

MPL TECHNICAL MEMORANDUMS

Marine Physical Laboratory
Scripps Institution of Oceanography

- MPL TM-99 Magness, T. A. Heterodyne correlator. (1952).
MPL TM-100 Magness, T. A. Heterodyne correlator, part II. (1952).
MPL TM-101 Rudnick, P. Cross-correlation with time-scale difference.
(1952).
MPL TM-103 Rudnick, P. Electromagnetic background supplementary
report. (1956).
MPL TM-105 Anderson, V. C. Digital multi-beam steering (DIMUS).
(1957).
MPL TM-107 Sagar, F. H. Acoustic absorption in single crystals of
nickel sulphate. (1958).
MPL TM-108 Rudnick, P. DIMUS: Processing gain for small signal
detection. (1959).
MPL TM-109 Anderson, V. C. Small submarine syncretic sonar
parameters for ASW. (1959).
MPL TM-110 Mason, R. G. Preliminary report on gravity
measurements in the Line Islands, August/September
1957. (1959).
MPL TM-112 Anderson, V. C. Cost valuation of tolerances for
acoustic arrays. (1960).
MPL TM-113 Fisher, F. H. Degree of dissociation of $MgSO_4$
solutions from acoustic absorption and density data.
(1960).
MPL TM-114 Anderson, V. C. Independent vertical phasing of the
Artemis array. (1960).
MPL TM-116 Cherry, W. R. Null balance tests on four-element
Albacore Dimus Arrays. (1961).
MPL TM-117 Anderson, V. C. Selection of beam widths for partial
system. (1961).
MPL TM-118 Anderson, V. C. Multiple channel magnetic drum time
delay. (1961).
MPL TM-119 Raff, A. D. Troubles with towing a large oceanographic
instrument from a ship and some of their solutions.
(1961).

- MPL TM-120 Vaquier, V. and R. E. Warren. A ship-towed proton magnetometer. (1961).
- MPL TM-121 Kenyon, K. Preparations for measuring horizontal thermal microstructures in the deep sea. (1962).
- MPL TM-122 Vacquier, V. and J. Belshe. Palaeomagnetism of deep sea cores. (1961).
- MPL TM-123 Squier, E. D. Paper tape punch and encoder. (1962).
- MPL TM-124 G. G. Shor, J. and D. D. Pollard. Interim Report on Mohole site selection studies. (1962).
- MPL TM-125 Anderson, V. C. First order correction of location error in a multiple beamformer. (1962).
- MPL TM-126 Phillips, R. P. and J. G. G. Shor. Report on a seismic refraction profile in Princess Charlotte Bay, Queensland, Australia. (1962).
- MPL TM-127 Raff, A. D. A time saving method for determining the characteristic shape and strike of oceanic magnetic anomalies. (1962).
- MPL TM-128 VonHerzen, R. P., J. Northrop, and K. Rhea. Heat flow measurements on the Hawaiian Arch. (1962).
- MPL TM-129 Harrison, C. G. A. Paleomagnetism of deep sea sediments. (1962).
- MPL TM-130 Anderson, V. C. Optimization of a bottom-mounted Dimus array for passive surveillance. (1962).
- MPL TM-131 Anderson, V. C. and W. R. Cherry. Artemis Dimus Test - December 1962. (1963).
- MPL TM-132 Gibson, D. K. DIMUS Shift Register. (1963).
- MPL TM-133 Gibson, D. K. and G. L. Denny. FLIP DIMUS. (1963).
- MPL TM-134 G. G. Shor, J. and D. D. Pollard. Mohole site selection studies North of Maui. (1964).
- MPL TM-135 G. G. Shor, J. and D. D. Pollard. Seismic investigations of Seychelles and Saya de Malha banks, Northwest Indian ocean. (1963).
- MPL TM-136 G. G. Shor, J. Coral thickness at Midway atoll. (1963).
- MPL TM-137 Pollard, D. D. and J. G. G. Shor. Interim report on mohole site selection studies north of Maui. (1963).
- MPL TM-138 Rudnick, P. Continuous read-in program. (1963).
- MPL TM-139 Harrison, C. G. A. Magnetic studies of Indian Ocean sediments. (1963).
- MPL TM-140 Rees, A. I. Studies of the magnetic properties of neritic sediments from California. (1963).
- MPL TM-141 Pepper, C. S. Measurement of magnetic susceptibilities by an inductance bridge method. (1965).
- MPL TM-142 Pepper, C. S. Three-component fluxgate magnetometer for deep-sea use. (1970).

