

Biographical Sketch of
A. SATHY NAIDU

Education:

Ph.D.1968. Geology. (Thesis: Deltaic and Marine Sediments). Andhra University, Waltair, India.

M.Sc.1960. Geology.(Special subjects: Marine and Nuclear Geology). Andhra University, Waltair. India.

B.Sc. (Hons).1959. Geology. Andhra University, Waltair, India.

Foreign Board of Examiners and the Adjudication Committee for the Ph.D. Degree

Professor Francis P. Shepard (Chairman, Scripps Inst.), Professor K. O. Emery (Woods Hole), and Dr. Charles C. Bates (U.S. Navy).

Professional Memberships:

American Geophysical Union (Life Member)

Geological Society of India (Elected Fellow)

Arctic Institute of North America (Elected Fellow)

Ocean Society of India (Life Member)

Fellowships and Government Scholarships:

Senior Research Fellow - University Grants Commission of India - 1966–1969

Senior Research Fellow - Research and Development Organization, Terrain Evaluation Cell, Ministry of Defense, Government of India, New Delhi 1965–1966

Senior Research Fellow - Council of Scientific and Industrial Research, Government of India - 1963–1965

Junior Research Fellow - Council of Scientific and Industrial Research, Government of India - 1961–1963

Job Experience:

Professor Emeritus in Marine Science, Univ. of Alaska, 2004-present

Professor, Institute of Marine Science, University of Alaska, 1986–2004.

Elected Life Member, Clare Hall, University of Cambridge, England. 1993.

Visiting Fellow, Clare Hall and Godwin Laboratory, University of Cambridge, England, April–June 1993 (Sabbatical leave).

Visiting Professor, Marine Science Institute, University of Texas, Port Aransas, Texas, October–December 1992 (Sabbatical leave).

Associate Professor, Institute of Marine Science, University of Alaska, 1980–1986.

Visiting Professor, Physical Research Laboratory, Ahmedabad, India, June–August 1983 (Sabbatical leave).

Visiting Research Scientist, Lamont-Doherty Geological Observatory of Columbia University, Palisades, New York, October 1983–January 1984 (Sabbatical leave).

Assistant Professor, Institute of Marine Science, University of Alaska, 1973–1980. Tenured faculty position awarded in March 1976.

Marine Geochemist (equivalent of Assistant Professor rank), Institute of Marine Science, University of Alaska, 1973–1976.

Assistant Professor (Acting), Institute of Marine Science, University of Alaska, 1969–1973.
Demonstrator in Geology, Andhra University, Waltair, India, 1961.

Special Interests:

Lithological and chemical facies changes in modern sediments of the Arctic and Tropical deltas and the subarctic fjords. Holocene sedimentation, Pleistocene history of the Arctic Ocean and Bering Basin. clay mineralogy, carbon, nitrogen and oxygen isotopes, alongshore sediment transport, trace element geochemistry and contaminant monitoring in arctic marine sediments. Arctic benthic ecosystem. Mangrove ecosystem.

Funded Research Projects

Alaska Monitoring and Assessment Program Survey of Estuaries within the National Petroleum Reserve – Alaska. CMI/BOEM. Co-PI. 2015-2017.

The Geochronology and the Historical Changes in Trace Metals and Isotopes of Carbon and Nitrogen in Sediments of Chukchi Sea, Arctic Alaska. ConocoPhillips, Inc. Anchorage. Principal Investigator, 2008-2011.

Granulometry, Carbon and Nitrogen Isotopes and Chlorophyll a in Bering Sea Sediments. CIFAR/NOAA-National Marine Fisheries Service, Seattle. Principal Investigator, 2008-2010.

Advanced Monitoring Initiative (AMI): Arctic Coastal Integrated and Comprehensive Data Mining and Assessment Project. EPA/AK DEC, Co-PI, 2008-2009.

Synthesis of Time-interval Changes in Trace Metals and Hydrocarbons in Nearshore Sediments of the Alaskan Beaufort Sea: A Statistical Analysis. Principal Investigator 2006-2009.

