

MASTER LIST

( Do Not Mark )

July 1993..

DUMAND-9-93 Stenger, V.J. et al., "Capabilities of the DUMAND II Phase I - 3 String Array", Submitted to Proceedings of the 23rd International Cosmic Ray Conference, Calgary, July 1993..

DUMAND-10-93 Wilkes, R.J., et al., "The DUMAND II Acoustical Locating System", Submitted to Proceedings of the 23rd International Cosmic Ray Conference, Calgary, July 1993..

DUMAND-11-93 Stenger, V.J., "Atmospheric Neutrino Oscillations with DUMAND," Talk given at the Workshop on the Atmospheric Neutrino Anomaly, LSU, May 6-8, 1992. No proceedings published.

DUMAND-12-93 Young, K.J. for the DUMAND Collaboration, "DUMAND II (Deep Underwater Muon and Neutrino Detector). Ocean Deployment is underway.: Marseille conference.

DUMAND-1-94 P.K.F. Grieder for the DUMAND Collaboration, "DUMAND Stage II Progress Report. 3rd NESTOR International Workshop, October 19-21, 1993, Pylos, Greece.

DUMAND-2-94 J. G. Learned, "A Prototype Large Deep Ocean Neutrino Detector Design", JPL Workshop, 23-24 March 1994.

DUMAND-3-94 J. G. Learned and S. Pakvasa, "Detecting Nutau Oscillations as PeV Energies", 9 May 1994.

DUMAND-4-94 R.J. Wilkes, "Neural Network Trigger for DUMAND," 8/25/94.

DUMAND-5-94 C. Wiebusch, et al., DUMAND II Project Report 1994 (8/94).

DUMAND-8-92 Peter Gorham, Marc Rosen, Jeffrey Bolesta, and Joern Reise.  
DUMAND Cruise report: Mechanical and Acoustic Studies of Deep  
Ocean Glass Sphere Implosions.

DUMAND-9-92 R.J. Wilkes for DUMAND Collaboration. DUMAND-II Progress  
Report

DUMAND-10-92 Victor J. Stenger. Neutrino Oscillations in the Sea.  
Proc. 2nd NESTOR International Workshop, 19-22 October 1992,  
Pylos, Greece, L. Resvanis, ed.

DUMAND-11-92 Victor J. Stenger. Optimizing Deep Underwater Detectors.  
Proc. 2nd NESTOR International Workshop, 19-22 October 1992,  
Pylos, Greece, L. Resvanis, ed.

DUMAND-12-92 Victor J. Stenger. High Energy Astrophysics: Potential Sources  
and their Underwater Detection. Proc. 2nd  
NESTOR International Workshop, 19-22 October 1992, Pylos,  
Greece, L. Resvanis, ed.

DUMAND-13-92 Learned, J.G. DUMAND and Other High Energy Neutrino  
Astrology Projects, Proc. Int. Symp. Neutrino Astrophys.  
19-22 Oct. 1992, Takayama, Japan.

DUMAND-14-92 Panagiotis Dervenagas. Study of electromagnetic showers in  
water with the Landau-Pomeranchuk-Migdal effect at very  
high energies. Iowa State Masters Thesis, 1992.

DUMAND-1-93 The DUMAND Collaboration: C.M. Alexander, et al.,  
"Update on the Status of DUMAND II"  
Submitted to Proceedings of 23rd International Cosmic  
Ray Conference, Calgary, July, 1993

DUMAND-2-93 Alexander, C.M., et al., "Optical Module for DUMAND II -  
Japanese Version", Submitted to Proceedings of the 23rd  
International Cosmic Ray Conference, Calgary, July 1993..

DUMAND-3-93 Bosetti, P.C., et al., "An Optical Sensor for DUMAND II -  
European Version", Submitted to Proceedings of the 23rd  
International Cosmic Ray Conference, Calgary, July 1993..

DUMAND-4-93 Camerini, U., et al., "Trigger Strategies and Processing  
for DUMAND", Submitted to Proceedings of the 23rd  
International Cosmic Ray Conference, Calgary, July 1993..