- MPL TM-143 Jones, A. C. Seismic equipment manual. (1964).
- MPL TM-144 Loughridge, M. S. Preliminary sea tests of snap-on cable fairings. (1964).
- MPL TM-145 McGehee, M. S. A high resolution differential pressure gage for deep sea use. (1964).
- MPL TM-146 Rees, A. I. The use of anisotropy of magnetic susceptibility in the study of the fabric of sedimentary rocks. (1964).
- MPL TM-147 Squier, E. D. Acoustical self-noise tests of FLIP. (1964).
- MPL TM-148 McGehee, R. P. Smash - system for the miraculous analysis of seismic headwaves. (1964).
- MPL TM-149 Harrison, C. G. A., A. S. Dunlap, J. D. Mudie, and A. I. Rees. A photographic compass inclinometer. (1967).
- MPL TM-150 Mudie, J. D. Deep-towed proton magnetometer. (1964).
- MPL TM-151 Rees, A. I. Some laboratory and field studies of anisotropy of magnetic susceptibility in sediments. (1964).
- MPL TM-152 Cushing, P. MK III-B Sampling phase-meter. (1965).
- MPL TM-154 Mudie, J. D. and C. D. Lowenstein. On the optimization of transponder spacing for range-range navigation. (1965).
- MPL TM-154 Williams, R. B. Phase difference fluctuations of L-band propagation through the atmosphere. (1964).
- MPL TM-155 Rees, A. I. The magnetic properties of rocks, sediments, and minerals. (1965).
- MPL TM-159 Loughridge, M. S. Deep-towed echo sounding west of Island Kauai. (1965).
- MPL TM-160 G. G. Shor, J. Mohole site selection studies North of Maui, 1962. (1966).
- MPL TM-161 Rees, A. I. Measurement of anisotropy of susceptibility with the torque magnetometer. (1965).
- MPL TM-162 Anderson, V. C. A steerable null processing technique for wideband passive sonar. (1965).
- MPL TM-163 Harrison, C. G. A. AC Demagnetization apparatus. (1965).
- MPL TM-164 Hamilton, N. and A. I. Rees. The anisotropy of magnetic susceptibility of the Franciscan Rocks of the Diablo Range, Central California. (1965).
- MPL TM-165 Mudie, J. D. and J. C. Belshe'. Portable proton magnetometer. (1965).
- MPL TM-166 Williams, R. B., P. Cushing, and F. H. Fisher. Sound channel bearing accuracy measurements. (1965).
- MPL TM-167 Uretsky, J. L. Dispersion of sound in sea water. (1965).

- MPL TM-169 Jones, A. C. Instruction manual fisher processal model B Serr. #10602. (1965).
- MPL TM-170 Benson, M. D. and J. D. Mudie. Sealab II staging vessel positioning control. (1965).
- MPL TM-171 Rees, A. I. Anisotropic magnetism of sediments. (1965).
- MPL TM-172 Loughridge, M. S., J. Northrop, and F. N. Spiess. A deep water transponder test. (1965).
- MPL TM-173 Rudnick, P. and C. D. Lowenstein. Program for cross-correlation functions. (1964).
- MPL TM-174 Rudnick, P. and C. D. Lowenstein. Prepare for correlation: Mean and variance. (1965).
- MPL TM-175 Rudnick, P. Fourier transforms. (1965).
- MPL TM-176 Sclater, J. G. and J. D. Mudie. Program to calibrate and tabulate resistances vs. temperature for a given thermistor. (1966).
- MPL TM-177 G. G. Shor, J. Final report: Reflection studies of sea-floor structure along the Alaskan coast. (1966).
- MPL TM-178 Harrison, C. G. A. The paleomagnetism of deep sea cores. (1966).
- MPL TM-179 Pepper, C. S. Deep sea magnetometer calibration. (1966).
- MPL TM-181 Gibson, D. K. MPL two man submarine propulsion controller. (1966).
- MPL TM-182 Raff, A. D. Operating instructions for MPL proton magnetometer (model #1). (1967).
- MPL TM-183 Squier, E. D. A variable frequency thermometer. (1967).
- MPL TM-185 Spiess, F. N. Notes on side-looking sonar. (1967).
- MPL TM-186 Benson, M. D. Deep-towed proton magnetometer. (1967).
- MPL TM-187 Loughridge, M. S. and F. N. Spiess. Sound velocity corrections to base-line lengths of acoustic transponder nets. (1968).
- MPL TM-188 Benson, M. D. MPL digital counter output converter. (1968).
- MPL TM-189 Pepper, C. S. Vehicle system developed for a sea floor recording magnetometer. (1968).
- MPL TM-190 Rasmussen, R. A. and L. M. Matthews. Fet-switched integrators as post-detection averagers in DIMUS sonars. (1968).
- MPL TM-191 Sclater, J. G. and H. E. Hupert. On the in situ measurements of the thermal conductivity of deep sea sediments. (1968).

- MPL TM-192 Williams, R. B. A technical description of equipment used for the acoustic investigations of expedition Mai-Hai (1966). (1968).
- MPL TM-195 Heavers, R. M. Studies of surface film resulting from bubbling nitrogen through a water column. (1966).
- MPL TM-198 Sclater, J. G. and S. P. Miller. A machine method for computing the effect of a two-layered conductivity structure. (1969).
- MPL TM-199 Rudnick, P. Wave directions from a large spar buoy. (1968).
- MPL TM-200 Anderson, V. C. A broad band midwater receiving array system for directional background noise studies. (1969).
- MPL TM-201 Anderson, V. C. A program for the measurement of the vertically directional noise distribution in the ocean. (1969).
- MPL TM-203 Anderson, V. C. Development plan for a vertically directional array module. (1969).
- MPL TM-204 Spiess, F. N. Quantitative scattering studies for optical sea floor search. (1969).
- MPL TM-205 Williams, R. B. Magnetic tape controller system 1800 manual. (1969).
- MPL TM-206 Williams, R. B. High speed analog scanner and analog to digital controller manual system 1500. (1969).
- MPL TM-207 Anderson, V. C. NGS Dicanne project synopsis. (1969).
- MPL TM-209 Eckart, C. H. Conceptual background for transmission experiments - I. (1969).
- MPL TM-211 Eckart, C. H. A simple sound channel. (1970).
- MPL TM-212 Pepper, C. S. Deep sea magnetometer self testing system. (1970).
- MPL TM-213 McGehee, M. S. Modular aperture sonar Report. (1970).
- MPL TM-214 Fisher, F. H. Bicarbonate dissociation and anomalous sound absorption in the ocean and Lake Superior: Another chemical relaxation? (1970).
- MPL TM-215 McGehee, M. S. Modular aperture sonar tests - summer 1970. (1970).
- MPL TM-216 Gibson, D. K. "RUM" - Remote underwater manipulator. (1970).
- MPL TM-217 Gibson, D. K. A descriptive summary of the RUM-ORB sea floor work system. (1970).
- MPL TM-218 G. G. Shor, J. Site surveys in the North Pacific and Bering Sea from ANTIPODE expedition. (1971).