Assessment of the Direction and Rate of Alongshore Transport of Sand and Gravel in Petroleum Development Region of the North Slope of Alaska. MMS/CMI. Principal Investigator. 2005- 2009.

Marine Placer Potential: Cape Prince of Wales Area, Bering Strait, Alaska. MMS. Co-Principal Investigator. 2005-2008.

GIS-based Assessment of Platinum Placers in Goodnews Bay, Alaska. Minerals Management Service, USDOJ, Co-Principal Investigator. 2004–2007.

Reserve Definition, and Resource Assessment of Platinum Placers in Goodnews Bay Region, Alaska. Minerals Management Service, Co-Principal Investigator. 2005–2007.

Environmentatl Research Labs. Cooperative Institutes. TWEAK Element II –Tsunami Warning and Environmental Observatory in Alaska – Year 3. CIFAR/NOAA. Co-Principal Investigator. 2004-2005.

Estimation of gravel resource potential off Kivalina, Southeast Chukchi Sea continental shelf. MMS, Co-Principal Investigator. 2004-2005.

Grain size distribution and organic carbon concentrations in TRAWLEX/2002 sediments, Eastern Bering Sea. NOAA/National Marine Fisheries Service Alaska Fisheries Science Center. Principal Investigator. 2003-2004.

Trace metals and hydrocarbons in sediments of the Beaufort Lagoon, North-east Arctic Alaska, exposed to long-term natural oil seepage, recent anthropogenic activities and Pristine conditions. Principal Investigator. 2003-2005.

Estimation of Gravel Resource Potential of Southeast Chukchi Sea Continental Shelf Off Shismaref, North Seaward Peninsula, Alaska. MMS, Co-Principal Investigator. 2001-2004.

Trace Metals and Hydrocarbons in Sediments of Elson Lagoon (Barrow, Northwest Arctic Alaska) As Related to Prudhoe Bay Industrial Region. MMS/CMI. Principal Investigator. 2001-2004.

Alaska native undergraduate and minority student intern participation in the NOAA Ocean Exploration. NOAA. Co-Principal Investigator. 2002.

Granulometry and organic carbon contents of sediments. NMFS Alaska Fisheries Science Center. Principal Investigator. 2002-2003.

Field operational support to collect sediment samples from Elson Lagoon, Alaska. NOAA/AMD, Principal Investigator. 1999.

Concentrations of mercury and its food chain and geochemical pathways to selected commercial and subsistence organisms of Eastern Bering Sea. North Pacific Marine Research Program/USGS/UAF, University of Alaska Fairbanks, Principal Investigator. 1999–2001.

Historical changes in trace metal and hydrocarbon contaminants on the Inner Shelf, Beaufort Sea: Prior and subsequent to petroleum-related developments. MMS/CMI. Principal Investigator. 1997–1999.

Granulometry of sediments from a nearshore region in the vicinity of Red Dog port facility, southeast Chukchi Sea coast. RWJ Consulting, Chugiak, Alaska. Principal Investigator. 1998.

Assessment of heavy metal contamination in the Chukchi Sea. Cooperative Inst. for Arctic Research (CIFAR), University of Alaska Fairbanks. Principal Investigator, 1995–1997.

Benthos monitoring at the site of dredge spoil disposal adjacent to the SERVS Dock Site, Port Valdez, Alaska. Alyeska Pipeline Service Co. Senior Scientist. 1993–1994.

Grain-size distribution and mineralogy of suspended and bottom sediments of Knik Arm, Upper Cook Inlet, Alaska. U. S. Army Corp. of Engineers contract. Principal Investigator, 1994.

Grain-size distribution of suspended particles in water samples, Upper Cook Inlet. U.S. Army Corps of Engineers contract. Principal Investigator, 1992.

Bedrock geology under the ice sheet of Greenland. UAF/Polar Ice Coring Office contract. Principal Investigator, 1991.

Macoma balthica monitoring study at Dayville Flats, Port Valdez. Alyeska Pipeline Service Co. contract. Principal Investigator, 1989–1992.

The effects of particle mixing and sediment accumulation on the vertical distribution of the benthos of the southeastern Chukchi Sea. National Undersea Research Program (NURP) contract. Co-Principal Investigator, 1989–1990.

