

Accession No. 92-07

PROCESSING RECORD  
SCRIPPS INSTITUTION OF OCEANOGRAPHY ARCHIVES

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North Pacific Experiment. Office of the Program Administrator (Cutchin)

North Pacific Experiment. Office of the Program Administrator (Cutchin) Records, 1967-1985

Physical Description: 17 mss; ½ mss; 1 record center carton (Box 19); 2,017 slides; 14 films; photographs.

Description: The North Pacific Experiment (NORPAX) was a multi-institutional and interdisciplinary research effort designed to investigate the dynamics and energetic of large-scale fluctuations in the upper ocean. The program involved 24 principal investigators from 17 institutions/agencies. The Scripps Institution of Oceanography component of NORPAX accounted for approximately 50% of the program expenditures and included 14 principal investigators (including Jerome Namias and John Isaacs) as well as the Administrator (David Cutchin) and data library components.

The accession consists of quarterly reports, NORPAX Highlights, files of NORPAX committees (including the Scientific Advisory Panel), correspondence, project proposals, lists of publications by NORPAX scientists, films, photographs, slides and negatives.

The slides, photos and films depict the ships, instruments and activities of the various investigations. There are many slides showing data collection.

NORPAX

Ocean currents Pacific Ocean

Oceanography North Pacific Ocean

Buoys Pacific Ocean

Cutchin, David L. correspondent

Isaacs, John D. (John Dove) correspondent

Namias, Jerome correspondent

**NORTH PACIFIC EXPERIMENT (NORPAX). OFFICE OF THE PROGRAM  
ADMINISTRATOR (CUTCHIN).**

**Records, 1967-1985**

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**CORRESPONDENCE SERIES**

J.R. Blattenberger Correspondence, September 8, 1972-December 28,  
1973; [September-December 1972]

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J.R. Blattenberger Correspondence, January 2, 1974-February 24, 1975;  
[January-April 1974]

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Quarterly Report, Correspondence, 1979

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Executive

Executive

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Equatorial

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April 1, n.y.

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April 1, n.y.

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NORPAX General Dynamics [Proposal, "Large-scale Ocean and Atmosphere Fluctuations in the Pacific" Starting Date July 1, 1973]

[The North Pacific Experiment (NORPAX): The Three Year Plan]

[NORPAX, UCSD Proposal 6238, August 31, 1973]

[Contract Pricing Proposal, General Dynamics, March 10, 1972]

North Pacific Experiment, FY 74, Volume 1, Program Summary, June 22, 1973

NORPAX Status Report, June 5, 1975

LRP (Long Range Plan), n.d.

LRP [Five year Plan, August 1978]

LRP Workfile [Five Year Plan, August and May 1978]

LRP Workfile [Long Range Plan, 1976-1980; September 1976]

September 1976

LRP Workfile, n.d.

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LRP and The Plan and Draft [Long Range Plan, 1976-1980]

History NORPAX (various dates)

North Pacific Experiment, FY 74, Appendix 1, 1973; Baker

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NORPAX MISCELLANEOUS SERIES (Continued)

North Pacific Experiment, FY 74, Appendix 1, 1973; Barnett/Bernstein

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Bjerknes

Cox/Gregg

Cox/Knox

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Foster/Rearwin

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Appendix 2; Haney

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Peterson



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Data Program

Ships of Opportunity Program

Visiting Scientists Program

NORPAX Highlights (various dates, 1972-1977)

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NORPAX Scientific Advisory Panel, From July 1972

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Proposal for support of the North Pacific Study Program,  
General Dynamics, Electro Dynamic Division, March 1972

D-I-d IDOE NORPAX Scientific Advisory Panel, 1972

1972

Cruise Reports Info (various dates, 1968-19720

670829 (Brief Statement of Technological Approach to the  
North Pacific Project, John D. Isaacs, August 19, 1967)

721002 (Correspondence, Hallgren to Nowlin, October 2,  
1972)

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NORPAX MISCELLANEOUS SERIES (Continued)

721201 (Peloquin Memorandum, December 1, 1972)

721205 (Correspondence, Jennings and Ostenso to Nierenberg, December 5, 1972)

721211 (Correspondence, Snyder to Barnett, December 11, 1972)

721221 (Front Page, The San Diego Union, December 21, 1977)

721227 (NORPAX Data Management program, n.d.)

