower Garden Banks. Report by TerEco Corporation for National Marine Fisheries Service, SEFC Galveston Laboratory, Galveston, Texas. Contract No. NA80-GA-C-0075. 130pp + appendices.

McGrail, D.W. and M.R. Carnes. 1983. Shelf edge dynamics and the nepheloid layer. pp. 251-264 In: D.J. Stanley and G.T. Moore (eds.) Shelf Break: Critical Interface on Continental Margins. Soc. Econ. Paleontol. Mineral., Special Pub. No. 33.

Powell, E.N., T.J. Bright, A. Woods, and S.R. Gittings. 1983. Meiofauna and the thallobios in the East Flower Garden Brine Seep. Mar. Biol. 73:269-283.

Rezak, R., T.J. Bright, and D.W. McGrail (eds.). 1983. Reefs and banks of the northwestern Gulf of Mexico: their geological, biological, and physical dynamics. U.S. Dept. of Interior, Minerals Management Service, Gulf of Mexico OCS Regional Office, New Orleans, LA. Dept. of Oceanography, Texas A&M University, Tech. Rept. No. 83-1-T.

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Bright, T.J., G.P. Kraemer, G.A. Minnery and S.T. Viada. 1984. Hermatypes of the Flower Garden banks, northwestern Gulf of Mexico: a comparison to other western Atlantic reefs. Bull. Mar. Sci. 34(3):461-476.

Continental Shelf Associates, Inc. 1984. Impact assessment following an anchoring incident at the East Flower Garden Bank coral reef. Rept. to Mobil Producing Texas and New Mexico, Inc., Offshore Texas Division, The Woodlands, TX.

Gittings, S.R., T.J. Bright, and E.N. Powell. 1984. Hard-bottom macrofauna of the East Flower Garden Brine Seep: impact of a long-term, sulfurous brine discharge. Contr.Mar.Sci. 27:105-125.

Minnery, G.A. 1984. Distribution, growth rates and diagenesis of coralline algal structures on the Flower Garden Banks, northwestern Gulf of Mexico. Ph.D. Dissertation, Texas A&M University, Dept. of Oceanography, College Station, TX.

Zastrow, C.E. 1984. Age and growth of the red snapper, *Lutjanus campechanus*, and the vermilion snapper, *Rhomboplites aurorubens*, from the northwestern Gulf of Mexico. M.S. Thesis, Texas A&M University, Dept. of Oceanography, College Station, TX.

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- Continental Shelf Associates, Inc. 1985. Environmental monitoring program for Platform "A", Lease OCS-G-2759, High Island Area, South Extension, East Addition, Block A-389, near the East Flower Garden Bank. Rept. to Mobil Producing Texas and New Mexico, Inc., The Woodlands, TX. 353pp. + appendices.
- Baggett, L.S. 1985. Patterns of coral recruitment at the East Flower Garden bank. M.S. Thesis, Texas A&M University, Dept. of Oceanography, College Station, TX. 55pp.
- Baggett, L.S. and T.J. Bright. 1985. Coral recruitment at the East Flower Garden Reef (northwestern Gulf of Mexico). Proc. 5th Int. Coral Reef Cong. 4:379-384.
- Bright, T.J., D.W. McGrail, R. Rezak, G.S. Boland and A.R. Trippet. 1985. The Flower Gardens: A compendium of information. U.S. Dept. of Interior Minerals Management Service, Gulf of Mexico OCS Region Office, New Orleans, LA. OCS Studies/MMS 85-0024. 103pp.
- Dennis, G.D. 1985. Reef fish assemblages on hard banks in the northwestern Gulf of Mexico. M.S. Thesis, Texas A&M University, Dept. of Oceanography, College Station, TX. 184pp.
- Gittings, S.R. 1985. Notes on barnacles (Cirripedia: Thoracica) from the Gulf of Mexico. Gulf Research Reports 8(1):35-41.
- Jensen, P. 1985. The nematode fauna in the sulphide-rich brine seep and adjacent bottoms of the East Flower Garden, NW Gulf of Mexico. I. Chromadorida. Zool. Scr. 14:247-263.
- McGowan, M.F. 1985. Ichthyoplankton of the Flower Garden Banks, northwest Gulf of Mexico. Ph.D. Dissertation, University of Miami, Coral Gables, FL.
- Minnery, G.A., R. Rezak and T.J. Bright. 1985. Depth zonation and growth form of crustose coralline algae: Flower Garden Banks, northwestern Gulf of Mexico. pp. 237-246 In: D.F. Toomey and M.H. Niteck (eds.) Paleoalgology: Contemporary Research and Applications. Springer-Verlag, Berlin.
- Nelson, R.S. 1985. Growth, mortality, and condition of cottonwick in the Gulf of Mexico. Proc. Ann. Conf. Southeast Assoc. Fish Wildl. Agencies 39:34-44.
- Rezak, R., T.J. Bright, and D.W. McGrail. 1985. Reefs and Banks of the Northwestern Gulf of Mexico: Their Geological, Biological, and Physical Dynamics. John Wiley and Sons, New York, 259pp.

