

BYE-61972-92

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G R O W T H T R E N D S I N P O P P Y

C05025658

Approved for Release: 2024/06/10 C05025658

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	DYNO I	DYNOII	7101	7102	7103	7104	7105	7106
Flight Date	22June'60	29JUN'61	13Dec'62	15Jun63	11Jan64	9Mar'65	31May 67	(Jun68)
Number of Payloads	1	1	2	3	3	4	4	7
Average Weight	42	40	55	60-85	65-90	103-130	678total	11400total
Diameter	20"	20"	20"	20"& 24"	20"& 24"	24"	24"&Multi-face 27"	27"Multi-face
Number of SIGINT Bands	1	2	8	12	12	32	52	88
Upper Frequency used (Mc)	3250 Mc	920	3250	4100	5150	9500	14,800Mc	15,200Mc
Sensitivity (dbm)	47	47	48	50	57	74	up to 101	25
R & D Experiments	none	none	none	none	2 Axis & 2 Axis Gravity stabilized 2 Axis & 3 Axis Gravity stabilized 2 Axis & 3 Axis Gravity stabilized			
Accuracy of Emitter Location	none	none					improven	25

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HANDLE VIA
3 BYEMME
8 / 27 CONTROL SYSTEM ONLY

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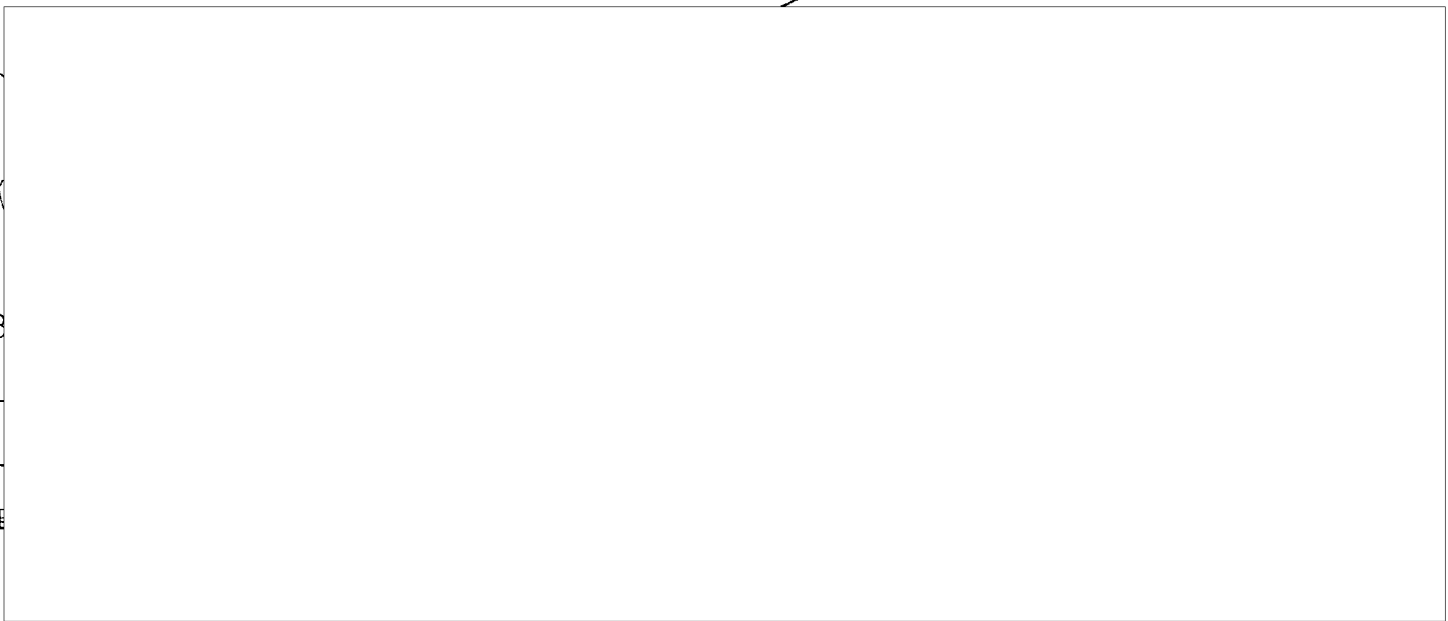
OF SEA TARGET CAPABILITY OF POPPY