730110 ["Results of the NORPAX Co-Principal Investigators Meeting of January 4-5, 1993]

730111 [Concerning Proposal to NORPAX Data Library, January 11, 1973]

730112 ["Why Modeling in NORPAX," January 11, 1973]

730115 [Data Acquisition, January 17, 1973]

730118 ["Where Poseidon Courts Aeolus," New Scientist article, January 18, 1973]

730122 ["One Possible Buoy Policy for the New Two Years," Warren B. White, January 23, 1973]

730201, Volume 1, Number 1, NORPAX Highlights, February 1973

730202, History Leading up to NORPAX, February 2, 1973

730205 [re: NORPAX Organization and Administration Plan, February 7, 1973]

730207 [re: NCAR Proposal concerning Atmospheric Responses to Ocean Anomalies, February 7, 1973]

730215 [Memo re: Visit with NOAA People, February 15, 1973]

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NORPAX MISCELLANEOUS SERIES (Continued)

730215 [Notes of meeting with NORPAX Buoy Panel, February 8, 1973]

730216, Trouble [NORPAX Memoranda, February 16, 1973]

730223 [“The North Pacific Experiment: A study of Large-Scale Ocean and Atmospheric Fluctuations in the Pacific,” February 23, 1973]

730228 [NORPAX Data Acquisition Plans, February 28, 1973]

NORPAX Archive [NORPAX Story, and Status Report, 1972, 1973]

NORPAX Proposal, FY 75, Vol. 1, Program Plan

[NORPAX Line Islands Monitoring Preliminary Data Report through 1976]

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[NSF/ONR, Rainbow FY 73 and 74]

Contributions reprint Info Form: SIO

ONR Admiral’s Briefing, 1979 (Draft)

PB-Scripps, Title: Large-Scale Ocean and Atmospheric Interrelationships in the Pacific, Formally IPASS- Folder 3, December 21, 1970

Last of Part Report, RSF Conference, 1958

Key NORPAX Historical Documents (various dates, 1969-1982)

[North Pacific Experiment Briefing for Office of Naval Research, October 12, 1972]

[CalCOFI, Rancho Santa Fe Meeting, Proceedings, 1957/1958?]

[Data Catalogue, NORPAX/FGGE 1979-1980 (August 1982)]

NORPAX (North Pacific Experiment), July 20, 1976

The Plan, April, 1977 [Long Range Plan, 1976-1980]

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NORPAX MISCELLANEOUS SERIES (Continued)

NORPAX (North Pacific Experiment), [Long Range Plan, 1976-1980]

[1976-1980]

Possible Emblems, n.d

Miscellaneous, n.d.

n.d.

n.d.

NORPAX (North Pacific Experiment), July 20, 1976, Miscellaneous, n.d.

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Mailing labels

US Polymode Program and Plan, December 1976

Branches, A Sponsored Funds Report of UCSD in Action, 1975-1976

NORPAX, Anomaly Dynamics Study, 5 Year Plan, August 1978

California Ocean Research, A Sea Grant Sampler

Mode I, The Program and the Plan

NORPAX Data, n.d.

n.d.

NORPAX Data Management Final Catalogue, April 1984

NORPAX Climate Group – Its Philosophy and Research Directions, July 20, 1976

A Draft of the NORPAX Climate Program, June 1977

User's Guide to NORPAX Data Services, February 1978

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- User Guide to NORPAX Data Services, May 1979
- SIO Reference Number Record Sheets
- Travel Grant
- Travel Grant
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- Travel Grant
- NORPAX Travel Grant, Final Report
- Final Report
- 12 NORPAX, Final Report [Shuttle Experiment Data Catalogue,  
1979-1980, Publication List, August 1985]
- HP [Hewlett Packard Shuttle Experiment Data Catalogue, 1979-1980,  
Publication List, August 1985]
- HP [Hewlett Packard]
- NORPAX, General Outline
- NORPAX, General Outline
- NORPAX, General Outline
- NORPAX, General Outline
- NORPAX, General Outline
- Shuttle [Experiment] Data Catalogue, 1979-1980
- Nelson Ross [Correspondence, etc.]
- Publications List, Original Additions, September 1984

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NORPAX PUBLICATIONS SERIES

Navy [Notes, Data, etc.]