- MPL TM-219 Gibson, D. K. and R. P. Lewis. Dolphin DIMUS beamformer performance tests conducted 24 and 25 September 1970. (1970).
- MPL TM-222 Rasmussen, R. A., D. K. Gibson, R. P. Lewis, and J. C. Nickles. Passive research sonar "DOLPHIN DIMUS". (1970).
- MPL TM-223 Harriss, R. A. Phase distortion test. (1971).
- MPL TM-228 G. G. Shor, J. Derivation of true bottom shape from echo-sounder records. (1971).
- MPL TM-232 G. G. Shor, J. Analysis of profiler recorder back-scatter hyperbolae for velocity information. (1972).
- MPL TM-233 G. G. Shor, J. and R. VonHuene. Travel-time plots for refraction stations near Kodiak, Alaska. (1972).
- MPL TM-235 Detrick, R. Calibration of the MPL oscillating quartz crystal temperature sensor. (1972).
- MPL TM-236 Cherry, W. R. LRAPP Beamformer. (1972).
- MPL TM-237 Holliday, D. V. An acoustic data acquisition system for research on pelagic fish schools. (1972).
- MPL TM-239 Detrick, R. and K. D. Klitgord. Sound velocity correction table and revised Matthews Tables - SOUTHTOW 2. (1972).
- MPL TM-240 Detrick, R. and K. D. Klitgord. Sound velocity correction table and revised matthews tables - South Tow 6. (1972).
- MPL TM-241 Birdsall, T. G. CEPSTRUM. (1975).
- MPL TM-243 Burke, S. P. Technical manual for MPL-60 Model 10,000 six channel high pass / low pass filter. (1973).
- MPL TM-245 Klitgord, K. D. Sound velocity correction table and revised matthews tables - OCONOSTOTOW - 1. (1974).
- MPL TM-256 Morris, G. B. Analog tap recordings of CHURCH ANCHOR exercise SUS data taken aboard R/P FLIP. (1974).
- MPL TM-261 McGehee, M. S. Paraloc linearity tester. (1974).
- MPL TM-263 Foster, T. D. and S. Rearwin. Infrared radiometry and air/sea interaction studies-Final report NOAA Grant 04-3-158-55. (1974).
- MPL TM-264 Raitt, R. W. and J. G. G. Shor. Marine seismic refraction: Anisotropy and structural field studies in the Philippine Sea - Final Report. (1974).
- MPL TM-266 Pavlicek, F., D. E. Boegeman, and F. N. Spiess. MPL calibration transponder. (1975).
- MPL TM-267 Crane, K. Calibration of the MPL oscillating quartz crystal temperature sensor. (1975).

- MPL TM-268 Castile, B. D. A preliminary report on reverberation from plankton at 330 kHz in the Western Pacific. (1975).
- MPL TM-269 Rumble, H. P. Failure analysis of ADA vehicle. (1975).
- MPL TM-272 Robbins, C. A study of the monitoring of sewage and power plant discharges in the Southern California bight. (1975).
- MPL TM-274 Squier, E. D. A phase comparison technique for a multi-element array. (1976).
- MPL TM-275 Morris, G. B. Preliminary results on seamount and continental slope reflection enhancement of shipping noise. (1975).
- MPL TM-277 Lowenstein, C. D. PDP-11 RUNOFF. (1976).
- MPL TM-278 Lowenstein, C. D. Digital multi-phase signals generated by ring counter. Marine Physical Laboratory, Scripps Institution of Oceanography. (1976).
- MPL TM-279 Anderson, V. C. Element location for the ADA array. (1977).
- MPL TM-281 Kaye, G. T. Scattering array (ScarII) background study. (1976).
- MPL TM-283-A & B. Anderson, V. C. ADA experimental program - Guidelines for experimental measurements. (1977).
- MPL TM-284 Fisher, F. H., G. F. Denny, and E. D. Squier. Pressure dependence of sound absorption in sea water. (1977).
- MPL TM-285 G. G. Shor, J. Cruise report - INDOPAC leg 5 - R/V THOMAS WASHINGTON and Phillipine sea survey leg 3 - R/V CHIU LIEN, National Taiwan Univ. (1977).
- MPL TM-286 Bishop, C. B. FLIP as a platform for measuring radiated noise of surface ships. (1977).
- MPL TM-287 Morris, G. B. Calculations and recommendations for use of subbottom profilers in detecting pipelines buried beneath rivers. (1977).
- MPL TM-288 Gibson, D. K., H. P. Rumble, D. O. Efirid, and T. G. Hoopes. ADA array vehicle towing tests. (1977).
- MPL TM-290 Morris, G. B., D. K. Gibson, W. R. Cherry, and C. K. Garrod. Shell report: Submersible pipeline repair controls (SPRC). (1977).
- MPL TM-291 Gibson, D. K., H. P. Rumble, D. O. Efirid, and T. G. Hoopes. ADA Operations - 1st submergence tests March 22 -26. (1977).
- MPL TM-292 Cherry, R. 32 element dynamic beamformer design. (1977).
- MPL TM-293 Gibson, D. K. Shell (SPRC) - An alternate synchronization scheme for high speed acoustic data telemetry. (1977).