Norwegian sea soviet sea exercise 23 to 29 August 1966:

PARTICIPANTS = 1 Light Cruiser, 2 KRUPNY, 2 KOTLIN & 1 Oiler (KAZBEK)

The following are the results from the routine of
RESULTS WITH NO SPECIAL TAKING: RESULTS ARE FROM 25 ORBITS using L, S, & X band collectors:

- 23 August =
- 24 August =
- 25 August =
- 26 Aug = 8
- 27 August = 1
- 28 August = 1
- 29 August = 24



*705 has provided estimates of this capability by improved
Sensitivity in X-band & has recalled numerous intercepts on
and*

*1115 has extended this capability by improved sensitivity
in X-BAND producing many intercepts on*

CONTROL SYSTEM ONLY

~~SECRET~~ [redacted]

MAJOR ASPECTS OF CONTEMPORARY COLLECTION SYSTEM

1. ~~RECEIVING SYSTEMS~~ = Solid State Receiver at [redacted]
~~Adaptive Thresholding system~~ and " " " " " " " " " " " "

2. Recording Systems * DOUBLE BANDWIDTH FM TYPE RECORDING AT ALL SITES.

3. TIMING SYSTEM = accurate to one part in 10¹⁰th

4. ANTENNA SYSTEM * Azimuth and Elevation control available at [redacted]

5. RECEIVING SYSTEMS MOVED INDOORS AT [redacted]

6. SYSTEM CALIBRATION UNITS INSTALLED AT [redacted]

7. FIELD DIGITIZER AND COMPUTER AT [redacted]

8. QUALITY CONTROL ANALYSIS SYSTEMS AT [redacted]

→ 8

~~SECRET~~ [redacted]

HANDLE VIA
SYSTEM
CONTROL SYSTEM ONLY

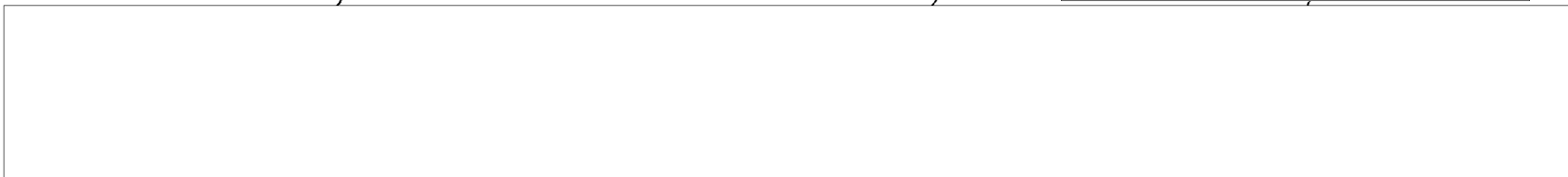
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CAP*
ALERT/ABILITY POTENTIAL WITHIN  COMPUTERIZED SYSTEM....

- L
1.  against as many as 10 ABM significant locations now possible.
 2. With the installation of the high-speed line printer an operator can appraise the activity versus frequency seen at any of these 10 sites and determine the targets of opportunity.
 3. The MOST POWERFUL SORT TOOL AVAILABLE AT THIS TIME IS THIS 

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HANDLE VIA
BYEMAN
CONTROL SYSTEM ONLY

SIGNIFICANT ACCOMPLISHMENTS OF POPPY

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[redacted]

¹/₂ L 7 August 1961. Intercepted a signal the [redacted] ~~xxxxxx month when xxxxxxxxx and~~

¹/₂ 2. Mission 7103 and 7104 provided the first indication of the [redacted] used in the [redacted]

¹/₂ 3. Mission 7103 ³ because of its lower sensitivity ^{WAS} ~~has been~~ responsible for the definition of the [redacted]

¹/₂ 4. Mission 7104 data disclosed ^{on 29 July 1966 for the first time,} the use of [redacted] ~~on 29 July 1966~~ at Gorkiy

¹/₂ 5. POPPY Exclusive = [redacted] until July 1967.

HANDLE WITH
EXTREME CARE
CONTROL SYSTEM ONLY

[redacted]