Kotzebue Sound/Southeast Hope Basin Habitat Utilization and Ecological Characterization. NOAA Contract 86-ABH-00013. Co-Principal Investigator, 1986–1991.

The Chukchi Sea Continental Shelf: Benthos-Environmental Interactions. NOAA Contract 86-ABH-00013. Co-Principal Investigator, 1986–1990.

Characterization of oil and gas reservoir heterogeneity. Dept. of Energy Contract. Senior Scientist, 1989–1990.

Norton Sound Environmental Study. U.S. Dept. of Interior, Minerals Management Service, Alaska OCS region contract. Co-Principal Investigator, 1988–1989.

Transport of carbon and nutrients in lakes and estuaries. International Workshop, sponsored and funded by SCOPE/United Nations Environmental Programme, Hamburg, Germany. Chair and Organizer. 1986.

Reconnaissance survey of gold and platinum placer deposits in Goodnews Bay Area, southeast Bering Sea, Alaska. U.S. Bureau of Mines contract, 1985.

Univariate Maps of Sediment Textures of the Bering-Chukchi-Beaufort Seas, Alaska. Strategic Assessment Branch, NOAA Contract 32324-239220. Principal Investigator, 1985.

Reconnaissance survey of heavy metals in RARE II area of Prince William Sound, South Alaska: Coastal Marine Geochemical Studies, U.S. Bureau of Mines Contract 80221062. Principal Investigator, 1982–1983.

Heavy metals distribution in sediments of Prince William Sound: geochemical criteria for metal prospecting in the adjacent hinterland. Consultant to the U.S. Bureau of Mines (Juneau) Principal Investigator. 1980–1981.

Environmental Studies in Port Valdez. Alyeska Pipeline Service Company, 1979–1983 (3-year study), Contract TAPS/41, Task Order 12. Co-Principal Investigator.

Sources, transport pathways, and depositional sites and dynamics of sediments in the lagoon and adjacent shallow marine region, northern Arctic Alaska. NOAA-BLM-OCS Contract (R.U. #529). Principal Investigator, 1977–1982.

Fate of drilling mud in the Prudhoe Bay area. Consulting rendered to Northern Technical Services (Anchorage) under subcontract from SOHIO Company.

Geochemistry of lagoon sediments north Arctic Alaska. U.S. Geological Survey Support of a Graduate Stipend ship specifically under Naidu's supervision.

Composition, stability, and origin of the barrier-island-lagoon complex, north arctic Alaska. NOAA-BLM-OCS contract (R.U. #529). Principal Investigator, 1977.

Natural distribution and dynamics of trace metals and potential perturbations caused by oil-related activity in coastal and shelf areas of Alaska. NOAA-BLM-OCS Contract (R.U. #162). Senior Associate Investigator.

Clay minerals and chemical stratigraphy of unconsolidated sediments, Beaufort Sea, Arctic Ocean. U.S. Geological Survey Contract No. 14-08-0001-14827. Principal Investigator.

The environmental assessment of Prudhoe Bay, North Slope of Alaska, Atlantic Richfield Company contract. Co-Principal Investigator.

Background marine studies in the Palma Bay - Dixon Harbor Region. U.S. National Park Service contract. Co-Principal Investigator.

The sediment environment of Port Valdez and Galena Bay, Alaska and the effect of oil on this ecosystem. Environmental Protection Agency Contract No. R800944 (18080 HFP). Associate Investigator.

Texture, mineralogy and chemistry of Arctic Ocean sediment. U.S. Geological Survey Contract No. 14-08-0001-12559. Principal Investigator.

Environmental assessment of an Arctic estuarine complex. National Oceanic and Atmospheric Administration - Sea Grant No. 36109. Co-Principal Investigator.

Baseline water quality study of the Alaskan Arctic estuarine environments. Environmental Protection Agency Contract No. 16100 EOM. Co-Principal Investigator.

Clay-inorganic and organic-inorganic associations in aquatic environments. Atomic Energy Commission Contract (At-04-3)-310 PA No. 3. Senior Associate Investigator.