- MPL TM-294 Berger, L. P. ADA Software documentation. (1977).
- MPL TM-295 Jirauch, R. W. and D. K. Gibson. NOSC station keeping equipment model MPL-3. (1977).
- MPL TM-296 Presley, J. Report of ADA preliminary calibrator results. (1977).
- MPL TM-297 Bishop, C. B. FLIP as a seagoing measurement platform. (1977).
- MPL TM-299 Anderson, V. C. Data collection and analysis plan for the June 1978 ADA operation. (1978).
- MPL TM-300 G. G. Shor, J., V. Vacquier, and L. Dorman. Southeast Asia tectonics: Field program first stage. (1978).
- MPL TM-301 Anderson, V. C. and D. K. Gibson. ADA array rubber dome failure. (1978).
- MPL TM-302 Hodgkiss, W. S. Transient response and weight modulation in a correlation cancellation loop. (1978).
- MPL TM-303 Spiess, F. N. Composite aperture side looking sonar. (1978).
- MPL TM-304-A. Anderson, V. C. and D. K. Gibson. ADA handling and mooring. (1979).
- MPL TM-304-B(1)(2). Edmonds, G. L. ADA array and signal processor electronics. (1979).
- MPL TM-304-C. Edmonds, G. L. ADA "A" and "B" schematics. (1979).
- MPL TM-307 Anderson, V. C. and C. Nickles. ADA calibration at sea. (1978).
- MPL TM-309 Anderson, V. C. A laboratory test of the MPL dynamic beamformer. (1979).
- MPL TM-310 Jacobson, R. S. Preliminary results of measurements of acoustic attenuation in the Central Bay of Bengal. (1979).
- MPL TM-314 Oltman, J. Time series analysis package documentation. (1979).
- (A) - (B).
- MPL TM-315 Hodgkiss, W. S. Dynamic beamforming data analysis procedure and certification. (1979).
- MPL TM-316 Hodgkiss, W. S. Study of reverberation rejection capability of adaptive array processors. (1980).
- MPL TM-318 Hodgkiss, W. S. Computer programs for the determination of array beam pattern and bearing response. (1980).
- MPL TM-319 Hodgkiss, W. S. Reverberation model: I. Technical description and user's guide. (1980).
- MPL TM-320 Hodgkiss, W. S. Reverberation model: II. Software description. (1980).
- MPL TM-322 Occhiello, L. M. AIM-65 utility program: Tape read and EPROM programmer. (1980).

- MPL TM-323 Occhiello, L. M. Sort and print symbol table - an AIM-65 program. (1980).
- MPL TM-325 Gibson, D. K. Free fall cone penetrometer. (1981).
- MPL TM-326 Gibson, D. K. Acoustic command moor line cutter. (1981).
- MPL TM-327 Oltman, J. Surface projection package. (1981).
- MPL TM-328 Oltman, J. Scattering calculation revisions in program RVMD. (1981).
- MPL TM-332 Rumble, H. P. ADA construction and operation. (1981).
- MPL TM-333 Alexandrou, D. and W. S. Hodgkiss. Preliminary processing of selected segments of the ARL/PSU FY 80 test data. (1981).
- MPL TM-334 Marchisio, G. B. and W. S. Hodgkiss. A comparison of deconvolution techniques. (1981).
- MPL TM-335 Marchisio, G. B. and W. S. Hodgkiss. Deconvolution techniques, Volume I: Deterministic deconvolution. (1981).
- MPL TM-336 Marchisio, G. B. and W. S. Hodgkiss. Deconvolution techniques, Volume II: Linear prediction deconvolution. (1981).
- MPL TM-337 Marchisio, G. B. and W. S. Hodgkiss. Deconvolution techniques, Volume III: Homomorphic deconvolution. (1981).
- MPL TM-340 Alexandrou, D. and W. S. Hodgkiss. Initial processing of selected segments of the ARL/PSU FY 80 field test data: Run ASP 52. (1982).
- MPL TM-341 Alexandrou, D. and W. S. Hodgkiss. Complex adaptive one-step linear prediction algorithms. (1982).
- MPL TM-342 Williams, R. B. and M. R. Layton. Measured ambient sea noise at 30 Hz in a shallow water region. (1982).
- MPL TM-343 Hodgkiss, W. S. High resolution spectral analysis techniques applied to the remote sensing of ocean current velocity. (1982).
- MPL TM-344 Hansen, D. S. and W. S. Hodgkiss. Doppler sonar signal processing: Exploratory data analysis II. (1982).
- MPL TM-345 Hodgkiss, W. S. and L. P. Berger. Acoustic ray models: Mathematical description and user's guide. (1982).
- MPL TM-346 Alexandrou, D. and W. S. Hodgkiss. Applications of adaptive linear predictor structures to the prewhitening of the ARL/PSU FY 80 field test data. (1982).
- MPL TM-347 Alexandrou, D. and W. S. Hodgkiss. Computer programs for the initial processing of the ARL/PSU field test data. (1982).

