

1981



DEPARTMENT OF THE NAVY

NAVAL INTELLIGENCE SUPPORT CENTER  
4301 SUTLAND ROAD  
WASHINGTON, DC 20390

IN REPLY REFER TO  
Ser 33/S3187

From: Commanding Officer, Naval Intelligence Support Center  
To: Director of Naval History, Washington Navy Yard, Washington, DC 20390  
(OP-09B9)

Subj: Command History 1981

Ref: (a) OPNAVINST 5750.12C of 29 January 1980

Encl: (1) Historical Review 1981  
(2) Biography of Commanding Officer [Filed in BIO FILE]  
(3) Photograph of Commanding Officer [Trans to WH]

1. (U) In accordance with reference (a), enclosures (1) through (3) are forwarded.

*Chauncey Hoffman*  
CHAUNCEY HOFFMAN

ENCLOSURE(2)

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HISTORICAL REVIEW 1981

Enclosure (1) to NISC  
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I - OPERATIONS (NISC-000)

(U) The Office of Operations saw the installation of a military head of the Navy Foreign Materiel Program and a 52% jump in productivity in 1981. The Mail Room workload increased an additional 40% in the handling of correspondence due to the arrival onboard of the Navy Field Operational Intelligence Office. Unscheduled tasking increased again by 15% over 1980.

## SUMMARY OF OPERATIONS

(U) 19 February: Mr. J. C. Cogswell attended a GIANT BOLT/GRIT SAND exploitation review meeting at Las Vegas.

(U) 27 February: Mr. C. Bradley briefed DIS students on the NFMP.

(U) 5 March: Briefed COL J. Pozza, USMC, MCDEC, on the NFMP and discussed increased level of Marine Corps participation.

(U) 10 March: RADM Smedberg (OP-950) and members of his staff were briefed on the program and the status of current programs.

(U) 17 March: Briefed Mr. Roger Panter, MOD, UK, on CLUSTER RAY/CLUSTER MUG/CLUSTER MUTE/CLUSTER MONSTER.

(U) 21 April: Mr. P. C. Allen briefed RADM Webber (SEA-09) and RADM Hopkins (SEA-05) on the NFMP.

(U) 7 May: CDR H. J. Price, USN reported aboard for duty.

(U) 13 May: CAPT R. Torrablo, Spanish DNI, visited the NFMP Facility and was briefed on the program.

(U) 10 June: Mr. M. H. Durham, MOD UK, visited the NFMP Facility and was briefed on the program.

(U) 6 July: CDR H. J. Price briefed Dr. Stephen Bryen, Deputy Assistant Secretary for International Economics Trade and Security Policy on CLUSTER MASON exploitations.

(U) 20 July: CDR H. J. Price briefed Dr. Bryen on the transfer of US microelectronic technology to the Soviets.

(U) 22 July: Mr. J. C. Cogswell briefed the annual Latin American Naval Attache Conference at the NFMP.

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(U) 12 August: Briefed OP-95 representatives, including Dr. Andreassen, on the status of ongoing exploitations.

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(U) 17 September: Dr. A. Johnson, Chief Scientist RN, visited the NFMP Facility and was briefed on the program.

(U) 1 October: CDR H. J. Price briefed RADM Cassidy (OP-95) on the capabilities of the NFMP and the status of CLUSTER VIRTUE and CLUSTER MASON.

(U) 5 October: CDR H. J. Price briefed R. N. Perle, ASD for International Security Policy on the technology transfer problems in the area of microelectronics.

(U) 12 October: CDR H. J. Price represented NIC before a committee of NATO political and economic ministers discussing technology transfer.

(U) 23 November: RADM Jackson (SEA-06) visited the NFMP Facility and was briefed on the program and status of current projects.

(U) 30 November: RADM Ramsey (OP-943) was briefed on the status of CLUSTER VIRTUE/CLUSTER MASON/CLUSTER CACTUS.

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## II - RESOURCE MANAGEMENT/COMPTROLLER (NISC-OOR)

(U) In the Office of Resource Management, LCDR Watrach served as Acting Comptroller and Mrs. Patricia De-Martini served as Assistant Comptroller January-February 1981. Mr. Robert B. Goldberg came onboard in February as the Comptroller.

(U) Ms. Marsha Oxford was hired 21 June into a newly created management analyst position to initiate and manage the Shore Required Operational Capabilities (SHOROC) and Shore Requirements, Standards, and Manpower Planning System (SHORSTAMPS).

(U) NISC-OOR changed the procedures for submitting the Program Objective Memorandum (POM) from a comprehensive command to a functional method.

(U) Due to the hiring freeze that was in effect during the fall, NISC-OOR operated at an 80% rate of personnel required.

(U) NISC-OOR was directed, as an IG requirement, to add an audit branch.

(U) The Budget consisted of \$237,000 for RDT&E, \$203,000 for other procurement; \$29,371 for Operation and Maintenance, and \$3,359,000 for military manpower. Authorized manpower levels at end of FY 1981 were 692 end strengths, consisting of 548 civilians and 144 military.

### III - NAVAL WARFARE CAPABILITIES (NISC-00W)

(U) CAPT V. K. Bowles continued as Head of NISC-00W. Mr. Thomas Robinson, Deputy Head, was transferred to NISC-50 in February 1981. Mr. Ray Elliott became Acting Deputy as of that date and was selected for the position in November 1981. Other organizational changes included the reassignment of LCDR Wilbur Shepherd and the entry onboard of CDR Ed Walters and LT John Norseen.

(U) During this period, 395 threat support taskings were completed and 17 threat assessments were produced in support of various program, projects or laboratory efforts.

