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basic imagery interpretation report

Developments at Chernomorskoye and Feodosiya Missile Test and **Support Facilities (S)**

MISSILE RANGES: NAVAL LAUNCHED FACILITIES BE: Various USSR



WNINTEL

Z-12088/83 RCA-17/0001/83 **AUGUST_1983 Copy** 37



Declassified in Part - Sanitized Copy Approved for Release 2012/01/10 : CIA-RDP84T00171R000201050001-4

ALLATION OR A	CTIVITY NAME		·		COUNTRY
velopmen	ts at Chernomorskoye and	Feodosiya Missi	le Test and Su	pport Facilties	UR
COORDINATES	GEOGRAPHIC COORDINATES	CATEGORY	BE NO.	COMIREX NO.	NIETB NO.
\	See below	See below	See below	See below	See below

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Installation Name	Geographic Coordinates	Category	BE No.	COMIREX No.	NIETB (MRN) No.
Chernomorskoye Missile Test and Evaluation Facility	45-01-16N 035-57-49E				
Feodosiya Naval Missile Support Facility	45-08-09N 035-33-41E				
Feodosiya Naval Missile Test Facility	44-51-15N 035-08-05E				
Feodosiya Torpedo and ASW Weapons Storage Facility	45-00-43N 035-24-24E				
Feodosiya Probable ASW Checkout Facility	45-00-22N 035-23-59E				
Feodosiya Naval Base and Ship Repair Yard	45-01-32N 035-23-36E				

ABSTRACT

1. Soviet installations at Chernomorskoye and at Feodosiya, on the Black Sea coast, support the testing and evaluation of antiship cruise missiles and antisubmarine cruise and ballistic missiles for the Soviet Navy. An understanding of activity at each facility assists in determining weapon program start/stop dates, program problems, weapon system capabilities, and initial operational capability (IOC) dates. (S/WN)

This report, which updates NPIC report	ort Z-14628/82,1 describes missile testing activities a
the Chernomorskoye Missile Test and Evaluati	on Facility and at the various Feodosiya missile test
and support facilities as derived from imagei	ry of It also
provides the initial description of testing and c	perational activity at Feodosiya Naval Base and Ship
Repair Yard from	The report contains a location map and 14
annotated photographs. (S/WN)	

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INTRODUCTION

3. The facilities at Chernomorskoye (Figure 1) have been used in the land-based testing of relatively short-range antiship cruise missiles, most recently the SS-NX-22 (BL-09). Land-based launch facilities at Feodosiya have been used to test antisubmarine warfare (ASW) weaponry. The naval base at Feodosiya and the associated storage facilities support at-sea tests of antiship cruise missile, ASW weapons, and surface-to-air missiles (SAM). Significant observations and activities through imagery included:

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- the start and completion of the at-sea test phase of the SS-NX-22 program at Feodosiya;
- support for at-sea testing of the SS-NX-22 at Feodosiya;
- probable missile unloading offshore;
- the presence of resolution targets at Feodosiya;
- the arrival of Juliett-class cruise missile attack submarines (SSG) in the Black Sea; and
- the arrival at Feodosiya of a modified Romeo-class attack submarine (SS) that may be the test-bed for a new weapon system. (S/WN)

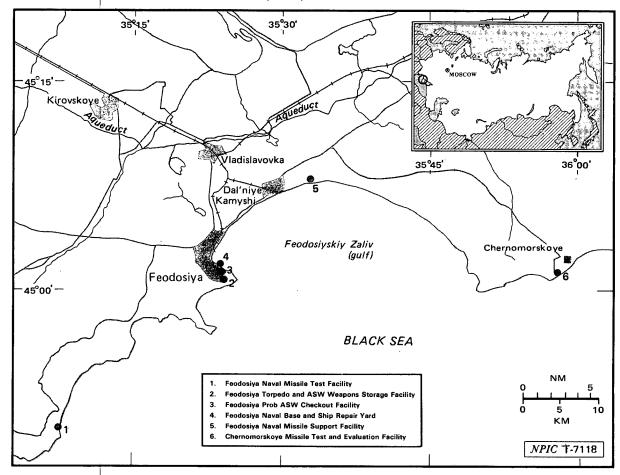


FIGURE 1. NAVAL MISSILE TEST-RELATED FACILITIES AT CHERNOMORSKOYE AND FEODOSIYA, USSR

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BASIC DESCRIPTION

Chernomorskoye Missile Test and Evaluation Facility

Recent Activities

4. This facility has been used since the late 1950s for testing antiship cruise missiles. Two of the launch areas (A and C) have been incorporated into the