- MPL TM-348 Hawes, R., W. S. Hodgkiss, V. C. Anderson, J. C. Nickles, and G. L. Edmonds. Freely drifting swallow float array: Surface echo detection and tracking. (1982).
- MPL TM-349 Fincke, W., M. Carr, J. Callaghan, R. Tyce, and W. Hodgkiss. Coherent recombination - April 1981. (1982).
- MPL TM-351 Alexandrou, D. and W. S. Hodgkiss. Complex adaptive joint process algorithms. (1982).
- MPL TM-358 Hansen, D. S. and W. S. Hodgkiss. Doppler sonar data analysis: RESEARCHER Cruise September 1982. (1983).
- MPL TM-360 Hodgkiss, W. S. and D. S. Hansen. Acoustic doppler sonar data preprocessing. (1983).
- MPL TM-361 Hansen, D. S. Narrowband Doppler sonar system calibration: \fIR. V. Researcher\fR: March 1983 cruise. (1982).
- MPL TM-362 Hansen, D. S. and W. S. Hodgkiss. Signal Strength and Noise Analysis: RESEARCHER Cruise September 1982. (1983).
- MPL TM-363 Hansen, D. S. and W. S. Hodgkiss. Doppler sonar data analysis: R. V. Researcher cruise March 1983. (1984).
- MPL TM-364 Currier, R. E. Vehicle control system description. (1984).
- MPL TM-365 Gibson, D. K. Anomalous absorption preliminary system description. (1984).
- MPL TM-366 Hansen, D. S. Spectral analysis of oceanic incoherent Doppler sonar data by Fourier and modeling techniques. (1984).
- MPL TM-367 Hansen, D. S. AR spectral modeling of simulated incoherent Doppler sonar data. (1984).
- MPL TM-369 Occhiello, L. Shaft encoder documentation. (1984).
- MPL TM-370 Harriss, R. A. and C. B. Bishop. SEACLIFF scientific users manual. (1986).
- MPL TM-373 Hodgkiss, W. S. Kamloops system control and data analysis: Quick look analysis (mathematical basis). (1984).
- MPL TM-374 Fincke, W. B., J. C. Nickles, W. S. Hodgkiss, and E. D. Wolin. ACSAS/Kamloops VAX experiment control software specification. (1985).
- MPL TM-376 Hodgkiss, W. S. VLF Workshop: 24-25 January 1985 (UNCLASSIFIED). Workshop Report (W. S. Hodgkiss, Editor). (1985).
- MPL TM-377 Bishop, C. B. and F. N. Spiess. Seamount seminar (U). (1985).

- MPL TM-378 Occhiello, L. and L. Green. Sonar system controller documentation. (1985).
- MPL TM-379 de Moustier, C. Sea Beam acoustic data acquisition system. (1985).
- MPL TM-380 Culver, R. L., W. S. Hodgkiss, V. C. Anderson, J. C. Nickles, and G. L. Edmonds. Freely drifting Swallow float array: Initial estimates of interelement range. (1985).
- MPL TM-381 Hodgkiss, W. S. and F. H. Fisher. Vertical directionality of ambient noise: 150-300 Hz. (1986).
- MPL TM-383 Culver, R. L., G. L. Edmonds, W. S. Hodgkiss, V. C. Anderson, and J. C. Nickles. Freely drifting Swallow Float array: September 1985 trip report. (1986).
- MPL TM-384 Wolin, E. D. and W. S. Hodgkiss. ACSAS system control and data analysis: Quick look examples. (1986).
- MPL TM-385 Hodgkiss, W. S. ACSAS system control and data analysis: Quick look analysis (mathematical basis). (1986).
- MPL TM-386-A. Wolin, E. D. and W. S. Hodgkiss. ACSAS system control and data analysis: Siops. (1986).
- MPL TM-386-B. Wolin, E. D. and W. S. Hodgkiss. ACSAS system control and data analysis: Fungen. (1986).
- MPL TM-386-C. Wolin, E. D. and W. S. Hodgkiss. ACSAS system control and data analysis: Fileops. (1986).
- MPL TM-387-C. Hodgkiss, W. S. and F. H. Fisher. Vertical directionality of ambient noise at 32 deg. N as a function of longitude - Tape #86060. (1988).
- MPL TM-388 Almagor, D. and W. S. Hodgkiss. Application of adaptive beamforming algorithms to the 1985 ARL:UT Lake Travis field test data. (1986).
- MPL TM-389 de Moustier, C. Sea Beam acoustic data acquisition aboard R/V Jean Charcot. (1986).
- MPL TM-390 de Moustier, C. and V. Pavlicek. A fully transportable Sea Beam complex acoustic data acquisition system. (1987).
- MPL TM-391 Culver, R. L., W. S. Hodgkiss, G. L. Edmonds, and V. C. Anderson. Freely drifting Swallow float array: September 1986 trip report. (1987).
- MPL TM-392 Hodgkiss, W. S. and F. H. Fisher. BAMBINO I. 32 pgs. (1987).
- MPL TM-393 Fincke, W. B., J. C. Nickles, W. S. Hodgkiss, and E. D. Wolin. ACSAS/Steelhead VAX experiment control; software specification. (1986).