DUMAND-5-93 Hauptman, J., et al., "On the Detection of UHE Cascade  
Showers with DUMAND II", Submitted to Proceedings of the  
23rd International Cosmic Ray Conference, Calgary, July 1993..

DUMAND-6-93 Hazen, E. et al., "The DUMAND II Digitizer", Submitted to  
Proceedings of the 23rd International Cosmic Ray Conference,  
Calgary, July 1993..

DUMAND-7-93 Learned, J.G., et al., "Acoustical Neutrino Detection in  
DUMAND", Submitted to Proceedings of the 23rd International  
Cosmic Ray Conference, Calgary, July 1993..

DUMAND-8-93 Okada, A. et al., "Estimate of Downgoing Atmospheric Muon  
Background Events in DUMAND II", Submitted to Proceedings  
of the 23rd International Cosmic Ray Conference, Calgary,

of Oceans 91, October 1-3, 1991, Honolulu, Hawaii.

- HDC-8-91 R.J. Wilkes for the DUMAND Collaboration: "DUMAND-II Progress Report" to appear in the proceedings of Intersections between Particle and Nuclear Physics (Tuscon, 5/91; to be published by AIP).
- HDC-9-91 V.J. Stenger for the DUMAND Collaboration: "Proposed Very Long Baseline Experiment to Search for Neutrino Oscillations with DUMAND II" Proceedings of the 22nd ICRC, Aug. 11-23, 1991, Dublin, Ireland, Vol. 4, p. 670.
- HDC-10-91 R.J. Wilkes for the DUMAND Collaboration: "Acoustical Positioning System for DUMAND II" Proceedings of the 22nd ICRC, Aug. 11-23, 1991, Dublin, Ireland, Vol. 4, p. 666.
- HDC-11-91 J.G. Learned and T. Stanev: "Detection of neutrinos from Active Galactic Nuclei" Proceedings of the 22nd ICRC, Aug. 11-23, 1991, Dublin, Ireland, Vol. 4 p. 650.
- HDC-12-91 V.J. Stenger: "Neutrino Oscillations and DUMAND" to appear in the proceedings of the Workshop on Long-Baseline Neutrino Oscillation, 17-20 November, 1991, Fermilab.
- HDC-13-91 V.J. Stenger: "Neutrinos from Active Galactic Nuclei" to appear in the proceedings of "Trends in Astroparticle Physics," October, 1991, Aachen, Germany, P.C. Bosetti (ed).

Note: as of 1/1/92, DUMAND External Reports are designated "DUMAND" rather than "HDC".

- DUMAND-1-92 John M. Hauptman: "Reconstruction of Simulated Long Baseline Events in DUMAND" to appear in the proceedings of the Workshop on Long-Baseline Neutrino Oscillation, 17-20 November, 1991, Fermilab.
- DUMAND-2-92 Greg Grajew for the DUMAND Collaboration: "Applications of Videoconferencing and Multi-Media to DUMAND," April 3, 1992, submitted to the ...
- DUMAND-3-92 Victor J. Stenger: "The Great Octagon: Its Secrets Revealed"
- DUMAND-4-92 Arthur Roberts: "The birth of high-energy neutrino astronomy: A personal history of the DUMAND project. Rev. Mod. Phys. 64,259 (January, 1992).
- DUMAND-5-92 A. Okada for the DUMAND Collaboration: "Sensitivity of DUMAND II to AGN Neutrinos,"
- DUMAND-6-92 John G. Learned and Victor J. Stenger. AGN Event Rates in DUMAND II. Proceeding of the Workshop on High Energy Neutrino Astrophysics," Honolulu, Hawaii, 1992, V.J. Stenger, J.G. Learned, S. Pakvasa, and X. Tata (eds), World Scientific Publishing Co.
- DUMAND-7-92 Victor J. Stenger. High Energy Neutrino Astrophysics: Promising New Sources. Proceedings of Recontres de Blois, "Particle Astrophysics," Blois, France, 1992.

March 28, 1990

HDC-5-90 A. Okada: "A Monte Carlo Study Of The Dumand II Array"  
March 1, 1990

HDC-6-90 J. Pantaleone: "Matter-Enhanced Oscillations of Accelerator  
Neutrinos" May, 1990.