Professional Consulting:

Private consultant for ARCO, NORTEC, Harding Lawson Associates, Department of Transportation (State of Alaska), U.S. Bureau of Mines, North Slope Borough (Barrow), RWJ, Consultants (Anchorage), and RCAC (Valdez).

Teaching Experience:

The following formal graduate-level courses have been taught:

- i. Paleooceanography/Paleoclimate (MSL 692). 1998.
- ii. Fluvial Dynamics (MSL 697). 1998.

- iii. Geological Oceanography (OCN 630), Graduate Program in Marine Science and Limnology, University of Alaska Fairbanks. 1979–1990, 1995, present (guest lecture)
- iv. Coastal Sedimentary Processes (OCN 697), Dept. Marine Science and Limnology, University of Alaska. Fall 1984.
- v. Introduction to Clay Mineralogy, Physical Research Laboratory, Ahmedabad (India), 1983.
- vi. Clay Mineralogy (OCN 697 AF); Spring 1981, Fall 1984, Fall 1996 and 2000.
- vii. Deltaic sedimentation (OCN 694-2); Oceanography and Ocean Engineering Program, University of Alaska. Spring 1975.
- viii. Topics in Oceanographic Research, MSL 411. For the past several years.
- ix. Applied Oceanography (or earlier listed as Shipboard Techniques), MSL 625, last 13 years.
- x. Laboratory Asst. Lecturer (Demonstrator) for Advanced Petrology. Department of Geology, Andhra University, Waltair (India), 1961.

Graduate Student Advising:

Served on thesis advisory committees of several M.S. and Ph.D. students. Major Professor for five graduate students, and mentor for three Post-docs.

Professional Activities and Recognition:

Member, Editorial Board of : The Scientific Pages of Soil and Water Science, Nevada, USA

Have been invited as expert to attend several national/international workshops during the last 30 years (with expenses paid). Too numerous to list here. For example one of the recent invitations was by the Arctic Monitoring and Assessment Program (AMAP) Secretariat to attend the workshop on “A Scientific Synthesis and Assessment of the Arctic Carbon Cycle”, Seattle, April, 2007.

Member, Board of the Alaska Quaternary Center, University of Alaska Fairbanks, 2002-2011
Chief Marshal, Commencement, University of Alaska Fairbanks. 2004.

Referee (one of 10 Distinguished Scientists) for assessing nominations of 1999 S.S. Bhatnagar Prize. Selected by CSIR/HRDG, Govt. India. 1999.

Elected, Fellow of the Arctic Institute of North America. 2001.

Co-Editor, Marine Geology, special issue on the “Aspects of the Geology, Geophysics, and Paleooceanography of the Indian Ocean.” 1998.

Peer Reviewer and Foreign Advisor, Earth Sciences Program, National Institute of Oceanography, Government of India, Goa. 1997.

Member, Advisory Committee, International Symposium on Geology and Geophysics of the Indian Ocean (GIO), April 1996. Appointed by Director, National Inst. of Oceanography of India.

Coordinator, U.S. Office of Naval Research, of delegates to the International Symposium on Geology and Geophysics of the Indian Ocean (GIO), April 1996.

Presided Ocean Sciences session on “Paleooceanography and Climate Change,” American Geophysical Union 1993 Fall Meeting, San Francisco.

Elected by the Governing Body a Life Member of Clare Hall, University of Cambridge, England, 1993.

Convener of the “Arctic Marine Geology” general session at the International Conference on Arctic Margins, Anchorage, 1992.

Chaired the session on *Habitat Alteration* at the MMS, Dept. Interior and MBC Applied Env. Sciences (California) workshop to *Design Baseline and Monitoring Studies for the OCS Mining Program, Norton Sound, Alaska*, Anchorage, 1989.

Chaired the sessions on *Marginal Seas* at the 3rd SCOPE/UNEP Intl. Workshop on *Carbon and Nutrient Transport in Lakes and Estuaries*, Irkutsk, Soviet Union, 1988.

Chief Scientist, leading delegates of scientists from the United States to Providenya, U.S.S.R., on goodwill port call onboard NOAA ship *Surveyor*, 1987 (First such trip after the cold war).