Launch Area B is currently the only part of the facility capable of launching test missiles and was recently involved in the testing of the SS-NX-22. Previously it was used in the SS-N-9 antiship cruise-missile test program. No activity has occurred

in the launch area since the end of the landbased test phase of the SS-NX-22 program in April 1982. (S/WN)

Construction Activity

5. Two new fence-secured installations are under construction west of Launch Area D where LA-17 drones were previously launched (Figures 2 and 3). The function of these installations is not known. However, buildings under construction at the installation nearest to the launch area (Figure 2) appear to be for instrumentation: these include one three-story cinetheodolite building and a possible optical

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Feodosiya Naval Base and Ship Repair Yard 6. This facility is used as the staging area for the at-sea testing of cruise missiles, ASW weapons, and naval SAMs. In addition to the at-sea test-bed vessels normally at the facility, major combatants involved in the testing of their own systems are routinely observed at the base or anchored in the roadstead. (S/WN) Cruise Missile Test Activity 7. SS-NX-22 Test Activity. The Soviet Navy's only Tarantul-II guided-missile patrol combatant (PGG), the SS-NX-22 test-bed, arrived at Feodosiya between and	Ship Repair Yard 6. This facility is used as the staging area for the at-sea testing of cruise missiles, ASW weapons, and naval SAMs. In addition to the at-sea test-bed vessels normally at the facility, major combatants involved in the testing of their own systems are routinely observed at the base or anchored in the roadstead. (S/WN) Cruise Missile Test Activity 7. SS-NX-22 Test Activity. The Soviet Navy's only Tarantul-II guided-missile patrol combatant (PGG), the SS-NX-22 test-bed, arrived at Feodosiya between the ship was the ship was the pair of the stage that the base. On the Tarantul-II departed the base. On the Tarantul-II departed the base. On the Tarantul-II departed the base. On the Staget barge had departed the base. This type of target barge was used in both the land-based and the at-sea phases of the SS-NX-22 test program. Both the Tarantul-II and the target barge had returned by (S/WN) 8. SS-NX-22 activity was again observed in January 1982. On a probable loading tray was at the portside launch tubes on the Tarantul-II. The ship departed Feodosiya between for unidentified repair work and except for a brief period at the end of March, remained there throughout the rest of the	shelter or radome. The facilities may be re- lated either to missile testing or to activity at (S/WN)	cruise-missile test preparations were underway (Figure 4). An SS-NX-22 loading tray was protruding from one of the starboard tubes, and
Ship Repair Yard 6. This facility is used as the staging area for the at-sea testing of cruise missiles, ASW weapons, and naval SAMs. In addition to the at-sea test-bed vessels normally at the facility, major combatants involved in the testing of their own systems are routinely observed at the base or anchored in the roadstead. (S/WN) Cruise Missile Test Activity 7. SS-NX-22 Test Activity. The Soviet Navy's only Tarantul-II guided-missile patrol combatant (PGG), the SS-NX-22 test-bed, arrived at Feodosiya between the staging area target barge had departed the base. This type of target barge was used in both the land-based and the at-sea phases of the SS-NX-22 test program. Both the Tarantul-II and the target barge had returned by (S/WN) 8. SS-NX-22 activity was again observed in January 1982. On a probable loading tray was at the portside launch tubes on the Tarantul-II. The ship departed Feodosiya between for unidentified repair work and, except for a brief period at the end of March, remained there throughout the rest of the	Ship Repair Yard 6. This facility is used as the staging area for the at-sea testing of cruise missiles, ASW weapons, and naval SAMs. In addition to the at-sea test-bed vessels normally at the facility, major combatants involved in the testing of their own systems are routinely observed at the base or anchored in the roadstead. (S/WN) Cruise Missile Test Activity 7. SS-NX-22 Test Activity. The Soviet Navy's only Tarantul-II guided-missile patrol combatant (PGG), the SS-NX-22 test-bed, arrived at Feodosiya between the staging area target barge had departed the base. This type of target barge was used in both the land-based and the at-sea phases of the SS-NX-22 test program. Both the Tarantul-II and the target barge had returned by (S/WN) 8. SS-NX-22 activity was again observed in January 1982. On a probable loading tray was at the portside launch tubes on the Tarantul-II. The ship departed Feodosiya between for unidentified repair work and, except for a brief period at the end of March, remained there throughout the rest of the		an SS-NX-22 shipping container was on the
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9. The lead unit of the Sovremennyy-
class guided-missile destroyer (DDG) arrived at
Feodosiya and was involved in SS-NX-22-re-
lated activity in May 1982. On the ship was alongside a floating crane in the roadstead
was alongside a floating crane in the roadstead
(Figure 5), and a missile transfer operation was
underway: a missile loading tray was in front
of the starboard launch tubes, and a missile
canister was in front of the port launch tubes.
This activity probably involved the removal of
an inoperative or malfunctioned missile. The
fact that the offloading of the missile took
place in the roadstead suggests that the Soviets
considered the operation to be extremely
hazardous, since all other missile-related activities to be a least state of the st
ities take place routinely within the base,
where warships as large as the Sovremennyy-
class DDG can be and have been accommo-
dated. If the vessel were there to load a
missile, it could have been done within the
base. This conclusion is further supported by
the fact that Sovremennyy had been involved
in SS-NX-22 loading activitiy just before this at
Sevastopol Naval Missile Support and Major
Ship Facility indicating that
Ship Facility indicating that this ship was staging out of Sevastopol for
weapon-system testing. By this unu-
sual missile offloading activity had ended.
(S/WN)