HDC-7-90 J. Learned: "Signal Detection Time and Energy Threshold in  
DUMAND II"

HDC-8-90 J. Learned: "Future of High Energy Neutrino Astronomy"

HDC-9-90 P. Bosetti, et al.: "Neutrino Astronomy and Astrophysics with  
the DUMAND Stage II Octagon Detector" June 15, 1990

HDC-10-90 A. Okada: "Simulation of multi-muon detection in the DUMAND  
II Array"

HDC-11-90 V.J. Stenger: "The Response of the DUMAND Octagon Array to  
Low Energy Neutrinos"

HDC-12-90 K. Young and B. Egaas: "DUMAND II: Surveying the telescope so  
that we can point to the stars with at least 1 degree precision"

HDC-13-90 R.J. Wilkes for DUMAND Collaboration: "DUMAND II Status Report"

HDC-14-90 S-O Flyckt: "The Philips 'Smart' 15 Inch PMT"

HDC-15-90 S. Dye for DUMAND Collaboration: "The DUMAND II Experiment"

HDC-16-90 S. Tanaka and A. Yamaguchi, eds.: "The Proceedings of the DUMAND  
Optical Module Workshop"

HDC-17-90 Proceedings of the DUMAND 1990 Trigger Workshop, July 12-13,  
1990. Seattle, Washington. Kenneth K. Young and R. Jeffrey  
Wilkes, ed.

HDC-1-91 J.G. Learned and T. Stanev: "Detecting neutrinos  
from Active Galactic Nuclei"

HDC-2-91 A. Roberts: "A First Look at DUMAND III"

HDC-3-91 J.G. Learned: "Neutrino Astronomy with Large Cherenkov  
Detectors", Texas/ESO-CERN Symposium, Brighton, 12/90.

HDC-4-91 V.J. Stenger: "Preliminary Estimate of the Neutrino Oscillation  
Capabilities of DUMAND II Exposed to the Fermilab Main Injector  
Neutrino Beam"

HDC-5-91 J.G. Learned: "DUMAND, a Deep Undersea Muon and Neutrino  
Detection Project; Beginning Neutrino Astronomy in the  
Deep Ocean" (a popular description of DUMAND)

HDC-6-91 M.S. Webster et al.: "Mechanical stimulation of bioluminescence  
in the deep Pacific Ocean," Deep-Sea Research, Vol. 38,  
pp. 201-217 (1991).

HDC-7-91 V.Z. Peterson for the DUMAND Collaboration: "Ocean Technology  
Employed by the DUMAND Project" to appear in the proceedings

HDC-7-88 V.Stenger: ``Neutrino Astronomy in the Sea''  
Dec 1988

HDC-8-88 A. Robert, Editor: "Proceedings of the 1988 DUMAND workshops on  
1. Ocean Engineering and Deployment,"  
January 1988;  
2. "Signal Processing"  
March 1988.

HDC-1-89 J. Babson et al: "Cosmic Ray Muons in Deep Ocean"  
March 1989

HDC-2-89 A. Roberts: "Problems in the Design of String Section Controllers"  
March 1989

HDC-3-89 V.Z. Peterson et al.: "Transparencies of the DUMAND Presentation  
before the HEPAP Subpanel on Major Detectors in Non-Accelerator  
Physics." March, 1989

HDC-4-89 George Wilkins: "'White Paper' on DUMAND DEPLOYMENT"  
January, 1989

HDC-5-89 J.G. Learned: "Neutrino Oscillation Experiment in DUMAND II  
employing Neutrino Beam from proposed 150 GeV Fermilab Booster  
May 1989

HDC-6-89 J.G. Learned: "Trigger Finding at the Shore Station in DUMAND II:  
a simple algorithm"  
May 6 1989

HDC-7-89 V.J. Stenger: "Muons on the Moon"