Chaired and organized the first SCOPE/UNEP International Workshop on *Carbon and Nutrient Transport in Lakes and Estuaries*, at the University of Alaska, Fairbanks, in August 1986; served as co-editor of the workshop proceedings.

Chief Scientist, IMS-French cooperative research in the Arctic. 1985.

SCOPE/UNEP Travel Grant, an invitation to present papers at the Fourth International Workshop on *Transport of Carbon and Minerals in Major World Rivers*, Tianjin (Mainland China), 1985. Chaired the session on *Rivers and Estuaries of Northern Hemisphere*.

Invited to contribute a chapter on the 'state-of-the-art' Synthesis on Arctic Ocean sediments in the volume *The Arctic Seas: Climatology, Oceanography and Geology and Biology* (Editor: Y. Herman, Van Nostrand Reinhold, New York).

SCOPE/UNEP Travel Grant, and invitation to present papers at the Third International Workshop on *Transport of Carbon and Minerals in Major World Rivers*, Caracas (Venezuela), 1984. Prof. E. T. Degen (Coordinator).

National Science Foundation-American Geophysical Union Travel Grant to attend 1983 IUGG-IAPSO meetings, Hamburg.

Corresponding Member, U.S. Geodynamics Committee.

Invited to present seminars at the following institutes in 1983–84: Inst. of hydroengineering of the Polish Academy of Sciences (Gdansk); California Inst. of Technology (Pasadena); and University of Lille (France).

Member, Steering Committee, University of Alaska/NOAA Memorandum of Understanding.

One of the Invited U.S. Delegates to present a paper at the 1983 IUGG-IAPSO meetings, Hamburg.

Member, Scientific Advisory Committee for the North Slope Borough, Alaska. Active.

Advisor, State of Alaska Department of Transportation on the Planning and Designing of a deep water port and small boat harbor for the City of Nome, 1981.

National Science Foundation - Clay Mineral Society Travel grant to attend the Seventh Annual Clay Conference, Bologna-Pavia (Italy), September 1981.

Invited by Prof. Roger Revelle (Coordinator) to join the U.S. Delegate to participate in the Indo-U.S. Workshop on Oceanography. This workshop was sponsored by U.S.N.S.F. and the Dept. of Science Technology (Govt. of India), and was held in Goa India, in November 1978.

Invited by the National Oceanic and Atmospheric Administration and the Bureau of Land Management to the OCSEAP Synthesis meetings (Barrow) in 1976 and 1977. Contributor to the Beaufort Sea Synthesis Reports.

The Nedra Publisher, Moscow selected my Chapter on sediments of the Colville Delta in the volume *Deltas, Models for Subsurface Exploration* for translation into Russian and publication of 3000 copies of it.

Scientific Advisor to trainees deputed by the Department of Geology, Andhra University, Waltair, India to the Institute of Marine Science, University of Alaska, through United Nations Developmental Programme (Paris) Office.

Elected Member for the University of Alaska Assembly by the Faculty of the Division of Environmental Sciences, 1983.

Civic and University Activities:

Member, Scholarship Committee, Rotary District 5010 (largest Rotary District, including Alaska, Eastern Russia and parts of Yukon, Canada). 2007

Chair, Selection Committee for the Usibelli Awards for distinction in Teaching, Research and Public Service respectively, University of Alaska Fairbanks, 2005, 2006.

Member, Board of Directors, Alaska Quaternary Center, University of Alaska Fairbanks, 2000-2002, 2006-2010.

Faculty Promotion/Tenure Committee, University of Alaska Fairbanks, 1999–2002.

President (1994–1995); Chair, Scholarship Selection Committee (for UAF undergraduate students), College Rotary Club, Fairbanks. Ten years.

Member, Advisory Committee, Polar Ice Coring Office, University of Alaska Fairbanks, 1989–1995.

Member, Board of Directors, Sigma Xi/Alaska Club (Fairbanks), 1988–1990; 2007-present.

Member, Board of Directors, Alaska Quaternary Center, University of Alaska Fairbanks, 1988–1991.

