

NRL SPECIAL PROJECTS CONTROL NUMBER

BTK-171-75  
NRL 3-171-75DATE  
3 JUNE 75

TOP

SECRET - HANDLE VIA BYEMANCONTROL

ORIGINATOR

PMF 106-543

SERIAL NO.

BYE 59,483-75

ENCLOSURES

DATE REC'D

7/3/75

TICKLER DATE

COPY NO.

11

RECEIPT NO.

WA 80,626

SUBJECT

DIST INFO

T 6 MEETING: REPORT OF

00-000000

☐ BASIC DOCUMENT ON R/S☐ BASIC DOCUMENT NOT HELD.

DESTROY.

CODES HAVING PRIMARY INTEREST CHECK ONE

☐ RETAIN INDEFINITELY. (REFERENCE VALUE).☐ RETAIN \_\_\_\_\_ MONTHS. (INFO MATERIAL  
HAVING ONLY TEMPORARY REFERENCE VALUE).☐ DESTROY AFTER ROUTING. (NO FURTHER  
REFERENCE OR INFORMATION VALUE).

ROUTE TO	*	CY NO.	W/ ENCL	SIGNATURE	DATE OUT	DATE RETURN
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1000

7000

7030

1225

7032

7033

Lorton

Franklin

11

12

RP Mayo

7/3/75

RV

7/11

has seen

EDF

7

NRL INCOMING DOCUMENT



B171-75



11



BYE-59483-75

DESTRUCTION REPORT NO.

FINISH FILE

9.2

\* A-ACTION  
I-INFORMATION  
C-COMMENT  
R-RETAIN  
E-EVALUATION

RETURN THIS ROUTE SLIP TO NRL SPECIAL PROJECTS OFFICE, ROOM 222, BLDG. 43.  
DO NOT ROUTE TO OTHER SECTION OR BRANCH.

ACTION TAKEN BY

NRL CONTROL RECORD NDW-NRL-5216/1005 (REV. 3-72)

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CONTROL NO.

*Bye 59483/75*  
*cy 11, 12*

REFERRED TO OFFICE	RECEIVED			RELEASED		SEEN BY	
	SIGNATURE	DATE	TIME	DATE	TIME	NAME & OFFICE SYMBOL	DATE
NRL	<i>RW Mayo</i>	<i>7/13/75</i>					

Handle Via Indicated Controls

BYEMAN

*WA 80, 626*

Access to this document will be restricted to those persons  
cleared for the specific projects;

EARPOP

.....

.....

WARNING

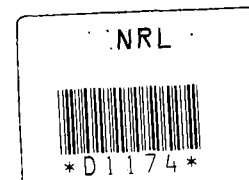
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*B7K-171-75*  
*NRL B-171-75*

NAVY SPACE PROJECT OFFICE  
~~(S)~~ NATIONAL RECONNAISSANCE OFFICE, PROGRAM C  
WASHINGTON, D.C.

OFFICE OF THE DIRECTOR

PME-106-543/pt  
3 June 1975

MEMORANDUM FOR COMMANDER, NAVAL SECURITY GROUP COMMAND  
DIRECTOR, NATIONAL SECURITY AGENCY (A81, R24, W2, W34)  
DIRECTOR, NRO STAFF (SS4, SS4A, SS7)  
DIRECTOR, CENTRAL INTELLIGENCE AGENCY (OSI)  
DIRECTOR, NAVAL RESEARCH LABORATORY (1000, 7030)  
CHIEF OF NAVAL OPERATIONS (OP955)

Subj: POPPY Technical Operations Group (TOG) Meeting; report of

Encl: (1) Agenda  
(2) List of Attendees  
(3) Mission 7107 Status  
(4) Collection Highlights  
(5) Processing Highlights

1. The POPPY Technical Operations Group met in the System Project Office conference room at the Naval Research Laboratory on 29 May 1975. The meeting agenda and a list of attendees are forwarded as enclosures (1) and (2).

2. The following topics were discussed:

a. Mission 7107 Status (NRL)

Enclosure (3) was provided by NRL. Preliminary reports on the Mission 7107 Phase IX Engineering Evaluation being conducted at [redacted] indicate that regeneration in data link eleven on satellite Delta is the only significant problem. Spacing of both satellite [redacted] is currently stable.

b. Field Site Status (NSG)

All POPPY sites are up and working. There have been a few minor outages and an overall uptime of 98 percent. Manning status remains the same with strength down at [redacted] training. These two stations will receive personnel on a temporary duty basis from [redacted], respectively. Productivity at [redacted] is not too high.