(U) NISC-00W personnel presented 135 major briefings, attended 200 meetings, and were involved in 30 conferences/workshops/visits. The briefings were presented to OPNAV, NAVMAT, other members of the Intelligence Community, the General Accounting Office (GAO), and various Congressional/Senatorial staffs.

(U) During the past year, the following four DIA Publications were disseminated:

CH-1 to "The Soviet Naval Threat Circa 2000 (U)"

"Soviet Threat to U.S. Naval Undersea Forces (STUF) (U)"

"Soviet Threat to U.S. Naval Air Forces (STAF) (U)"

"Soviet Threat to U.S. Naval Surface Forces (STSF) (U)"

(U) The compilation of inputs to specific National Intelligence Estimates (NIEs) comprised another area of OOW production. During 1981, OOW personnel contributed substantive inputs to NIE 11-3/8, NIE 11-12, NIE 11-14 and NIE 13/7-81.

(U) NWP 12-8, "The Threat Intelligence Summary for Naval Air Forces", was distributed to Fleet users in late 1981. This is the first time this publication has ever been issued. An update is planned for late 1982. NWP 12-5, "The Tactical Action Officer Handbook", underwent a major revision which was issued to Fleet users in November 1981 as Rev. C. Beginning with NWP 12-5 (Rev. C) this publication will be updated quarterly by message and/or page change.

(U) NISC-00W continued coordination of the NISC Weekly Wire (Part 1 - Intelligence) production. Fifty-two Weekly Wires at the SECRET level and 22 supplements at a higher classification were produced during 1981. The popular reception of the Weekly Wire by the Fleets and multi-service shore commands continues. At the end of the year, addressees totaled 686 (257 shore commands and 429 mobile units). This total reflects a growth from the 651 total at the start of the year.

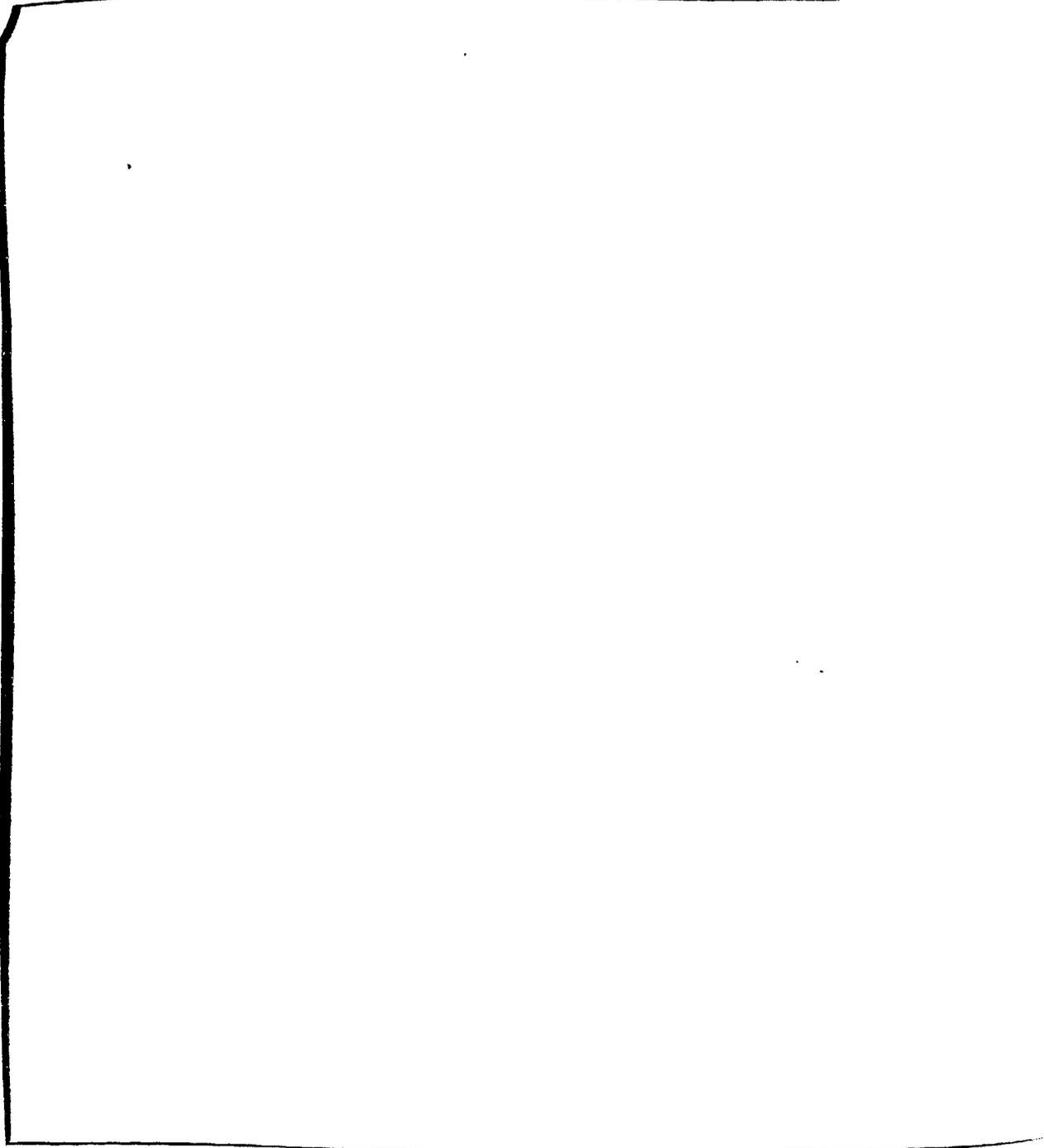
(U) The Navy Member and Chairman of the DCI's Weapon and Space Systems Intelligence Committee's (WSSIC) China and Korea Seapower Panel (CKSP) continues to be a member of NISC-00W. The CKSP is an Inter-Agency Panel with designated representation from CIA, DIA, State, Navy, NSA and NPIC. The Panel prepares periodic briefings on Chinese and/or Korean naval developments for the WSSIC and its cognizant sub-committees. Guests from all echelons of the Intelligence Community, to include cognizant National Intelligence Officers, attend the CKSP's monthly meetings. Members of the CKSP Executive Committee have contributed to or authored papers for national level consumption.