Member, Executive Committee, Institute of Marine Science, 1987–1988.

Member of the following Institute Committees: Library, Scholarship, Safety, Microprobe User's (University-wide), and SFOS Long Range Plan.

Member, Advisory Committee, American-Asian Community, Alaska Chapter, 1979–1983.

Member, North Slope Borough Science Advisory Committee, 1981–present.

Co-Chairman, Advisory Committee of Bilingual Program of the Fairbanks North Star Borough School District, 1980.

Publications:

Thesis

Naidu, A. S. 1968. Some aspects of texture, mineralogy and geochemistry of modern deltaic sediments of the Godavari River, India. Ph.D. Dissertation. Andhra Univ., India.

Naidu, A. S. 1960. Geology of the Birmitrapur area with special reference to the origin of the limestone and dolomite deposits. M.Sc.Thesis. Andhra Univ., India.

Co-Editor of Volumes

Degens, E. T., S. Kempe and A. S. Naidu. 1988. Transport of Carbon and Minerals in Major World Rivers, Lakes and Estuaries. SCOPE/UNEP Sonderband. University of Hamburg, Germany, 422 pp.

Naidu, A. S. and C. M. Rao. 1999. Aspects of the Geology, Geophysics, and Paleoceanography of the Indian Ocean. Special Issue, *Marine Geology*, Elsevier Sciences, Amsterdam, The Netherlands

Journals/Book Chapters

Dasher, D.H., Lomax, T., Bethe, A, Hoberg, M., Naidu, S., Jewett, S. Effects of a storm surge on sediment trace metal concentrations in a shallow Arctic lagoon as observed in comparisons of 1977 and 2014 sampling data. Manuscript in review by

- Naidu, S. A., Kathiresan, K., Simonson, J. H., Blanchard, A. L., Post, R. M., Sanders, C. J., Subramonium, T., Naidu, R.A. and R. Naredran. 2016. Distribution and sources of organic carbon and nitrogen of mangrove and saltmarsh sediments: a case study at Pichavaram ecosystem, Tamil Nadu, India. Submitted to journal for publication; under peer review.
- Barker, J. C., J. J. Kelley and S. Naidu. 2015. Heavy mineral concentration in a marine sediment transport conduit, Bering Strait, Alaska. Division of Geol. and Geophy. Surveys, State of Alaska Dept of Natural Resources, Fairbanks, AK. 33 p.
- Tenorio, V.O., Bandopadhyay, S., Misra, D., Naidu, S., and Kelley, J. 2015. Development of a methodology combining clustering and conditional simulation for the definition of underwater sampling models. In: S. Bandopadhyay (Ed.), Application of Computers and operation Research in the Mineral Industry. Proc. 37th International Symposium, APCOM 2015. Fairbanks, Univ. Alaska. 872-888.
- Tenorio, V.O., Bandopadhyay, S., Misra, D., Naidu, S., and Kelley, J. 2015. Support vector machines applied for resource estimation of underwater glacier-type platinum deposits. In: S. Bandopadhyay (Ed.), Application of Computers and operation Research in the Mineral Industry. Proc. 37th International Symposium, APCOM 2015. Fairbanks, Univ. Alaska. 889-902.
- Venkatesan, M. I., Naidu, A. S., Blanchard, A. L., Misra, D. and Kelley, J. J. 2013. Historical changes in trace metals and hydrocarbons in nearshore sediments, Alaskan Beaufort Sea, prior and subsequent to petroleum-related industrial development. Part II. Hydrocarbons. *Mar. Pollut., Bull.*, 77(1-2):147-164.
- Yeung, C., Yang, M-S, Jewett, S. C. and Naidu, A. S. 2013. Polychaete assemblages as surrogate for prey availability in assessing southeastern Bering Sea habitat. *J. Sea Research*, 76:211-221.
- Naidu, A. S., Blanchard, A. L., Misra, D., Trefrey, J. H., Dasher, D. H., Kelley, J. J., and Venkatesan, M. I., 2012. Historical changes in trace metals and hydrocarbons in nearshore sediments, Alaskan Beaufort Sea, prior and subsequent to petroleum-related industrial development. Part I. Trace metals. *Mar. Pollut. Bull.*, 64:2177-2189.
- Ortiz, J. D., D. Nof, L. Polyak, G. St-Onge, A. Lise-Pronovost, S. Naidu, D. Darby and S. Brachfeld. 2012. The Late Quaternary flow through the Bering Strait has been forced by the Southern Ocean winds. *J. Physical Oceanography*, 42:2014-2029.
- Oommen, T., D. Misra, A. Prakash, S. Bandopadhyay, S. A. Naidu and J. J. Kelley. 2010. Multiple regressive pattern recognition technique: an adapted approach for improved georesource estimation. *Natural Resource Research*. In press.
- Sanders, C. J., Smoak, J. M., Naidu, A. S., Sanders, L. M. and Patchineelam, S. R. 2010. Organic carbon burial in a mangrove forest, margin and intertidal mud flat. *Estuarine, Coastal and Shelf Science*, 90(3):168-172.
- Sanders, C. J., J. M. Smoak, Sanders, L. M., Naidu, A. S., and Patchineelam, S. R. 2010. Organic carbon accumulation in Brazilian mangal sediments. *Jour. South American Earth Sci*, 30(3-4):189-192.
- Borden, P.W., C-Lu Ping, P. J. McCarthy and Sathy Naidu. 2009. Clay mineralogy in Arctic tundra Gelisols, Northern Alaska. *Soil Sci. Soc. Am. J.*, 74:580-592.