- MPL TM-394 Culver, R. L., W. S. Hodgkiss, G. L. Edmonds, and V. C. Anderson. Low frequency oscillation in 1986 Swallow float data. (1988).
- MPL TM-395 Culver, R. L., W. S. Hodgkiss, G. L. Edmonds, and V. C. Anderson. Removing resonant oscillation from Swallow float data. (1987).
- MPL TM-397 D'Spain, G. L., R. L. Culver, W. S. Hodgkiss, and G. L. Edmonds. Freely drifting Swallow float array: April 1987 trip report. (1987).
- MPL TM-398 Brienzo, R. K. Iterative method for the estimation of shot and sea floor depths using hydrophone streamer data. (1988).
- MPL TM-399 Hodgkiss, W. S. and F. H. Fisher. Vertical signal arrival structure. (1988).
- MPL TM-400 D'Spain, G. L., W. S. Hodgkiss, and G. L. Edmonds. Trip report - August 1987 Swallow float deployment with RUM. (1988).
- MPL TM-402 D'Spain, G. L., R. L. Culver, W. S. Hodgkiss, and G. L. Edmonds. Freely drifting Swallow float array: May 1987 trip report. (1988).
- MPL TM-404 D'Spain, G. and W. S. Hodgkiss. Comparison of Swallow float ocean bottom seismometers and sonobuoy data in the VLF band. (1988).
- MPL TM-405 Brienzo, R. K. Statistics of a chi-square random variable obtained from Gaussian samples with a non-zero mean. (1989).
- MPL TM-406 de Moustier, C., R. M. Lawhead, and J. Pinpin. Post processing software tools for Sea Beam complex acoustic data. (1991).
- MPL TM-407 D'Spain, G. L., R. L. Culver, W. S. Hodgkiss, and G. L. Edmonds. Freely drifting Swallow float array: August 1988 trip report. (1988).
- MPL TM-408 Tran, J. M. Q. D. and W. S. Hodgkiss. High resolution beamforming on vertical arrays in a realistic oceanic environment. (1989).
- MPL TM-409 Sotirin, B. J. and W. S. Hodgkiss. Navigation software for the MPL vertical line array. (1989).
- MPL TM-410 Sotirin, B. J. and W. S. Hodgkiss. On array performance: A methodology of system calibration and noise identification. (1989).
- MPL TM-411 Sotirin, B. J. and W. S. Hodgkiss. Large aperture array measurements of the vertical ambient noise field. (1989).

- MPL TM-412 Sotirin, B. J. and W. S. Hodgkiss. Vertical directionality measurements of ambient noise in the NE Pacific. (1989).
- MPL TM-413 D'Spain, G. L., W. S. Hodgkiss, and G. L. Edmonds. Freely drifting Swallow float array: September 1987 trip report. (1989).
- MPL TM-414 Olivera, R. M. Downslope conversion experiment: environmental data report. Marine Physical Laboratory, Scripps Institution of Oceanography, San Diego, California. (1990).
- MPL TM-415 Tran, J. M. and W. S. Hodgkiss. A performance study of full aperture and subaperture processing of vertical line arrays with the MV processor. (1990).
- MPL TM-416 Tran, J. M. and W. S. Hodgkiss. Processing real data with the full aperture and subaperture MV beamformer. (1990).
- MPL TM-417 Tran, J. M. and W. S. Hodgkiss. 200 Hz matched field processing on the September 1987 SVLA data set. (1990).
- MPL TM-418 Tran, J. M. and W. S. Hodgkiss. Analysis of 200 Hz CW tone propagation signals recorded during the September 1987 SVLA experiment. (1990).
- MPL TM-419 Tran, J. M. and W. S. Hodgkiss. High resolution beamforming on large vertical line arrays: Processing synthetic data. (1990).
- MPL TM-420 Chen, G. C., G. L. D'Spain, W. S. Hodgkiss, and G. L. Edmonds. Freely drifting Swallow float array: July 1989 trip report. (1990).
- MPL TM-421 Chen, G. C. and W. S. Hodgkiss. Localizing Swallow floats during the July 1989 experiment. (1990).
- MPL TM-422 Dotan, A., W. S. Hodgkiss, G. L. Edmonds, and J. C. Nickles. Acoustic modem: 20 December 1989 Trip Report. (1990).
- MPL TM-423 Dotan, A., W. S. Hodgkiss, G. L. Edmonds, and J. C. Nickles. Acoustic modem: 16 March 1989 trip report. Marine Physical Laboratory, Scripps Institution of Oceanography, San Diego, California. (1990).
- MPL TM-424 D'Spain, G. L., W. S. Hodgkiss, and G. L. Edmonds. Trip report - June 1989 Swallow float deployment with RUM. (1990).
- MPL TM-425 de Moustier, C. Etude du bruit sur le systeme Sea Beam a bord du N.O. Jean Charcot. 270 pgs. (1990).
- MPL TM-425 Dotan, A. and W. S. Hodgkiss. Coherence of transients. (1990).

