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To: Dir Program C

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FILE NO.

**SUBJECT**

Budget Submission for Missions 7106, 7107,   
and "Augmentation of Program C for Ocean Surveillance"

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## NAVAL RESEARCH LABORATORY

WASHINGTON, D.C. 20390

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22 April 1971

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## MEMORANDUM FOR DIRECTOR PROGRAM C

Subj: Budget Submission for Missions 7106, 7107 [ ] and "Augmentation of Program C for Ocean Surveillance"

Ref: (a) DNRO memo for Dir Program C of 10 Jun 70, BYE-12883-70  
(b) Dir Program C memo for DNRO of 17 Aug 70, BYE-66387-70  
(c) DNRO memo for Dir Program C of 13 Oct 70, BYE-13117-70  
(d) DNRO memo for Dir Program C of 17 Dec 70, BYE-13396-70  
(e) DNRO memo for Dir Program C of 11 Feb 71, BYE-12574-71  
(f) CITE COGNAC 58-71 191645Z Apr 71

Encl: (1) Summary of FY-71 Financial Program  
(2) FY-72 Financial Program and FY-73 Budget Estimate  
(3) FY-71, FY-72 and FY-73 Budgetary Summary for the "Augmentation of Program C for Ocean Surveillance"

1. During FY-71 the Naval Research Laboratory (NRL) engaged in several efforts directly associated with the objectives of Program C, POPPY Project. These included (a) Mission 7106, (b) Mission 7107, (c) [ ] and (d) Augmentation of Program C for Ocean Surveillance (hereafter referred to as "Augmentation"). Funding for these efforts has been established by the specific Director of National Reconnaissance Office (DNRO) approvals of references (a), (c), and (d).

2. Enclosure (1) provides the FY-71 financial summary for Missions 7106 and 7107, and "Augmentation."

3. Enclosure (2) contains the FY-72 financial program and the FY-73 budget estimate for Missions 7107 [ ]

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4. Enclosure (3) provides the FY-71, FY-72, and FY-73 costing details and budgetary estimates which are proposed for the "Augmentation" effort.

6. Ground-station capability will be optimized during this period for near

[redacted] processing which can only be utilized effectively when a transponding spacecraft is within the collection horizon. By virtue of orbital mechanics, a single plane collection system will have "holidays" of about one-half day (where the ground-station will be beyond range of the spacecraft).

Utilizing a smaller SCOUT booster to <sup>place</sup> ~~put~~ a single [redacted] <sup>second plane, line</sup> into a ~~time-~~

phased [redacted] orbit would eliminate the "holiday." In addition, this would provide a contingency plan or back-up for Mission 7107.

7. NRL suggests the above "contingency" plan as a means of enhancing the utilization of the collection and processing system at all sites. Furthermore,

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