- Sanders, C. J., J. M. Smoak, A. S. Naidu, D. R. Araripe, L. M. Sanders and S. R. Patchineelam. 2010. Mangrove forest sedimentation and its reference to sea level rise, Cananeia, Brazil. *Environ. Earth Sci.*, 60(6):1291-1301.
- D'Souza, A., Bandopadhyay, S., Naidu, S., Ganguli R. and Misra, D. 2009. Exploration and estimation of gravel resource potential in southeast Chukchi Sea continental shelf off Kivalina, Alaska. *Marine Geosources and Geotechnology*. 27:4255-4272
- Ortiz, J. D., L. Polyak, J. M. Grebmeier, D. Darby, D. D. Eberl, S. Naidu and D. Nof. 2009. Provenance of Holocene sediments on the Chukchi Shelf, Alaska, based on combined diffuse spectral reflectance and quantitative X-ray diffraction analysis. *Global and Planetary Change*. 68:73-84.
- Oommen, T., A. Prakash, D. Misra, S. Naidu, J. J. Kelley, and S. Bandopadhyay. 2008. GIS based marine platinum exploration, Goodnews Bay region, Southwest Alaska. *Marine Geosources and Geotechnology*. 26:1-18.
- Sanders, C., J. M. Smoak, A. S. Naidu, and S. R. Patchineelam. 2008. Recent sediment accumulation in a mangrove forest and its relevance to local sea level rise (Ilha Grande, Brazil). *Journal of Coastal Research*. 24:533-536
- McMahan, D., J. O. Jensen, S. C. Jewett, J. J. Kelley, S. Naidu, H. Van Tilburg, and M. Burwell. 2007. Submerged cultural resource management on the Last Frontier: reconnaissance, GIS mapping, and biotic/geochemical characterization of threatened shipwreck sites in southeast Alaska. In: Pollock and Godfrey (eds.), *Diving for Science 2007. Proc. American Academy of Underwater Sciences 26th Annual Diving Symposium*. Pp.69-81.
- Misra, Debasmita, Sathy A. Naidu, John J. Kelley, M. Indira Venkatesan and Franz J. Mueter. 2006. Heavy metals and hydrocarbons in Beaufort Lagoon sediments, North Arctic Alaska. In: Y. Jun Xu and Vijay P. Singh (eds.), *Coastal Environment and Water Quality*. Water Resources Publications, LLC, Highlands Ranch, Colorado. 1-16.
- Kelley, J. J., A. S. Naidu and J. J. Goering. 2004. Trace metals in sediments of Elson Lagoon (Northwest Arctic Alaska) as related to the Prudhoe Bay industrial region. *Proc. 19th Intern'l. Symposium on Okhotsk Sea and Sea Ice*. Mombetsu, Hokkaido, Japan. Pp.175-179.
- Stein, R., R. W. Macdonald, A. S. Naidu et al., 2004. *The Arctic Ocean Carbon Cycle: Present and Past*. Springer Verlag, Berlin-New York. 1993-203.
- Naidu, A. S., L. W. Cooper, J. M. Grebmeier, T. E. Whitley and M. J. Hameedi. 2004. The continental margin of the North Bering-Chukchi Sea: distribution, sources, fluxes, and burial rates of organic carbon. In: R. Stein and R. W. Macdonald (eds), *The Arctic Ocean Carbon Cycle: Present and Past*. Springer Verlag, Berlin-New York. 1993-203.
- Macdonald, R. W., A. S. Naidu, M. B. Yunker and C. Gobeil. 2004. The Beaufort Sea: distribution, sources, variability and burial of carbon. In: R. Stein and R. W. Macdonald (eds), *The Arctic Ocean Carbon Cycle: Present and Past*. Springer and Verlag, Berlin-New York. 177-192.
- Naidu, A. S., J. J. Kelley and J. J. Goering. 2003. Three decades of investigations on heavy metals in coastal sediments, North Arctic Alaska: a synthesis. *J. Phys. IV*. 107:913-916.
- Naidu, A. S., R. L. Phillips, J. J. Goering, K. H. Shin, D. M. White and D. S. Garland. 2003. Late Wisconsin-Holocene changes in nitrogen utilization in West Arctic Ocean: Evidence from $\delta^{15}N$ and C/N stratigraphy. *Proc. EGS/AGU/EUG*, Nice, France.
- Naidu, A. S., J. J. Kelley and J. J. Goering. 2003. Heavy metals. In: M. Nuttall (ed.), "Encyclopedia of the Arctic". Routledge/Taylor and Francis, New York. 851-852.