- MPL TM-426 D'Spain, G. L., W. S. Hodgkiss, G. L. Edmonds, and M. Darling. Freely drifting Swallow float array: August 1990 NATIVE 1 experiment (first deployment). (1991).
- MPL TM-427 Horn, R., F. Uhlman, and W. S. Hodgkiss. Active ballasting of a freely-drifting sensor. (1991).
- MPL TM-428 Beers, G. W. Seadyn90 modelling: Three point mooring of FLIP with three anchors. (1992).
- MPL TM-429 Hagerty, M. T., G. L. D'Spain, and W. S. Hodgkiss. Preliminary analysis of the FLIP Array Data from the NOBS Experiment. (1992).
- MPL TM-430 D'Spain, G. L. and W. S. Hodgkiss. Trip report and preliminary analysis of the July 1991 vertical DIFAR array and engineering sea test. (1992).
- MPL TM-430 Ebrahimi, C. L. MPL Technical Publications Guidelines. (1992).
- MPL TM-433 Richardson, A. M. and W. S. Hodgkiss. Applications of bispectral analysis. (1993).
- MPL TM-434 Dorman, L. M. and A. W. Sauter. Cruise report: Noise on basalt and sediments (NOBS) R/V New Horizon 26 August 19 September 1991. Cruise Report. (1991).
- MPL TM-434 Ensberg, D. E., E. D. Wolin, S. Escher, and W. S. Hodgkiss. MDA array element localization. (1994).
- MPL TM-435 Tran, J.-M. Q. D. and W. S. Hodgkiss. Ambiguity surface manifestation of downslope converted noise sources. 55 pgs. (1994).
- MPL TM-436 Nickles, J. C., J. A. Giles, and W. S. Hodgkiss. Fiber optic telemetry receive system. (1994).
- MPL TM-437 Wolin, E. D., D. E. Ensberg, J. Murray, and W. S. Hodgkiss. VAST AEL error analysis. 86 pgs. (1994).
- MPL TM-438 Wolin, E. D., D. E. Ensberg, S. Escher, J. Murray, and W. S. Hodgkiss. MDA AEL error analysis. (1994).
- MPL TM-439 Olivera, M., J. Murray, L. Buono, and W. S. Hodgkiss. Modal decomposition: VAST Track W. (1994).
- MPL TM-440 Ensberg, D. E., E. D. Wolin, S. Escher, and W. S. Hodgkiss. VAST array element localization. (1994).
- MPL TM-441 Hodgkiss, W. S. ONR ARSPP acoustics experiment - R/V KNORR. Trip Report for ONR ARSRP Acoustics Experiment - R/V KNORR for the Period 7 July - 2 August 1993. (1994).
- MPL TM-442 D'Spain, G. L., J. J. Murray, and W. S. Hodgkiss. Predicting the matched field processing results for the Arc event during SWellEX-3. (1994).

- MPL TM-443 D'Spain, G. L., A. M. Richardson, W. S. Hodgkiss, and L. P. Berger. Ambient noise vertical and horizontal directionality during SWellEX-1. (1994).
- MPL TM-444 Ensberg, D. E. Array element localization (AEL) for acoustic arrays deployed during the ICESHELF 1994. (1995).
- MPL TM-445 Olivera, M., G. L. D'Spain, and W. S. Hodgkiss. SWellEx-3: SWSS array quick-look analysis. (1995).
- MPL TM-446 D'Spain, G. L., R. Shear, R. M. Olivera, W. S. Hodgkiss, W. A. Kuperman, and W. K. Melville. Environmental observations during the 1995 Adaptive Beach Monitoring Experiment. (1996).
- MPL TM-447 D'spain, G. L., W. A. Kuperman, W. S. Hodgkiss, and L. P. Berger. 3-D localization of a blue whale. (1995).
- MPL TM-449 Kim, K. H. and W. S. Hodgkiss. SWSS array position verification using adaptive beamforming and known source locations. (1995).
- MPL TM-450 Kim, K. H. and W. S. Hodgkiss. An intercomparison of Bartlett, MVDR and MV-EPC matched field processing results for the SWellEX G-to-I track. Final Report to NRaD contract N66001-95-M-1706. (1996).
- MPL TM-454 D'Spain, G. L., L. P. Berger, W. S. Hodgkiss, W. A. Kuperman, and W. K. Melville. Observations of the 1 Hz - 10 kHz acoustic ambient noise field near the surf zone in the 1995 Adaptive Beach Monitoring Experiment. (1996).
- MPL TM-455 Kim, K. H. and W. S. Hodgkiss. An intercomparison of robust matched-field. (1997).
- MPL TM-456 Olivera, M. and W. Hodgkiss. SWSS MDL data analysis: Track Arcmfp-5. (1997).
- MPL TM-457 Olivera, M. and W. Hodgkiss. SWSS MDL data analysis: Track Arcmfp-8. (1977).
- MPL TM-458 Murray, J. and W. Hodgkiss. SWSS MDL data analysis: track Ramfp-10. Institution of Oceanography, San Diego, CA. Technical Memorandum 200. (1997).
- MPL TM-460 Murray, J. J. and W. S. Hodgkiss. Santa Barbara Channel: Geoacoustic environment and transmission loss. Scripps Institution of Oceanography, (1988).
- MPL TM-462 Deane, G. The absorption and scattering of 2.5 MHz sounds pulses beneath breaking surf. (1998).
- MPL TM-463 Carbone, N. M., W. S. Hodgkiss, and D. E. Ensberg. High frequency (18kHz) communications in shallow water. Trip report: October 21-31, 1997 150 pgs. (1998).

