

23 May 1967

MEMORANDUM

SUBJECT: Preliminary Assessment of Keyhole Mission 1041-1, 10-15 May 1967

1. The initial scan of Mission 1041-1, the first half of a two-package KH-4 operation, revealed only a few significant developments. Clouds hid a number of key targets, including the Chinese nuclear test site at Lop Nor, and the scale of the photography was below average due to a higher-than-normal orbit.
2. Readout of the second half of this mission will begin within the next day or two.

Soviet ICBM Deployment

3. Seventeen of the 25 Soviet ICBM complexes were photographed, though most of the coverage was only partial. Three new small single silos have been found so far.
4. Among the complexes were the first small-silo deployment began in 1964, the only new deployment observed was at Gladkaya, where a new silo completes a sixth group of 10.
5. The other two silos were found at two of the complexes where small-silo construction began in late 1965 and early 1966, Kostroma and Yedrovo. The one at Kostroma marks the beginning of a new group there.

NOTE: This memorandum was prepared by representatives of the Directorate of Intelligence and the Directorate of Science & Technology, with photographic assistance by Central Intelligence Agency/Imagery Analysis Staff and coordination by the Office of National Estimates.

Declassified and Released by the N R C

In Accordance with E. O. 12958

on NOV 26 1997

6. These additions raise the total of known small silos to about 465. The large-silo count remains at 176.

Soviet Naval Developments

7. One of the two Soviet helicopter carriers constructed at Nikolayev has moved down to Sevastapol, presumably for sea trials in the Black Sea. The other remains in the fitting-out basin at Nikolayev.

8. Elsewhere at Nikolayev, work is continuing on Kashin-class guided destroyers and on the conversion of Kotlin-class conventional destroyers into missile ships.

9. Coverage of Leningrad shows that a third Kresta-class missile destroyer has been launched since February. All three are in the water there.

Soviet Defensive Missile Systems

10. A new Tallinn-type defensive missile complex was discovered about 20 miles southwest of Kiev, in an area where deployment had been anticipated. The complex has three launch sites and is oriented in a southwesterly direction. This brings the number of known complexes of this type to 29.

11. Four of the triad electronics facilities in the Moscow ABM system were photographed on this mission. Gradual progress is evident at three of them, while the fourth, located southeast of the city, remains dormant as it has been for several years. None of the more advanced triads where launchers are being emplaced were seen clearly.

12. All of the launch complexes at the Sary Shagan defensive missile test center were covered, but nothing new could be seen in the small-scale photography.

Soviet Missile and Space Facilities

13. Activity at Tyuratam's Launch Complex A suggests that the Soviets are refurbishing the 10-year-old SS-6 launch pad there. The launch deck and service tower appear to have been removed since early April, an operation reminiscent of the recent rehabilitation of Complex B. Both complexes were used to flight test the first-generation SS-6 ICBM. More recently they have been used to launch spacecraft boosted by the SS-6. The Soviets probably intend to retain this reliable booster as a workhorse in their space program for the next several years. It has been used for lunar and interplanetary probes and for orbiting a variety of satellites, both manned and unmanned.

14. The coverage of Tyuratam also revealed that grading is under way for a rail line connecting a new building in Complex A with a building foundation in Complex J, the massive launch facility being built for advanced space missions. The new structure at Complex A has been tentatively labeled as a manned-spacecraft operations building because of its configuration.

China-North Vietnam

15. A search for SAM sites in south China and North Vietnam revealed no new installations. Of the 166 known SAM sites in North Vietnam, only seven were seen in cloud-free photography.

16. Coverage of several airfields in China provided some order-of-battle information but revealed no major developments.