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- Gittings, S.R. and T.J. Bright. 1986. Assessment of coral recovery following an incident of anchoring damage at the East Flower Garden Bank, northwest Gulf of Mexico. Final Report to NOAA National Marine Sanctuaries Division. Contract No. NA85AA-H-CZ015. 45pp.
- Gittings, S.R., G.D. Dennis, and H.W. Harry. 1986. Annotated Guide to the Barnacles of the Northern Gulf of Mexico. Sea Grant College Program, Texas A&M University, College Station, Texas. TAMU-SG-86-402. 36pp.
- Jensen, P. 1986a. The nematode fauna in the sulphide-rich brine seep and adjacent bottoms of the East Flower Garden, NW Gulf of Mexico. I. Chromadorida. Zool. Scr. 14:247-263.
- Jensen, P. 1986b. The nematode fauna in the sulphide-rich brine seep and adjacent bottoms of the East Flower Garden, NW Gulf of Mexico. II. Monhysterida. Zool. Scr. 15:1-11.
- Jensen, P. 1986c. The nematode fauna in the sulphide-rich brine seep and adjacent bottoms of the East Flower Garden, NW Gulf of Mexico. III. Enoplida. Zool. Scr. 15(2):93-99.

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Gittings, S.R. and T.J. Bright. 1987. Mass mortality of *Diadema antillarum* at the Flower Garden banks, northwest Gulf of Mexico: effect on algae and coral cover. Benthic Ecology Meetings, Raleigh, North Carolina (abstract).

1988

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Brooks, J. M., et al. 1990. Salt, Seeps and Symbiosis in the Gulf of Mexico. A preliminary report of Deepwater Discoveries using DSV Alvin. *Eos*, vol.71, no.45, pp. 1772-1773.

Continental Shelf Associates, Inc. 1990. Environmental monitoring program for Exploratory Well #1, lease OCS-G-6264, High Island Area, South Extension, East Addition, Block A-401, near the West Flower Garden Bank. Rept. to Union Oil Company of California, Houston, TX. 35 pp. + appendices.

Gittings, S.R., G.S. Boland, B.S. Holland, and K.J.P. Deslarzes. 1990. Ecological monitoring program at the Flower Garden Banks. pp. 203-206 In: Minerals Management Service. *Proc.: Tenth Annual Information Transfer Meeting*. U.S. Dept. of Interior. Minerals Management Service. New Orleans, LA. MMS Contract No. 14-35-0001-30499. OCS Study/MMS 90-0027. 441pp.

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- Bright, T.J., S.R. Gittings, and R. Zingula. 1991. Occurrence of Atlantic reef corals on offshore platforms in the northwestern Gulf of Mexico. NE Gulf Sci. 12(1):55-60.
- Deslarzes, Kenneth J.P., P.N. Boothe, and S.R. Gittings. 1991. Incorporation of trace elements in the coral *Montastrea annularis* at the West Flower Garden Bank, NW Gulf of Mexico. Proc. MMS ITM 1991.
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- Gittings, S.R., Kenneth J.P. Deslarzes, and D.K. Hagman. 1991. Long-term Monitoring on the Flower Garden Banks: Preliminary Results. MMS ITM Summary.
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- U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration. 1991. Final Environmental Impact Statement and Management Plan for the Proposed Flower Garden Banks National Marine Sanctuary. Sanctuaries and Reserves Division, Office of Ocean and Coastal Resource Management, 1825 Connecticut Ave., Suite 714, Washington, D.C. 20235. 145pp.

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- Gittings, S.R. 1992. Historic data on Gulf of Mexico reef shows compatibility with drilling, production. Offshore . (May 1992). pp. 33-36.
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