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Warning Notice - Sensitive  
Intelligence Sources and  
Methods Involved

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CLASSIFIED BY BYEMAN - 1 EXEMPT FROM  
GENERAL DECLASSIFICATION SCHEDULE OF  
EXECUTIVE ORDER 11652 EXEMPTION CATE-  
GORY 582 DECLASSIFY ON IMP DET.

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PME-106-543/pt  
3 June 1975

Subj: POPPY Technical Operations Group (TOG) Meeting; report of

The reason for planned termination of the [ ] POPPY mission even though [ ] will remain active is a lack of personnel. The suggestion was made that POPPY satellites be examined closely in the November-December timeframe to estimate how long they could be kept going. A decision could then be made on whether to continue POPPY operations [ ]. Discussion will continue on this topic at the next TOG meeting.

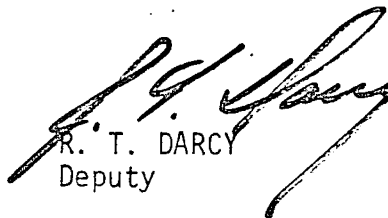
c. Collection Highlights (NSG)

A message has been received from CINCPACFLT expressing praise for the POPPY product during Exercise OKEAN 75. Forty to sixty percent of the emitters processed during the exercise were associated to specific platforms. Enclosure (4) was provided by NSG.

d. Processing Highlights (NSA)

The NSA representative submitted enclosure (5), which provides the status of investigation on an unidentified signal being intercepted at [ ]

3. The next TOG meeting is scheduled at 0930 on 26 June and will be hosted by the SOC/NSOC. Reports will be made by NRL on the current engineering evaluation and by NSA on the multiple system calibration results.

  
R. T. DARCY  
Deputy

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NRL



\*D1175\*

AGENDA

SATELLITE STATUS - NRL

GROUND SITE STATUS - NSG

COLLECTION HIGHLIGHTS - NSG

PROCESSING HIGHLIGHTS - NSA

~~TOP SECRET~~ EARPOP ZARF

ENCLOSURE (1) to

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NRL

LIST OF ATTENDEES

SPO

LCDR POTTS

NSG

NSA

CNO

NRL

NRO (SOC)

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ENCLOSURE (2) to  
BYE No. 59,483-75

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~~TOP SECRET~~MISSION 7107 STATUS

NRL



\*D1177\*

Since the last TOG meeting the vehicles increased in sunlight exposure and are now back in minimum (67%) sunlight. During the early weeks of May, problems arose with cell 15 (negative) on 7107B. It has begun to deviate from the rest of the cells; there has been a drop of almost .1 volt from the average voltage of the cells in the battery. Cell 18 also appears to be erratic. While this is not a crisis, it is a situation that bears close watching. The secondary negative battery for 7107B is in good condition and can be used if further deterioration warrants such action.

There have been several recurring problems that have precipitated in low sunlight, including regenerative noise on 7107D, band 11, and several band options that have been malfunctioning. These are being checked at [redacted] now during the Engineering Evaluation, Phase IX. A report will be sent out next week and a verbal report will be made at the next TOG.

The current spacing is [redacted] for CD.