- Jewett, S. C., Zhang, X., Naidu, A. S., Kelley, J. J., Dasher, D. and Duffy, L. K. 2002. Comparison of mercury and methylmercury in Northern Pike and Arctic grayling from western Alaska rivers. *Chemosphere*. 50:383-392.
- Zhang, X., A. S. Naidu, J. J. Kelley, S. C. Jewett, D. Dasher, and L. K. Duffy. 2001. Baseline concentrations of total mercury and methylmercury in salmon returning via the Bering Sea (1999-2000). *Mar. Poll. Bull.*, 42:993-997.
- Kelley, J. J., A. S. Naidu, S. C. Jewett, L. K. Duffy and X. Zhang. 2001. Total and methyl mercury in muscles, livers and eggs of adult salmon (*Oncorhynchus* spp..) from Alaskan rivers draining into the East Bering Sea. Proc. "The 16th International Symposium on Okhotsk Sea and Sea Ice" Mombetsu, Hokkaido, Japan, 248-254.
- Naidu, A. S., L. W. Cooper, B. P. Finney, R. W. Macdonald, C. Alexander and I. P. Semiletov. 2000. Organic Carbon isotope ratios ($\delta^{13}\text{C}$) of Arctic Amerasian Continental Shelf Sediments. *Intnt'l. Jour. Earth Sci.*, 89:522-532.
- Jewett, S. C. and A. S. Naidu. 2000. Assessment of heavy metals in red king crabs following offshore placer gold mining. *Mar. Poll. Bull.*, 40:478-490.
- Naidu, A. S., B. P. Finney, and M. Baskaran. 1999. ^{210}Pb and ^{137}Cs -based sediment accumulation rates in inner shelves and coastal lakes of subarctic and arctic Alaska: A Synthesis. In P. Bruns and C. Hass (editors), Determination of Sediment Accumulation Rates, GeoResearch Forum, TransTech Publications, Zurich, Switzerland. 185-196.
- Naidu, A. S. and R. Shanker, 1999. Paleomonsoon history during the late Wisconsin-Holocene: results of a pilot study on sediments from the Laccadive Trough, Southeast Arabian Sea. *J. Geol. Soc. India*, 53:401-406.
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