IV - UNDERSEA WARFARE TECHNOLOGY DEPARTMENT (NISC-20)

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V - NAVAL SYSTEMS DEPARTMENT (NISC-30)

(U) The Naval Systems Department is comprised of five divisions:



(U) NISC-30 personnel conducted 213 briefings in 1981, including a presentation by Mr. Jedrlinic to the Chief of Naval Operations. The Department received 612 requests for information of which 396 were delivered, 71 were in research at the end of the year and 145 were continuing requirements.

(U) Also in 1981, Mr. John Jedrlinic and Mr. Marshal Beatty were recognized with the Navy Meritorious Civilian Accomplishment Award. In addition, Ms. Claire Jefferie was named Civilian of the Quarter and Civilian of the Year.

(U) Mr. Joel Bloom became Deputy Department Head on 6 February 1981 and LT John Rosenow assumed the position of Division Head for NISC-32 (Submarine) in August 1981.

(U) On 2 August 1981, Mr. Hugo Sheridan, Aeronautical Engineer and Division Head of NISC-36 died suddenly. Mr. Sheridan had over 31 years of government service, and made major analytical contributions on the BACKFIRE naval bomber and FORGER VISTOL carrier aircraft.

VI - NAVAL WEAPONS TECHNOLOGY DEPARTMENT (NISC-40)

(U) Significant Analysis Accomplishments by NISC-40 personnel:

(U) Provided an extensive engineering assessment of the Soviet SS-NX-20 SLBM weapon system for OPNAV and DoD intelligence consumers.

(U) Provided Soviet SLBM trajectory printout data to the Commander in Chief, Strategic Air Command.

(U) Provided a technical assessment of Chinese strategic ballistic missile developments that may be expected within the next 20 years to DIA and FTD.

(U) Reevaluated Navy mission/performance requirements for CREEK CHART data collection.

(U) Continued to monitor the SS-NX-20 flight test program to determine the weapon system capabilities.

(U) Provided analytical support to the Ballistic Missile Defense Systems Command. Support included Soviet SLBM threat parameters for Ballistic Missile Defense.

(U) Evaluated, for OP-009, safety precautions used by the French handling their M-4 SLBM.

(U) Completed a Measurement and Signature Data Requirement (MASDR) on the Chinese WU-1 SLBM.

(U) Wrote an unclassified article, "Properties of Soviet Chemical Agents Against Naval Targets and Operations" in non-technical terms for the use of Navy enlisted personnel. The article is to be published in "All Hands."

(U) Identified two new mines.

(U) Participation in National Level Activities, Working Groups, etc.

(U) Provided Navy Member/Alternate Navy Member to the Radar and Optical Steering Committee and Working Group.

(U) Provided intelligence analysis inputs and technical assessments to National Intelligence Estimates.

(U) Provided Navy member to the Missile Impact Working Group.

(U) Provided Navy member to the Missile Production Working Group.

Hosted a meeting at NISC for the Ballistic Missile Defense Systems Command (BMDSCOM) and their contractors. Purpose: Provide BMDSCOM with threat information on Soviet SLBM systems.

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(U) Provided Navy member to the Electro-Optical (IR) Working Group.

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(U) Attended the PRC Strategic SSM Deployment Working Group meeting.

Provided Navy member to Aerodynamic Missile Working Group, WSSIC.

Provided Chairman to Aerodynamic Missile Working Group, WSSIC.