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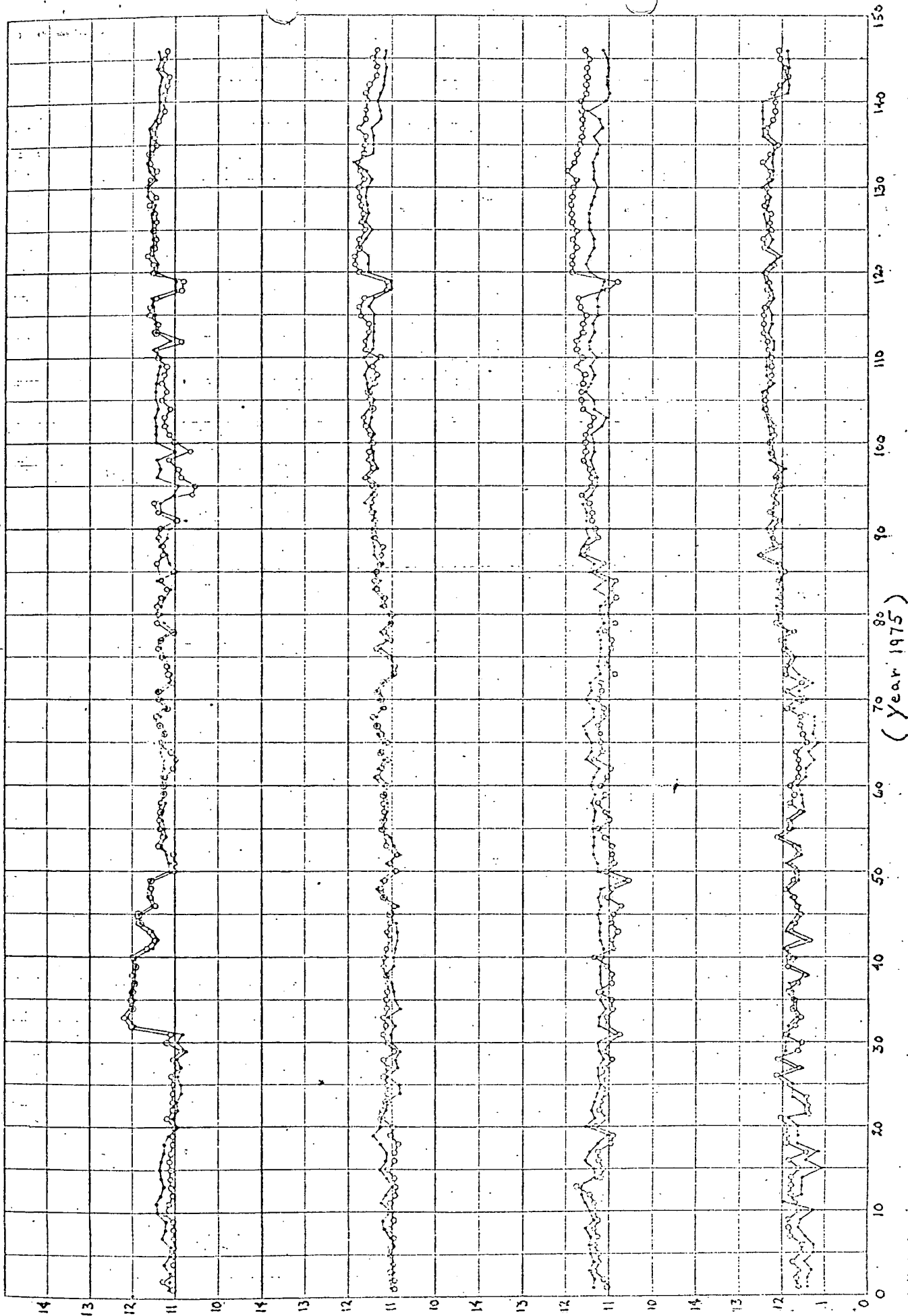
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ENCLOSURE (3) BYEMAN No. 59,483-75

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MINIMUM DAILY VOLTAGE

± : 0



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~~TOP SECRET~~COLLECTION HIGHLIGHTSOcean Surveillance: (22 Apr - 27 May 75)

Since the last TOG meeting, there have been a total of four thousand eight hundred and six [ ] locations. Six hundred and nine of these were equated to major combatants or auxiliaries. Four hundred and forty nine intercepts were combatant associated, but could not be correlated to a specific hull. Sixty [ ] emitters were intercepted, with three being out-of-area in the Mediterranean. Three thousand six hundred and eighty eight intercepts of merchant associated radars were reported.

1. [ ] activity was at a low level in all fleet areas during the report period.
2. IVAN SUSANIN AGSB AISBERG made a fleet transfer from the Baltic Sea to the Barents Sea.
3. SSOCS KOROLEV returned to the Black Sea.
4. PRIMORYE AGI KRYM entered the Mediterranean from the Black Sea, and transited to an OPS area off the coast of Cyprus.
5. KANIN DDG BOYKIY and ZHGUCHIY, and AOR DNESTR exited the Northern Fleet, transited the Atlantic, and after a port call in Boston, transited to the Caribbean Sea.
6. SVERDLOV CLCP ZHDANOV, KASHIN DLGM SDERZHANNYY, KASHIN DLG SKORYY, and AOR BORIS CHILIKIN departed their anchorage area near Crete and transited to the Adriatic Sea, where they made a port call in Split, Yugoslavia. They have returned to the Crete area and Gulf of Sollum.
7. ARKTIKA AGBN ARKTIKA departed the Barents Sea and is operating in the Arctic Ocean.
8. KARA CLGM OCHAKOV returned to the Black Sea from the Mediterranean.
9. KASHIN DLG STRONYI made a Barents Sea to Black Sea transit (possibly to go into the yards to be refitted as a DLGM).
10. The three [ ] intercepted in the Mediterranean were tentatively identified as [ ] Parameters did not fit the peak values for [ ]