- MPL TM-460. Murray, J. J. and W. S. Hodgkiss. Santa Barbara Channel: Geoacoustic environment and transmission loss. Scripps Institution of Oceanography, (1988).
- MPL TM-462. Deane, G. The absorption and scattering of 2.5 MHz sounds pulses beneath breaking surf. (1998).
- MPL TM-463. Carbone, N. M., W. S. Hodgkiss, and D. E. Ensberg. High frequency (18kHz) communications in shallow water. Trip report: October 21-31, 1997 150 pgs. (1998).
- MPL TM-464. McArthur, K. M. Sediment survey of the nearshore region at Las Pulgas Beach, Camp Pendleton, California. 37 pgs. (1999).
- MPL TM-465. D'Spain, G., L. Dorman, and W. Gaines. "ABMjr 99" - Land-Based Augmentation of the MNT/FET. (1999).
- MPL TM-466. Murray, J. J. and W. S. Hodgkiss. VLA, TLA and HLA Shallow Water MDL. 216 pgs. (1998).
- MPL TM-467. Murray, J. J. and W. S. Hodgkiss. VLA/HLA Matched Field Processing on the Radiated Acoustic Signature from a Large Surface Ship. 93 pgs. (1999).
- MPL TM-468. Gerstoft, P., G. D'Spain, W. Kuperman, and W. Hodgkiss. Calculating the waveguide invariant (beta) by ray-theoretic approaches. (2001).
- MPL TM-469. D'Spain, G. and W. Hodgkiss. Mid-frequency noise experiment 2001: Quick-look report. (2001).
- MPL TM-472. Wiggins, S. M., J. A. Hildebrand, and L. B. Conyers. Field report of geophysical investigations at the old airfield, San Clemente Island. (2001).
- MPL TM-473. Hildebrand, J. A., S. M. Wiggins, and L. B. Conyers. Field report of geophysical investigations at the proposed La Purisima Mission Visitor Center. (2001).
- MPL TM-474. Hildebrand, J. A., S. M. Wiggins, and L. B. Conyers. Field report of geophysical investigations at the Espinosa Adobe/Schock Diary CA-MNT-1429H. (2002).
- MPL TM-475. Hildebrand, J. A., S. M. Wiggins, and L. B. Conyers. Final report of the geophysical investigations at three Carrizo Corridor Stage Stations Anza Borrego Desert State Park. (2002).
- MPL TM-476. Hildebrand, J. A., S. M. Wiggins, and L. B. Conyers. Preliminary report of geophysical investigations at Las Flores Estancia, Camp Pendleton, California. (2002).
- MPL TM-477. Dallas, H., J. Hildebrand, S. Wiggins, L. Conyers, and L. Murphy. Geophysical Investigations at the Pio Pico Restoration Project, Whittier California. Final Report 81. (2002).
- MPL TM-478. D'Spain, G. L., J. J. Murray, G. L. Rovner, and M. A. Hedlin. Bearing/time plots in the 1-3 Hz band from I57US data during the shuttle Columbia re-entry on JD 32, 2003. 10 pgs. (2003).
- MPL TM-479. D'Spain, G. L., G. L. Rovner, J. J. Murray, and M. A. Hedlin. Preliminary analysis of I56US and I57US data during the shuttle Columbia re-entry on JD 32, 2003. 8 pgs. (2003).

- MPL TM-480. Hildebrand, J. Acoustic and visual monitoring for marine mammals at the Southern California off-shore range. Technical Memorandum. (2003).
- MPL TM-481 Terrill, E., Melville, W.K. and Stramski, D. Field Measurements of the Influence of Bubbles on the Inherent Optical Properties of the Upper Ocean. Final Report. (2005).
- MPL TM-482 Terrill, E. and Melville, W.K. California Cruises: Coupling At-Sea Wave Measurements with Airborne Visible and Infrared Imaging to Measure Surface Wave Processes. Final Report. (2005).
- MPL TM-483 D'Spain, G. and Kuperman, W.A. Studying Shallow Water Environmental Acoustic Fluctuations with Broadband Measurements and Fluctuations & Invariants in Shallow. Final Report. (2005)
- MPL TM-484 Pinkel, R. and Smith, J. Instrumentation for the High Resolution Measurement of Ocean Surface Waves and Currents over km Square Areas. Final Report. (2005).
- MPL TM-485 Stokes, M.D. Australian Humpback Whales and Ambient Noise. Final Report. (2005).
- MPL TM-486 Hodgkiss, W.S. and Kuperman, W.A. Offboard Active Surveillance and Communications. Final Report. (2005).
- MPL TM-487 Gerstoft, P., Hodgkiss, W.S. and Kuperman, W.A. Bayesian Inversion of Radar Clutter. Final Report. (2005).
- MPL TM-488 Deane, G. Acoustic Focusing in Shallow Water and Bubble Radiation Effects. Progress Report. (2005).
- MPL TM-489 Hodgkiss, W.S. and Kuperman, W.A. Environmentally Adaptive Reverberation Nulling. Final Report. (2006).
- MPL TM-500 Hildebrand, J.A. Acoustic and Visual Monitoring for Marine Mammals at the Southern California Off-Shore Range (SCORE). Final Report for SERDP Project 1189. (2005).