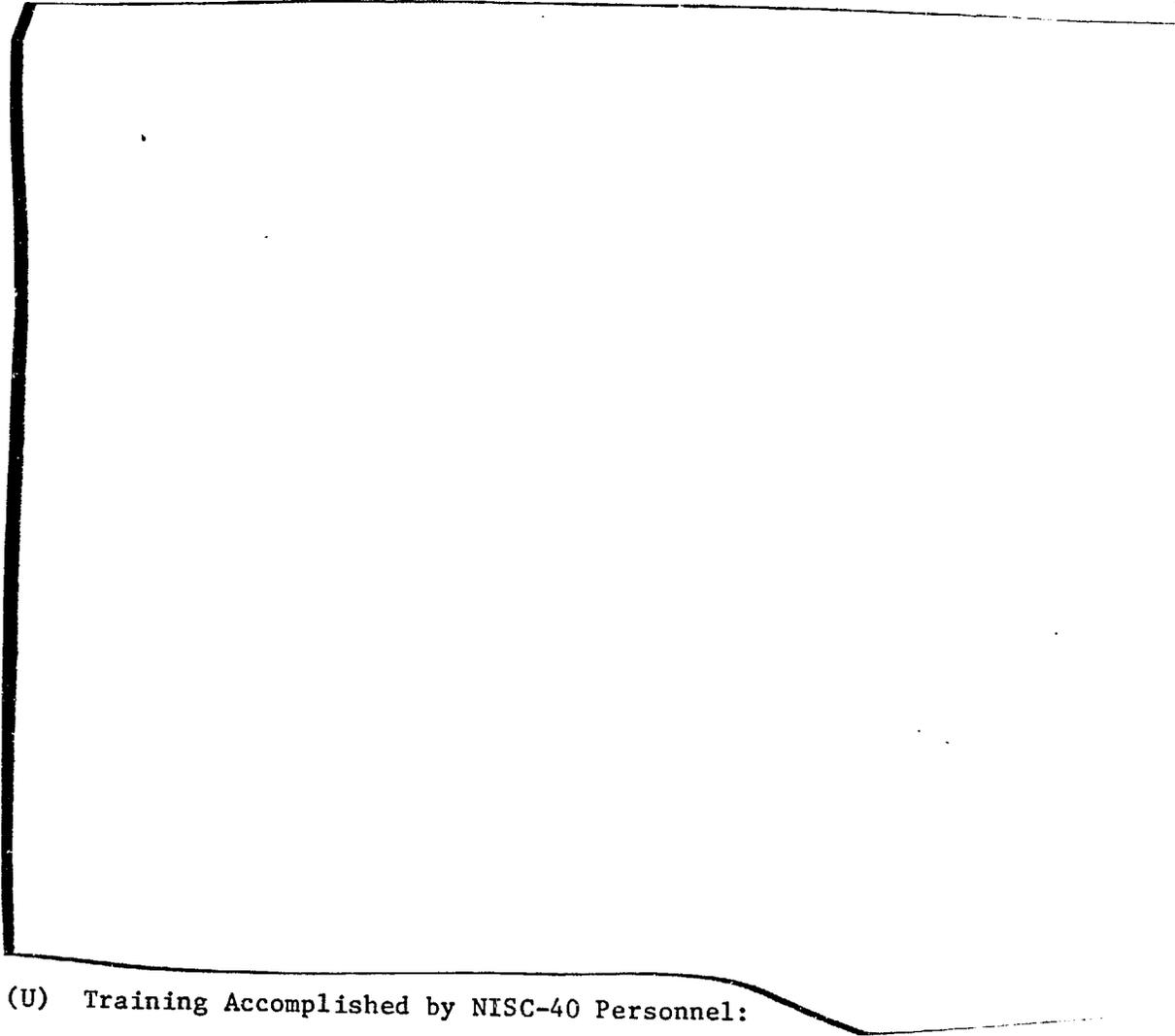
(U) Provided member to Infrared Standards Working Group.

(U) Navy Member/Alternate Navy Member Biological and Chemical Warfare Working Group, WSSIC.

(U) Provided Navy representative to the Smoke Aerosol Working Group of the Joint Technical Coordinating Group/Munitions Effectiveness.

(U) Participated in preparation of National Interagency Intelligence Memorandum on Yellow Rain Chemical Operations in Southeast Asia.

(U) Provided member to Structure and Mechanical Behavior Subcommittee, JANNAF.



(U) Training Accomplished by NISC-40 Personnel:

Analyst:

TRIDENT I Orientation Course

Mr. J. Henderson  
Mr. D. Cwiak  
Mr. E. Williams  
Mr. R. Leginus, Jr.

China Assessments Survey Course  
Defense Contract Management for  
Technical Personnel

Mr. J. Henderson  
Mr. P. Atkinson  
Mr. D. Cwiak  
Mr. J. Hyland

Missile Systems Indoctrination Course  
Dam Neck, VA

Mr. E. Williams

S&T Intelligence Course	Mr. E. Williams
Analyst Orientation Course, New London, CT	Mr. D. Cwiak
Advanced Infrared Technology, University of Michigan	Mr. J. Stasko
Nuclear Weapons Training, Albuquerque, NM	Mr. J. Booth
Chemical Senior Staff Officer's CW Course, Fort McClellan, AL	Mr. W. Best
DIOLS/COINS	Mr. W. Best
CIRC	Mr. T. Kelly
Introductory Intelligence Analysis Course	Mr. M. Garramone
Sonar Systems and Ocean Acoustics, Catholic University	Mr. M. Garramone

(U) Support to Other NISC Departments:

NISC-00W - 00W Aerodynamic Threat Publications

NISC-10 - PD Rewrites  
- Personnel Actions

NISC-20 - ACINT Rider Briefers  
- ACINT Conference Speakers

NISC-30 - Ship, Submarine and Aircraft Studies and Trends Publication  
- FSSTAS Briefing Support  
- ASW Weapons Support

NISC-50 - ASCM Seeker Support  
- ELINT Priority Support  
- TM Priority Support

(U) Support to Other Agencies on Publications:

CNO SNP Collection Guidance

FSTC Flame and Incendiary Materials and Devices - Foreign

FSTC Input to HIP C HELO System 80181

MIA        Defensive Missile Systems Handbook  
FTD        Chemical Rocket Propulsion Technology  
FTD        Rocket Propulsion Technology

(U) Participation in Special Projects:

(U) Provided support to DIA in the documentation of information pertaining to technology transfer.

(U) Continued contractual efforts in analysis of SS-N-9, SS-N-12, SS-N-19, SS-NX-21, SS-NX-22, and ASW weapons with Vought Corporation, Dallas, Texas.

(U) Provide technical guidance to FME on aerodynamic missiles.

(U) Coordinated a Naval Project Manager Conference held at NISC on cruise missile seekers.

(U) Provided support as the basis for CNO CW/BW Navy policy, including draft inputs to Navy CW Operational Requirements.

(U) Miscellaneous Activities:

Participated in the Naval Intelligence Command's Salute to "National Women's Week, 19-23 October 1981."