Navy Accomplishments [Notes, data, etc.]

NORPAX Accomplishments [Correspondence, Address Labels]

The NORPAX Program Plan, May 1974

PI Meeting [Correspondence, 1981-1982, Journal Articles List, Draft,  
January 11, 1982

NORPAX Publications List, August 15, 1985

1982 and 1985

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NORPAX PUBLICATIONS SERIES (Continued)

Publications, Correspondence, 1972-1975

SIO Reference Series, Bibliographies, 1969-1972

Reprints Separated from the Collection

Publications, Non-NORPAX, Roden, Gunnar, Temperature and Salinity Fronts at the boundaries of the Subarctic-Subtropical Transition Zone in the Western Pacific 1972 (Articles: 1960-1975; Separated from Collection

Reid, J.L., R.A. Schwartzlose, D.M. Brown, Direct Measurements of a Small Surface eddy off Northern Baja California, Journal of Marine Resources 205-218, March 21, 1963

Isaacs, J.D. "The North Pacific Study." AIAA Paper #68-475, 3d Marine Systems and ASW Meeting, San Diego, April 29-May 1, 1968

Isaacs, J.D. "Probing the Birthplace of American Weather," Naval Research Reviews, pp. 13, 1968

Isaacs, J.D. "remarks on Some Present and Future Buoy Developments," 1968

Baxter, J.L., J.D. Isaacs, A.R. Longhurst, P.M. Roedel, Review of Activities. Report of the CalCOFI committee, California Marine Resources Committee, CalCOFI Report 13, 1969

Devereux, R.F., J.D. Isaacs, F.D. Jennings. Long-Distance Telemetry of Environmental Data for the North Pacific study. Proceedings of the International Oceanographic Conference, Brighton, England, February 16-21, 1969

Isaacs, J.D. Role of the NDBS in Future Variability Studies of the North Pacific. Proceedings of the 1<sup>st</sup> USCG National Data Buoy Systems Science Advisory Meeting, U.S. Coast Guard Academy, New London, Connecticut, May 12-14, 1962-1978, 1969

Long Distance Telemetry of Environmental Data for the North Pacific Study, February 16-21, 1969



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NORPAX PUBLICATIONS SERIES (Continued)

Namias, J. Use of Sea-Surface Temperature in Long-Range Prediction. WMO Technical Note 103. In Sea-Surface Temperatures, WMO #247: 1-18, 1969.

Isaacs, J.D. and R.A. Schwartzlose. "The Operational Results from the North Pacific Study. Proceedings of the 6<sup>th</sup> Annual meeting, Marine Technology Society 1:551-560, 1970

FNWC Atlas of Monthly Mean Sea-Surface and Sub Surface temperature and Depth of the Top of the Thermocline North Pacific Ocean, May 1971.

14

Isaacs, J.D. Engineering Problems in Monitoring the Oceans (abstract) Proceedings of the Joint Oceanographic Assembly, Tokyo, Japan, 123-124, 1971

Namias, J. Atlantic Ocean Meteorology. Encyclopedia Britannica, revised edition, 1971

Sessions, M.H. and D.M. Brown. Design of deep-Moored Instrument Stations. Marine technology Society 7<sup>th</sup> Annual Conference 82 (11): 93-111, 1971

Barnett, T.P. The North Pacific Experiment: A Study of Large-Scale Ocean and Atmosphere Fluctuations in the Pacific. Pres. AGU, SFO, December 5, 1972

Namias, J. Large-Scale and Long-Term Fluctuation in Some Atmospheric and Oceanic Variables. Nobel Symposium 20, The changing chemistry of the Oceans (ed: Dryssen and Jagner): 27-28, 1972.