ENCLOSURE (4) to  
BYE No. 59,483-75

NRL



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11. There were four intercepts of the [ ] all geolocated to the Sea of Japan. Three intercepts were made by [ ] with PRF's of 1122.3 PPS and one intercept by [ ] with PRF's of 1122.344 PPS. PRF equates to the 288th divisor of the 323.2 KHZ crystal. Intercepts were on 22, 23 and 25 May 75.

12. Numerous intercepts of a [ ] in the Baltic Sea probably equate to the new construction KRIVAK DDGSP BALTIC VII.

Page 2 of ENCLOSURE (4) to  
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~~TOP SECRET~~TECHNICAL INTELLIGENCE AND EOB:

Project Flavor: Twenty four intercepts of target emitter [ ] were reported in support of task. Twenty intercepts were geolocated [ ] and four to [ ].

Eighty eight revs were collected for Signal Level Measurement with [ ] [ ] target emitters being intercepted.

Project Mousehole: [ ] was under full coverage in support of Project Mousehole during the period 28 Mar to 1 May. Project Mousehole was the coverage of [ ] to determine if communists troops were moving in surface-to-air missile systems or using captured U.S. equipment. Due to the nature of target signals and the relatively poor geometry for coverage of the subject area, few target signals were geolocated. The site reported three geolocations of a U.S. surveillance radar from the [ ] area.

Nine unidentified emissions were intercepted and reported.

An intercept of unident 17-239 on 22 Apr was geolocated to 50-37N/58-38E. Emitter PRF was unstable and varied from 3188.3-3186.8 PPS during intercept. An intercept of unident 13-179 on 23 Apr was geolocated to 36-49N/125-47E.

An intercept of [ ] on 6 May displayed a three element eight position stagger with median PRF of 631.26 PPS. PRI's observed were (1) 1219.92, (2) 1706.66, and (3) 1213.38 USEC with a PRI cycle of 1,2,3,2,2,2,2,2. A [ ] was again intercepted on 7 May displaying an eight element eight position stagger with median PRF of 797.34 PPS. Although subject signals were not geolocated they are believed to originate from the [ ] emitter of the modified [ ].

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~~TOP SECRET~~PROCESSING HIGHLIGHTS

[ ] unidentified signal [ ] At the last TOG we stated that through digital analysis and tests conducted at NRL, unidentified signal [ ] was postulated to be the result of a continuous wave signal containing a sixty cycle ripple at less than one percent modulation. Recent analysis results tend to negate these assumptions.

An average sixty cycle rate (59.9-60.4) is still present throughout the data and the source and function still remain unknown. The recent analysis has revealed peak values in the PRI distribution with approximately 6700 PPS (approximately 149 usec) being the most predominant value. Due to Mission 7107 collection system limitations, it is postulated that lower PRI values may be present.

Although all available data has been processed and analyzed, we are still unable to resolve the modulation type and mode of operation of this signal.

Tasking has been requested for Mission 7700 to obtain intercepts of the signal. Also, we have requested that Mission 7700 auto scan tapes that contain the 800-1000 MHz range be searched around the activity time of our signal. [ ] has also been tasked to include the 815-970 MHz band on ascending and descending passes with certain equator crossings.

Speculation was made that the [ ] signal may represent an uplink to a Soviet Molynia Satellite, either in synchronous or in a highly elliptical orbit. Activity of the Molynia Satellites was compared to the times of signal activity of [ ]. The operating schedules of various Molynia Satellites compared favorably with [ ] intercept times, however orbital geometry negated signals from these satellites as the source of [ ].

[ ] (4 GHZ signal similar to [ ] that is being collected by Mission 7107): The ELT on this signal is currently in distribution. [ ] All data contained in the ELT is based entirely on Mission 7107 intercepts of [ ].

Analysis will continue on all future intercepts. Recently a digital tape was received from [ ] which contained an intercept of [ ] collected with signal level measurement.

NRL



\*01179\*

ENCLOSURE (5) to  
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