Provided support to the 1981 Navy Relief Fund Drive.

Utilized the efforts of ACDUTRA Naval Reservists in support of SLBM engineering analysis.

Provided essential support to NISC's successful completion of the 1981 Combined Federal Campaign.

Provided the Chairman to NISC's 1981 Performance Rating Board.

Participated in NISC Awareness Day activities, 25-26 April 1981.

Revised Signal Data Requirements (MASDRs) for aerodynamic missile infrared signatures.

Utilized ACDUTRA Naval Reservists in support of analysis relative to Naval BW/CW operations.

VII - ELECTROMAGNETIC SYSTEMS DEPARTMENT (NISC-50)

(U) The Electromagnetic Systems Department has been headed by Mr. T. Robinson (January - June 1981) and LCDR M. Bohn, USN (1 July to present). NISC-50 is organized into three divisions: Signals Analysis Division (NISC-51), Communications and Space Systems Division (NISC-52), and Electronic Division (NISC-53). The department is responsible for S&T intelligence in the following areas: foreign ELINT and telemetry signals, nuclear intelligence data, and production of S&T intelligence on foreign electromagnetic communications, surveillance, space, electronic warfare and electro-optic systems.

(U) The Signal Analysis Division (NISC-51) performs detailed technical analysis of priority ELINT and telemetry signals. NUCINT analysis is conducted in support of national and Navy tasking. The resultant intelligence is disseminated to the fleet and other intelligence agencies via numerous reporting vehicles. The division provides technical coordination and guidelines in support of various intelligence collection programs.

(U) Significant 1981 Analysis Highlights included:

(U) ELINT

(U) During 1981, NISC-52 continued to participate in Navy as well as national-level committees, working groups, and international electronic conferences composed of experts from DIA, NSA, NPIC, and NISC departments.

(U) LCDR J. Janaczek replaced Mr. D. Wolstenholme as NISC-52 Division Head on 25 August 1981. Mr. Wolstenholme was assigned as NISC-51 Division Head.

(U) On 14 September 1981, LCDR J. A. Watson replaced Mr. W. Jeschke as NISC-521 Branch Head. Mr. Jeschke was assigned Senior Branch Analyst.

(U) During 1981, the following publications were disseminated:

"Soviet Ocean Surveillance Systems (SOSS) Handbook (U)", DIA DST-1280H-441-81-SAO

"Naval Command, Control and Communications Trends - USSR (U)", DIA DST-1270S-480-81

(U) NISC-52 personnel attended the following conferences and committees:

(U) American Institute of Aeronautics and Astronautics (AIAA), Lighter than Air Systems Conference held at Annapolis, MD.

█ Sub-HF Panel of the WSSIC C<sup>3</sup> Panel, Subordinate to C<sup>3</sup> Working Group of the WSSIC - (attended monthly).

█ Economic and Telecommunications Subcommittee (ETSC) of the Economic Intelligence Committee (EIC) - (attended monthly).

█ WSSIC PRC C<sup>3</sup> Technical Advisory Group - (attended monthly).

█ WSSIC C<sup>3</sup> Working Group (Red Book) - (attended monthly).

(U) Navy C<sup>3</sup>CM Symposium held at Monterey, CA.

(U) WSSIC sponsored SSSC WP-80 Joint Conference on Soviet and PRC Space Systems.

(U) CNO sponsored Navy Space Symposium.

(U) JCS C<sup>3</sup>CM and EW Symposium held at Kelly AFB, TX.

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(U) NISC-52 held meetings with and provided S&T intelligence support on Soviet Space Systems to the following organizations:

(U) Naval Security Group - SSIIXS Vulnerability/Outboard.

(U) COMNAVELEXSYSCOM

ELEX-06 - ITSS  
PME-106 - USQ-87  
PME-107 - SLQ-34, SKR-7

(U) COMNAVSEASYSKOM - FSSTAC Support

(U) CNO

OP-095 - Warfare Planning  
OP-944 - C<sup>3</sup>CM  
OP-943 - FLTSATCOM Threat  
OP-212 - FLTSATCOM Threat

(U) NRL

Countermeasures developments/CLASSIC WIZARD  
TACTRAGRULANT - Space Systems  
COMSECONDFLT - OCEAN VENTURE

(U) NISC-52 personnel provided the following briefings:

(U) NISC-52 presented a total of 98 briefings to various DOD/OPNAV/CHNAVMAT/Fleet Flag Officers and staff members. Included in the Space briefings were all command elements of CINCPACFLT during a 2-1/2 week trip to Hawaii and Japan, and the CINCLANTFLT Flag Officers Intelligence Symposium.

(U) The following tasking and analytical achievements occurred:

Assisted in debriefing of WASH-7789 and WES-750.

(U) Prepared CNO Point Papers "Soviet Command, Control, and Communications" and "Soviet Ocean Surveillance Capabilities."

(U) Contribution to FSTC for DIA Publication DST-1720H-512-80, Vol I "ECC Telecommunications Equipment Handbook - USSR."

Updated Soviet VLF activity.

Comprehensive analysis of Soviet Extremely Low Frequency communications developments.

(U) Installed CLUSTER KITE software at FOSIF Rota.

(U) Installed CLUSTER KITE software at FOSIC London.

(U) Provided copies of Space and FLTSATCOM briefings to OP-953, TACTRAGRULANT, and TACTRAGRUPAC.

(U) NISC-53 personnel attended the following conferences and committees:

(U) Provided intelligence support to the Naval Electronic Warfare Advisory Group (NEWAG).