Stidd, C.K. and R.M. Born, Time and Space Scales of Ocean Temperature Relationship, WMO Technology Conference, Tokyo, Japan, October 3-9, 1972

Bjerknes, J. Rhythmic variations of the Hadley Circulation Over the Pacific During 1963-1967, 1973.

Namias, J. Collaboration of Ocean and Atmosphere in Weather and Climate.

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NORPAX PUBLICATIONS SERIES (Continued)

Marine Technology Society, 9<sup>th</sup> Annual Conference, Proceedings, 163-178, 1973.

Robinson, Margaret. Atlas of Monthly Mean Sea-Surface and Sub-Surface Temperature and Depth of the Thermocline- Gulf of Mexico and Caribbean, March 3-8, 1973

Namias, J. Suggestions for Research Leading to Long-Range Precipitation Forecasting for the Tropics. International Tropical Meteorology Meeting, Nairobi AMS, [1974]

Stidd, C.K. Momentum Transfer and Surface Pressure, 1974

Suggestions for Research Leading to Long-range Precipitation Forecasting for the Tropics, from International tropical Meteorology Meeting, January 31-February 7, 1974, Nairobi, Kenya

White, W.B., T.P. Barnett. A Possible Explanation of Anomalous Events Observed in the Ocean/Atmospheric System of the Pacific Basin from 1955-1960. CalCOFI Reports XVII, October 1974

Namias, J. The Sea as a Primary Generator of Short-Term Climate Anomalies. WMO/IAMAP Symposium, WMO #421, Norwich, England, August 18-23, 1975

Salmon, R. and M. Hendershott. Large Scale Air-Sea Interactions with a Simple General circulation Model, 1975

Saur, J.F.T., 1975. Oceanic Conditions between the Hawaiian Islands and the U.S. West Coast as monitored by Ships of Opportunity, 1975

Saur, J.F.T. NOAA Oceanic Conditions between Islands and the U.S. West Coast as Monitored by Ships of Opportunity-1975. 1<sup>st</sup>-168. December 1978

INDEX, An Oceanographic Contribution to International programs in the Monsoon Region of the Indian Ocean FGGE/MONEX IOC/CINCWIO, 1976

Barnett, T.P. An Attempt to Verify some Theories of El Nino, JPO 7 (5): 633-647. September 1977.

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NORPAX PUBLICATIONS SERIES (Continued)

A Brief Documentation of the NORPAX Ocean Model, April 1977

Chahine, M.T. Proceedings of Symposium on radiation in the Atmosphere with Special Emphasis on Structure and Radiation Properties of Aerosols and Clouds...H.J. Bolle, Editor Science Press, 1977

Draft of the NORPAX Climate Program ad-hoc committee of NORPAX and Consultants, June 1977

Garwood, R.W. and N.T. Camp, 1977. Notes and correspondence. J.P.O., May 1977

Pazan, S.E. Proceedings of a Historical Marine Climate Data Meeting held at SIO, October 19, 1977

"Analysis of Seasonal Persistence of Climate in Nebraska," M.P. Lawson, A.V. Douglas, P.J. Englehart, University of Nebraska, Department of Geography, 1978

NORPAX Anomaly Dynamics Study, 5-Year Plan, August 1978 [Section III of the 1978 NORPAX Plan]

Pazan, Steve, User's Guide to NORPAX Data Services, February 1978

"The Role of the Oceans in the Global Climate System," T.P. Barnett. Climate Change. Editor John Gribbin, 1978

15

L. Magaard. "Low Frequency Motions in the North Pacific and their Possible Generation by Meteorological Forces," Marine Forecasting, 1979

Meyers, G. and W. White. Large-Scale variation in the Baroclinic Gyre, Structure of the North-West Pacific, May 1979

Namias, J. "Winter 1978 Weather Prediction," coastal Oceanography and Climatology News, Winter 1979

Saur, J.F.T. and D.R. McLain. Oceanic Conditions during 1976 between San Francisco and Honolulu as Observed from Ships of Opportunity. NOAA Technological Report, pp. 72-92, June 1979

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NORPAX PUBLICATIONS SERIES (Continued)