HDC-8-89 V.J. Stenger: "Neutrino and Gamma-Ray Astronomy in the Sea"  
July 1989

HDC-9-89 J.G. Learned: "Lunar Neutrino Physics"  
July 20, 1989

HDC-10-89 J.G. Learned: "Dumand II Specification"  
June 1, 1989

HDC-11-89 J.G. Learned: "Dumand II Specification"  
September 30, 1989

HDC-12-89 J.G. Learned: "Group Responsibilities For Dumand II"  
October 4, 1989

HDC-13-89 H. Talkington: "Deep Underwater Muon and Neutrino  
Detection Status and Plans"

HDC-1-90 V.J. Stenger: "Track Fitting For Dumand II Octagon Array"  
January 2, 1990

HDC-2-90 J. Babson: "Neutrino Physics - The Link Between The Microcosmos  
and The Macrocosmos; A Study In Two Parts"

HDC-3-90 V.J. Stenger: "The Universe: The Ultimate Free Lunch"

HDC-4-90 J.G. Learned: "Common Observations Between DUMAND and  
Other Detectors"

(HDC-9-85 revised) August 1985

HDC-3-86 V.J. Stenger: "The Improved Prospects for Extrasolar Neutrino Astronomy--a Review for Non-Specialists--"  
August 1986

HDC-4-86 V. Peterson: "Cost Estimate for Triad Fabrication & Deployment"  
August 1986

HDC-5-86 J.G. Learned: "Proposal for a Hexagonal Array"

HDC-6-86 V.J. Stenger: "The Second Stage of DUMAND"  
October 1986

HDC-7-86 J.G. Learned: "DUMAND Status Report, 1986"

HDC-8-86 J.G. Learned: "Acoustic Detection of EAS in DUMAND"

HDC-1-87 V.J. Stenger: "The Next Stage of DUMAND"  
March 1987 (to appear in Proc. of Recontres de Moriond 1987)

HDC-2-87 V.J. Stenger: "Neutrino Astronomy & DUMAND"  
(to appear in Proc. of Recontres de Moriond 1987)

HDC-3-87 V.J. Stenger: "Dark Matters Under Land & Sea"  
(also Macro Int. Memo 11/87)

HDC-4-87 V.J. Stenger: "The Bottom-Moored String"

HDC-5-87 V.J. Stenger: "How Light is Dark?"

HDC-6-87 V.J. Stenger: "A Simple Algorithm for the Reconstruction of  
Slow-Moving Tracks in a MACRO Super-Module"  
July 1987 (also Macro Int. Memo 10/87)

HDC-7-87 "DUMAND and Neutrino Astronomy"

HDC-1-88 V.J. Stenger: "The DUMAND Octagon Array"  
March 1988

HDC-2-88 JGL et al: ``Proposal to construct a 148,000m2.  
Sr Deep Ocean Lab for the study of High Energy  
Neutrino Astrophysics & Particle Physics``  
April 19, 1988

HDC-3-88 VJS: ``DUMAND: Progress & status``

HDC-4-88 S. Matsuno; J. Babson, J.G.L., DOC, P. Grieder.  
``Single Photon Light Detector for Deep Ocean  
Applications``  
(submitted to NIM)

HDC-5-88 T. Kitamura: ``Circular Statistical Tests for  
Angular Distribution of Neutrinos of the Kamioka  
Observation from SN 1987A``  
Sept. 1988

HDC-6-88 S. Matsumo: ``Current Status of the DUMAND Project``  
Nv. 1988

HDC-7-84 H. Bradner, et al.: "Bioluminescent Light Profile in the Deep Ocean Near Hawaii"  
August 1984

HDC-8-84 A. Roberts: "The DUMAND Standard Arrays"  
September 1984

HDC-9-84 V. Peterson: "Status of DUMAND Neutrino Detector"  
June 1984 (also UH-511-540-84)

HDC-10-84 V. Stenger: "Signal and Noise Rates in the SPS"  
December 1984

HDC-1-85 R. Dunbar: "Tethered and Autonomous Remotely Operated Vehicles for Oceanographic Research and Technological Deep Ocean Applications"  
January 1985

HDC-2-85 R. Dunbar: "Remote Inspection, Maintenance, and Repair of the DUMAND Array"  
January 1985