(U) Provided intelligence support to the USDR&E sponsored Joint Service Simulator Development Committee - CROSSBOW-S.

(U) Participated on the DCI Scientific and Technical Intelligence Committee (STIC) and the following working groups of STIC:

Computer

Electro-Optics

Directed Energy Weapons

Signal Processing

Technology Forecasting

Provided Chairman of Electro-Optics and Technology Forecasting Working Group

(U) Provided member and alternate for the WSSIC sponsored Electronic Working Group.

(U) Presented a briefing to the Tri-Services Working Group on millimeter wave threats.

(U) Presented Tactical ECCM briefing to OP-009.

(U) Association of Electronic Industries briefed on Electronic Technology and Trends.

(U) The following tasking and analytical achievements occurred:

(U) Monitored contract on military critical technology.

(U) Establish working relationships with DIA, FSTC, and CIA computer analysis through membership on STIC computer working group committee.

## VIII- INFORMATION SYSTEMS DEPARTMENT (NISC-60)

(U) During the past year (1981-82) the NIPS Miniaturized Data Base (NISC-61) played a significant role in supplying and updating the Intelligence holdings of some very high interest, newly established, Command/Strike Forces such as the Rapid Deployment Joint Task Force (RDJTF) McDill Air Force Base, Florida; the Caribbean Contingency Joint Task Force (CCJTF) U.S. Naval Station Key West, Florida; the Super Carrier CARL VINSON (CVN 70) and numerous Marine and Air Force Commands that were either newly established, or whose geographic area of responsibility changed to meet today's requirement for a global strike capability.

(U) The NIPS Miniaturized Data Base, composed of five major files: (1) Air Tactical Target Graphics (ATTGs), (2) Amphibious Studies (AMPHIBs), (3) Air and Seaplane Stations of the World (ASSOTWs), (4) Intelligence Publications (NAP Microfiche File), and (5) Selected Photography File (Photo File), is one of the largest, most widely used Intelligence Data Bases available in the Navy today. This miniaturized base of primarily Naval interest materials is updated and distributed monthly. During the time frame 1981-1982, over 500 new Intelligence Publications, 825 Tactical Target Graphic/Data Sheets, 397 ASSOTWs and 200 AMPHIBs were added to the data base, translating to (counting routine monthly updates and new data base issues) over 2,982,830 microform pieces produced and distributed by NISC during this period.

(U) During the second half of 1981 the NIPS data base began taking on a "New Look" adding Medical Capability Studies, Escape and Evasion Plans, Place Name Gazateers, etc. to the data base (documentation that previously did not meet the standard NIPS selection criteria). Commander, Naval Intelligence Command (NIC-05) the newly established NIC Data Administrator is currently looking at the various NAVINTCOM data bases for content and material placement in an effort to better satisfy user requirements. Therefore, with the NIPS Miniaturized Data Base being a viable, compact, easy accessible media for intelligence materials, it is anticipated that the NIPS base will eventually expand in both the amount of users currently receiving the base and variety of materials contained within the data base.

(U) The Translation Division (NISC-62) continued to produce its three major publications, the Soviet Naval Digest, Soviet Shipbuilding, and NAVSCAN. Questionnaire responses indicate users feel that these are unique sources of information. A WESTFLEETS supplement added to NAVSCAN in mid-1981 provides information on naval developments in non-Communist nations. An EASTFLEETS newsletter, a NAVSCAN -type publication on naval and maritime happenings in the Far East, was initiated in January 1982 and will appear as often as volume of source material and interest warrant. The lag time in preparing and publishing translations of Soviet Naval Digest and Soviet Shipbuilding issues has been reduced to six months.

(U) During 1981 and early 1982, there has been a sharp increase in the number of ships requesting translations of Welcome Aboard brochures into various languages for use in visits to foreign ports.

(U) Due to an increased flow of Chinese, Japanese, and Korean periodicals and classified documents containing valuable information available nowhere else, a translator in those oriental languages was hired in May 1981.

(U) A two-week Advanced Language Proficiency Course held at NAF Washington (Andrews AFB) in June 1981 was attended by 25 naval reservists. Instruction in translation and speaking skills in five languages was provided by three Translation Division staff members and by three members of the Division-sponsored Naval Reserve Unit 0166. (Unit 0166 has grown by about a third (22-34) in the past two years, and given the Division correspondingly greater support, notably for the WESTFLEETS supplement to NAVSCAN.) A Soviet book Soviet Naval Operations in the Great Patriotic War 1941-1945, translated by naval reservists working under the direction of Mr. William Cramer of NISC-62, was recently published by the Naval Institute Press.

(U) As an adjunct to the Russian and German language training offered to intelligence personnel during the last three years, the Translation Division has established a language tape-cassette library. The library also aids the objective of increasing the capabilities of Division members to undertake interpreting assignments.

(U) Mr. Russell Zavistovich of NISC-62 was mainly responsible for the preparation of a 675-term glossary of Soviet naval abbreviations relating to Soviet naval ship classes and types and associated terminology used in Soviet naval and shipbuilding texts. The reversal of the Soviet Shipbuilding dictionary, undertaken with the help of Naval Academy personnel, was also completed in early 1982.

(U) The year 1981 saw the approval of career-ladder position descriptions for Translators at the grade levels GS-07/09/11/12; Language Assistant at levels GS-07/08, and Clerk (Typing) at the levels GS-04/05. Also approved were GS-13 Language Specialists position descriptions without supervisory responsibilities. The approval of these new position descriptions has done much to improve office morale, and will provide career incentives to prospective employees.