Taft, Bruce A. and Paavo Kovala. Temperature, salinity, Thermosteric Anomaly and Zonal geostrophic velocity sections along 150°W from NORPAX Shuttle Experiment (1977-1978). University of Washington, Department of Oceanography, Special Report, Number 87, March 1979

Wyrtki, K. El Nino. La Recherche, volume 10, no. 106, 1212-1220, 1979

McLain, Douglas R., J.A. Favorite. "Expendable Bathythermograph Sections Across the Central Equatorial Pacific Ocean, 1972-1979." Pacific Environmental Group, Southwest Fisheries Center, NMFS, September 12, 1980

[Predicting Winter Precipitation regimes in the Southern United States, 1980]

The Relationship Between Downward Irradiance and Upper Ocean Structure. By: J.J. Simpson and T. Dickey, 1980

NORPAX Data Management Final Catalogue, April 1984

NORPAX SLIDES, PHOTOGRAPHS AND NEGATIVES SERIES

Miscellaneous Photographs, n.d.

n.d.

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Expense, Sydney (from Dan Cayan to, Dave Cutchin) [Slides, n.d.]

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Slide Collections distributed

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Slides, Ametek

Slides, PCM

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Slides, People

Slides, People [Conferences]

Slides, General Climate

Slides, General Climate [Namias Lecture, February 22, 1978]

Slides, NORPAX Climate Forecast

Slides, NORPAX Climate Forecast [Barnett Seminar, March 2, 1978]

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Slides, ADS Data Operations

Slides, Haney Mt. Hood talk

Slides, April 1977 Briefing ADS [Anomaly Dynamics Study]

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- Slides, NORPAX 9207 BT Related base Maps Cost Effectiveness
- Slides, NORPAX Climate Forecasting Research Slides
- Slides, NORPAX Ships Generally before Shuttle GYRE and WELCOMA
- Slides, NORPAX Navy Stills 2<sup>nd</sup> class
- Slides, NORPAX Navy Stills 2<sup>nd</sup> class
- Slides, NORPAX David Cutchin's USSR Slides
- Slides, NORPAX Lake Lecture
- 18 Slides, NORPAX Cloud Photos, December 1979
- Slides, NORPAX from figures in NORPAX Highlights volume 2, no. 2 through 2 (6), n.d.
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- Slides, NORPAX, NORPAX Building during construction, 1975
- Slides, NORPAX Lake Slides very nice
- Slides, NORPAX, Barnett Equatorial Analysis, Xtras
- Slides, NORPAX, Extra Namias Blues
- Slides, NORPAX least useful NASA Slides
- Slides, NORPAX, Washington, D.C. and MODE Extras, Chinese Delegation, May-June 1983
- Slides, NORPAX PETS and E.G.4's w and w/o interface [computer monitors]



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Slides, NORPAX, Dups of Tony's slides

Slides, NORPAX, Legs 4 and 5 LJ P-P Extra duplicates Bio, Hydro PCM  
C14 Chris Garrel, ADS dups

Slides, NORPAX

Slides, NORPAX CO PI Mtg. People

Slides, NORPAX EBT

Slides, NORPAX, Ameter PCM

Slides, NORPAX, miscellaneous

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Original master, Walter Schmidt's Footage of NORPAX-FGGE Shuttle  
Work. Mostly buoy launches, 16mm

Photolab, McNally, Jarvis, Super 8mm

Short Reel on Fanning Island, Super 8mm

"Where is the Weather Born?" 16mm

"Where is the Weather Born?" Consolidated Visual, 16mm

"Where is the Weather Born?" Tail S/T Consolidated Visual Center,  
16mm

The Global Weather Experiment Special Observing Period-1, 16mm,  
January 13-February 13, 1979

The Global Weather Experiment Special Observing Period-2, May 8-June  
8, 1979, 16mm

Old Film Buoy Loading, April 18, 1980, 16mm

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“Tropical Pacific Wind Stress,” by J.J. O’Brien and Stanley B. Goldenberg,

16mm

Florida State University, March 1980, 16mm

Don Guy Soop Film, “Plankton A. Tribord,” May 31, 1983, 16mm

Cutchin, D. 16mm film, n.d.

R. Born-NORPAX data/documents on film, ca. 1972