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Victor C. Anderson

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1 November 1958 - 30 September 1963

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F. N. Spiess, Director
Marine Physical Laboratory

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FINAL REPORT
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1 November 1958 - 30 September 1963

The contributions made under this contract ranged from simple hardware development to policy decisions in system design. All of the work under this contract has been reported in the attached bibliography. The major contributions may be high-lighted as follows:

1. The participation in the Artemis Signal Processing Committee and later the Systems Research Committee. Some of the supporting work which was done under the Systems Research Committee is documented in the attached bibliography. Other committee work is inextricably incorporated in the total work of the Artemis program and cannot be separated as identifiable discrete contributions.
2. The experiments in signal processing carried out under the contract were concerned with beamforming experiments using both the vertical and horizontal string installation and with the final 1963 module field. The results of these experiments were reported in a series of papers given at the U. S. Navy Underwater Acoustics Symposium. These experiments initiated consideration of adaptive beamforming processes.
3. The other major area in which a contribution was made was that of a study of a Remote Underwater Manipulator. This effort grew out of the initial consideration of the problem of installation of a large aperture acoustic array on the sea floor.

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The Artemis work was not concluded with this contract but continued under contract Nonr 2216 (05) throughout the existence of the Artemis project.

AUTHOR LIST

ANDERSON, V. C.

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1.	2 November 1959 †SIO Ref. 59-63	Quarterly Progress Report July - September 1959 (C)	MPL STAFF
2.	1 February 1960 SIO Ref. 60-8	Quarterly Progress Report October - December 1959 (C)	MPL STAFF
3.	1 March 1960 SIO Ref. 60-11 *Artemis Report 6	Summary of an Engineering Design of a Remote Underwater Manipulator (U)	ANDERSON and TODD
4.	1 May 1960 SIO Ref. 60-19	Quarterly Progress Report January - March 1960 (C)	MPL STAFF
5.	30 June 1960 Artemis Report 9	Status Report, Section on Signal Processing (C)	ANDERSON
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9.	21 December 1960 MPL TM 114	Independent Vertical Phasing of the Artemis Array (U)	ANDERSON

†SIO, University of California, San Diego, Marine Physical Laboratory
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*Artemis, Nonr 266 (66), Hudson Laboratories, 145 Palisade Street,
Dobbs Ferry, New York 10522.

Date and Publication No.	Title and Classification	Author
10. 23 February 1961 MPL TM 117	Selection of Beam Widths for Partial System (C)	ANDERSON
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17. 7 January 1963 MPL TM 131	Artemis DIMUS Test, December 1962 (C)	ANDERSON and CHERRY
18. July 1963 JUA <u>13</u> , No. 3	Beam Pattern Computations for the Artemis Vertical and Horizontal Arrays (C)	ANDERSON
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