(U) Activity in the Information Systems Division (NISC-63) during the 1981-82 period was mainly confined to development of the collateral library automated circulation system installed the previous year. The SCI library total automation system, also installed last year, is still being debugged while the Alpha-Micro microcomputer system which became operational in October 1981 continues to save considerable time and energy. Other innovations that were placed into full time operation in 1980, such as SOLIS, NSA's SIGINT on line information storage and retrieval data base of DoD RDT&E technical reports and current projects, were widely used by NISC analysts. Three commercially available data bases (DIALOG, ORBIT, and BRS) are in the process of being acquired. They are expected to be made available to the analysts by March 1982.

(U) The NISC-63P publications unit continues to produce several library periodicals that are widely received by NISC analysts as well as other library users. Other frequently used services include the Moscow Publications Procurement Office (PPO) program, map and chart acquisitions, CIRC inquiries and Terminal Access Systems (TAS). Statistics for 1981-82 show an increase over the same period last year of approximately 35 percent. These statistics include CIRC, DIAOLS/COINS, SOLIS and DROLS searches plus an increase in the number of IIRs and publications received, items circulated and routed plus material cataloged and indexed.

(U) The major effort in the Reprographics Division for 1981-82 was the review and planning for the renovation of the Photographic Laboratory and Print Shop. Scheduled to commence in mid-1982, the \$500,000 project will result in a major facelift for both areas to include new lighting, relocation of equipment and functions to provide for more efficient flow of work. The entire project is expected to be completed in early 1983.

(U) The Micrographics Branch moved to NIC Building #1 in December 1980. The move was accomplished in a smooth and orderly manner with minimum loss of production. In January 1981, this branch merged with the NIPS Augmentation Team to form NISC-61, the Micrographics Division.

(U) The Print Shop purchased and installed an eight unit press, collators, and a paper cutter which enhances the capabilities to ensure the timely dissemination of time-sensitive materials. A Kodak Copier 150 ATF was exchanged for a Xerox 9400 VR Copier which provides the capability to automatically reproduce two-sided copies of publications.

(U) The Photographic and Special Photo Techniques Branches combined production for Fiscal Year 1981 exceeded 1,300,000 units which reflects a 300% increase from Fiscal Year 1980. The increase in production resulted from the acquisition of new equipment, improved training programs and effective preventative maintenance of all equipment.

(U) The 1981-82 period for the Editorial Division (NISC-65) was one of steady expansion and introduction of new phototypesetting equipment.

(U) The Editorial Division processed 75 scientific and technical documents and special reports totalling 11,000 printed pages. The Graphics Branch illustrated over 16,000 drawings, briefing boards, brochures and vugraphs.

(U) The Omnitext automated text editing and phototypesetting subsystem and the Itek Corporation Mark I phototypesetter were replaced with Alphatype II text editing system and the Mark V phototypesetter. The replacement system is expected to increase publications production by ten percent resulting in an annual savings of approximately \$20,000 per year.

(U) The Compugraphic IV Edit/Writer phototypesetting system was installed in the visual aids section of the Graphics Branch to ensure completion of quick response graphic tasks which includes a yearly load of 15,000 vugraphs. Satellite inputs from vugraph originators throughout NISC via online terminals is expected to be in operation in early 1982.

IX - IMAGERY DEPARTMENT (NISC-70)

(U) The Imagery Analysis Department (NISC-70) was headed by Captain D. L. Black from January to September and by Captain R. W. Chapin, Jr. from September to December.

(U) In the area of Imagery Analysis, the following activities were conducted:

(U) Provided Primary (P) NISC and Alternate (A) Representation to the following committees:



(U) Significant Analytical Briefings:

(S) Briefings were presented on five separate special programs, covering 38 operational missions and four test operations. Recipients included Chief of Naval Operations; DNI, OP-095; OP-20; Dr. J. Vorona, Deputy DIRDIA for Science and Technology; NFOIO DET; Deputy DIRNSA; Hughes Committee; SWG; Foreign Intelligence Technology Center (CIA) Rickover Sub Working Group (NAVSEA); OP-009R; Mr. D. Latham,

SECDEF (C31); VADM Lawrence, COMTHIRDFLT; RADM Lewis, NAVMAT-08; SUBDEVGRU-1; CAPT A. Holifield, COMSUBPAC (N2); SSEP Mission Rider Groups and UK/AUSSIE Program Operators.

NWP 12-7-4 (Recognition Guide for Naval Auxiliaries) was completed and sent to CNO for printing and distribution.

A contract with DELEX, Inc. was funded with year-end money for the production of a major revision to NWP 12-7-1 (Major Combatants) and partial efforts on NWP 12-7-3 (Minor Combatants).

(U) Contract awarded to MANTECH Int'l in March for exploitation on training of NISC-70 analysts in FLIR. Course given in September.

(U) Contract awarded to MANTECH Int'l in September 1981 to research and produce a comprehensive FLIR exploitation plan. Funding was under the NAVAIR SATS (Surface/Aerospace Target Surveillance) Block Program.

(U) Produced and hosted a two-week FLIR collection/exploitation course at NISC and NAS Norfolk to train TG-168 and UK personnel in FLIR techniques.

(U) The Special Programs Branch received and exploited data on 93 special projects tasks. This included 36 quicklook messages of operational missions; three mission-collection guidance formulations; two mission-threat support packages along with weekly update reports on selected areas; and nine illustrated and descriptive hardcopy reports.

(U) Continued to assist in the preparation of photographic evaluation of DIA Intelligence Information Reports (IIRs) forwarded in response to NISC originated HIT's as well as specific requests for evaluations.