HDC-3-85 V. Stenger: "Photinos from Cosmic Sources"  
March 1985

HDC-4-85 V. Stenger: "The Extraterrestrial Neutrino Flux Sensitivity of Underground and Undersea Muon Detectors"  
April 1985

HDC-5-85 V. Stenger: "Photinos from Cosmic Sources" (Revised)  
June 1985

HDC-6-85 T. Kitamura, et al: "Gamma Ray and Neutrino Detections with Space Station and DUMAND"  
(ICR-Report-121-85-2)

HDC-7-85 T. Aoki, et al: "Background Light Measurements in the Deep Ocean"  
(ICR-Report-123-85-4)

HDC-8-85 T. Aoki, et al: "Calibration of a Light Sensor for Background Measurements in Deep Ocean"  
(ICR-Report-124-85-5)

HDC-9-85 V. Stenger: "The Triad: A Proposed Second Stage for DUMAND"  
October 1985

HDC-10-85 P. Grieder: "The Current Status of DUMAND," invited lecture at Symposium on Underground Physics, Italy  
April 25-28, 1985

HDC-11-85 P. Grieder: "The DUMAND Project," invited lecture at Congres de la Societe Francaise de Physique, France  
September 9-13, 1985

HDC-1-86 V.Z. Peterson: "Marine Technology Challenges in the Deployment and Operation of the DUMAND Detector"  
March 1986

HDC-2-86 V.J. Stenger: "The Triad: A Proposed Second Stage for DUMAND"



DUMAND"

HDC-15-82 J.G. Learned: "Yet Another Deployment Scheme"  
October 1982

HDC-16-82 P.W. Gorham, F.A. Harris, J.G. Learned, M. McMurdo, D. O'Connor,  
V.J. Stenger, S. Thompson: "Search for Magnetic Monopoles  
Catalyzing Baryon Decay"  
November 1982

HDC-18-82 P. Guinn: "A Measurement of the Two Photon Correlation of the  
Cerenkov Light Iron Potassium - Forty in Water Solution"  
August 1982

HDC-1-83 V. Stenger: "GRIM: Gamma Ray Imaging Analysis"  
April 1983

HDC-2-83 V. Stenger: "Transparencies of Presentations by the DUMAND  
Collaboration before the Adair Committee"  
April 1983

HDC-3-83 C. Roos, M. Webster: "Draft Proposal: Preliminary Design of a  
Deployment Structure for the DUMAND Array"  
May 1983

HDC-4-83 A. Roberts: "Progress Report on Data Processing in DUMAND"  
June 1983

HDC-5-83 V. Stenger: "Teravolt Astronomy" COSPAR/IAU Symposium on  
Advances in High Energy Astrophysics and Cosmology  
July 1983

HDC-6-83 A. Roberts: "The DUMAND Monte Carlo: DUMXX A User's Manual (Rev.  
3)"

HDC-7-83 V. Stenger: "The Production of Very High Energy Photons and  
Neutrino from Cosmic Photon Sources"  
October 1983

HDC-1-84 V. Stenger: "DUMAND and High Energy Neutrino Astronomy"  
February 1984

HDC-2-84 A. Roberts, R. Svoboda: "Experimental Confirmation of Monte-Carlo  
Generated Distribution of Cerenkov Light from a Muon Track"  
March 1984

HDC-3-84 A. Roberts: "Improvements in Single Efficiency and Background  
Rejection"  
March 1984

HDC-4-84 V. Stenger: "Operation of the DUMAND Array in the Presence of  
High Background"  
June 1984

HDC-5-84 A. Roberts: "Effects of Introducing Doublet Coincidence Detectors  
in DUMAND"  
June 1984

HDC-6-84 A. Roberts: "Progress Report on DUMAND Array Studies"  
September 1984

October 1981

HDC-81-14 A. Roberts, et al.: "Requirements for DUMAND PMT Tubes"  
October 1981

HDC-81-15 A. Roberts: "DUMAND Signal Processing: The Elimination of  
Spurious Event Gates"  
November 1981

HDC-81-16 A. Roberts: "Channel Multipliers and Microchannel Plates in  
DUMAND PMT's"