(U) Conducted daily review of IIR imagery to detect modifications and trends to determine the extent of ICR satisfaction.

(U) Provided analytical briefings in support of the Defense Intelligence School.

(U) Produced detailed drawings of Soviet R&D sites for production in DIA publications.

(U) Compiled large scale, detailed drawings of surface ships, submarines and specific objects on research vessels for use by various Naval Laboratories and field activities of Naval Intelligence Command.

(U) As tasked by the Chief of Naval Operations, provided analytical briefings in support of the following committees and activities in areas dealing with imagery exploitation, research and development:

CNO Executive Panel  
Scientific and Technical Intelligence Committee  
DCI Nuclear Intelligence Panel  
Defense Intelligence School  
Warsaw Pact Naval Panel

(U) Continued to provide quick response imagery exploitation services to the other NISC departments and COMANVINTCOM.

(U) Provided some 89 high interest briefings to Flag Officers and Senior Officials in the Washington area.

(U) Conducted with Naval Ocean Systems Center (NOSC), San Diego, an automated graphics data base feasibility study, proving the utility of a computer generated plot sheet system for NISC-73 daily reporting as well as historical purposes.

(U) Evaluated a DIA study concerning DOD softcopy requirements and provided a suggested re-direction.

(U) Conducted a comprehensive training course on image processing as it applies to a national collection system for personnel from the U. S. Army Intelligence Agency.

(U) Monitored a COMNAVAIRSYSCOM contract with ARACOR for the development of a fluorescence image enhancement kit.

(U) Provided continuing electronic repair/maintenance support.

(U) Maintained and supplied the analysts with image interpretation equipment.

(U) Produced eleven video cassettes and/or 16mm films on operational mission highlights.

(U) Significant Discoveries:

(U) Equipment Procured, Modified or Installed:

(U) Thirty .0001' scales

(U) Four anamorphic B&L stereoscopes

(U) Three Richards plotting tables

(U) Eighteen B&L 240 stereoscopes

(U) Ten pair of F.J.W. 15x eyepieces

(U) Four Richards motorized film transport systems

(U) A Remington Rand Lektriever was installed

(U) An additional disc was added to the SEL 32/50 computer system which doubles the storage capacity

(U) New Systems Developed:

(U) Digital Exploitation System (DES) - Phase I of the Digital Exploitation System (DES) was delivered and installed in October. This system designed and built for the exclusive purpose of performing digital image exploitation, is an HP-3000 based computer system employing the use of large disc storage capacities, array processing capabilities and advanced softcopy display technologies. Phase I, as planned, did not provide complete hardware and software augmentation and approximately \$1.6M will be required to adequately fund the intended Phase II implementation.

(U) Special Programs - Software was developed to read NR1 tapes, process the data and generate reports on the HP-3000 computer. The analyst was given the ability to enter data manually if one of the automated collection system failed.

(U) Personnel Changes:

(U) Mr. Howard Tarrant, Head, Technical Imagery Analysis Division retired after 35 years of outstanding government service.

(U) Mr. James Hanson of NISC-71 transferred to NIC.

(U) Two employees left the JIIS/NWP program for positions elsewhere.

(U) One cartographer from NISC-744 resigned.

(U) One secretary, one physical scientist and one electronic technician were hired in NISC-74.

(U) 1stLT Washburn, USMC reported and was assigned to NISC-71 as the OIC of a new USMC detachment. The USMC Det was created by HQ Marine Corps to be under the control of the G2, HQ USMC. The Det works at NISC-70 as imagery analysts subject to recall from time to time to meet FMF needs. The detachment is composed of 1 intelligence LCD and 5 DSI ATP trained Marines.

(U) Personnel Training:

(U) NISC-713 personnel received initial program indoctrination and "Sunstream" briefing.

(U) A NISC-712 analyst attended the two-week DIA Requirements Officer Training Course.

(U) Twenty analysts attended a one-week course in FLIR exploitation provided by MANTECH.

(U) Four analysts received three days of training in FLIR collection techniques.

(U) Two analysts attended the two-week Advanced Imagery Interpretation Training at Offutt AFB, Nebraska.

(U) Two analysts attended the Advanced Synthetic Aperture Radar training course at Offutt AFB, Nebraska.

(U) Two analysts attended a one-week HP-3000 computer operators course.

(U) Six analysts attended a one-week course in Advanced Single Photo Perspective.

(U) Four analysts attended a two-week I&W course at DIS.

(U) Two analysts attended a one-week course in Advanced Rectification of Hand Held Imagery.

(U) One analyst attended the ten-week course - Mid-Career Naval Intelligence Training Program at DIS.

(U) One analyst attended a two-week course on submarine design at M.I.T.

(U) Two analysts attended a two-week course in Naval surface ship design at M.I.T.

(U) One analyst attended a three-day course in Principles of Management.

(U) Twenty persons from NISC-70 attended an EEO course for supervisors.

(U) Two analysts attended a 16-week course in imagery analysis at NPIC.

(U) One analyst attended a one-week course in Fleet Ballistic Missiles at the Navy Guided Missile School, Dam Neck, Virginia.

(U) One analyst attended a one-week course in Surface Missile Systems at Dam Neck.

(U) Six analysts received one-week training on the "1047" system.

(U) Four analysts attended a two-day course in Doppler Navigation at M.I.T.

(U) Five persons attended a one-week course in Defense Contract Management.

(U) Ten persons attended a one week HP/DES System Manager course.

(U) Several persons attended a one-week course in HP System Programming Language.

(U) One person attended a one-week Higher Level Language course.

(U) One person attended a one-week HP-3000 Introduction course.