HDC-81-17 R. Cence: "Line Sign DIMUONS at the Tevatron"  
October 1981

HDC-1-82 A. Roberts: "Recognition of Multiple Muon Events in DUMAND"

HDC-2-82 A. Roberts: "Brief Summary of Signal Processing Workshop,  
February 8-13, 1982"  
February 1982

HDC-3-82 A. Roberts: "Memorandum to Oceanographers"  
March 1982

HDC-4-82 A. Roberts: "Proposed Test System for Measuring K40 Backgrounds"  
April 1982

HDC-5-82 F.A. Harris: "Muon String Results and DUMAND Status"  
June 1982

HDC-6-82 J.G. Learned: "Technical Report on DUMAND's Muon String"  
June 1982

HDC-7-82 A. Roberts: "Progress Report on Monte Carlo Studies of DUMAND  
Data Processing"  
June 1982

HDC-8-82 A. Roberts: "Monte Carlo Studies: Current Techniques of  
Analysis"  
July 1982

HDC-9-82 J.G. Learned: "Ocean Science and DUMAND, Meetings at SIO and  
NOSC, 7/27-28/82"  
July 1982

HDC-10-82 V.J. Stenger: "Very High Energy Neutrino and Gamma Ray  
Astrophysics"  
September 1982

HDC-11-82 V.J. Stenger: "Very High Energy Gamma Ray Observations on SS433"  
September 1982

HDC-12-82 V.Z. Peterson: "Deep Underwater Muon and Neutrino Detection  
(DUMAND)"  
September 1982

HDC-13-82 A. Roberts: "Technological Advances Achieved in DUMAND"  
February 1982

HDC-14-82 A. Roberts: "Further Results on Rejection of Spurious Tracks in

# HDC EXTERNAL REPORTS

HDC-81-1	A. Roberts: "A Proposed New Deployment Scheme, Combining Drill Ship and Master-Buoy Concepts: The DUMAND Tower" April 1981
HDC-81-2	J.G. Learned, V.Z. Peterson, A. Roberts, & V.J. Stenger: "Summary Report on Progress at the Hawaii DUMAND Center" March 1981
HDC-81-3	J.G. Learned, V.Z. Peterson, A. Roberts, & V.J. Stenger: "Advances in DUMAND Array Design" March 1981
HDC-81-4	D.J. McGibney, A. Roberts, & U. Camerini: "Advances in Detectors for DUMAND Arrays" March 1981
HDC-81-5	V.J. Stenger & A. Roberts: "Monte Carlo Studies of DUMAND Array Performance" March 1981
HDC-81-6	V.J. Stenger: "The Sensitivity of DUMAND Arrays to Extraterrestrial Neutrino Fluxes" March 1981
HDC-81-7	A. Roberts & V.J. Stenger: "Monte Carlo Array Studies. Asymmetric Arrays and the Use of Low Sensitivity Sensors in Sparse Arrays"
HDC-81-8	G. Blackinton, et al.: "The Muon String - An Undersea Cosmic Ray Experiment" May 1981
HDC-81-9	L.R. Glen, J.G. Learned, & V.J. Stenger: "DUMAND Monte Carlo Studies" March 1981
HDC-81-10	J.G. Learned: "Attenuation of Cerenkov Photons in the Ocean" April 1981
HDC-81-11A	V.J. Stenger, J.G. Learned, V.Z. Peterson, & A. Roberts: "DUMAND: A Deep Underwater Muon and Neutrino Detector - Present Status" July 1981
HDC-81-11B	A. Roberts, V.J. Stenger, V.Z. Peterson, & J.G. Learned: "Designing the DUMAND Array" July 1981
HDC-81-11C	G. Blackinton, et al.: "The Muon String - An Undersea Cosmic Ray Experiment" July 1981
HDC-81-12	A. Roberts, U. Camerini, D. McGibney, R. Winston: "Development of an Underwater High Sensitivity Cerenkov Detector: SEA URCHIN" October 1981
HDC-81-13	J.G. Learned, V.Z. Peterson, A. Roberts, & V.J. Stenger: "Technological Advances Achieved in DUMAND"