10. SS-NX-22 activity involving the Tarantul-II was again underway on (Figure 6), when an SS-NX-22 shipping container was suspended from a crane over the port side of the vessel forward of the missile tubes. Because the SS-NX-22 loading tray was not being used, an actual loading was not confirmed. (S/WN)

11. An SS-NX-22 test may have occurred in early September. A 64-meter-class target barge that had been fitting out in the main base area on was seen on imagery in the target barge storage area showing obvious damage (Figure 7). During this same period the Tarantul-II had changed positions, suggesting that it may have departed and returned. The condition of the barge and move-

ment of the PGG strongly suggest that an at-sea SS-NX-22 test had occurred. (S/WN)

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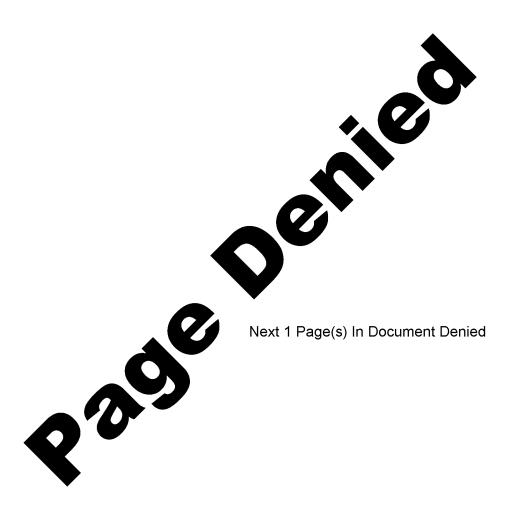
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12. The Tarantul-II departed Feodosiya
between During No-
vember it received minor repairs in the float-
ing drydock at Balaklava Submarine Base and
Ship Repair Yard and on
was present at the Sevastopol
Offshore Defense Force Base
an operating base for patrol craft. The depar-
ture of the Tarantul-II closely coincided with
the removal of SS-NX-22 support equipment
from Feodosiya, which was gone by Decem-
ber. These two events and the ship's deploy-
ment to an operating base suggest that the at-
sea test program might have ended. However,
on the Tarantul-II was once
again at Feodosiya, and an SS-NX-22 crate was
on the quay. The vessel had departed by
and no SS-NX-22 support equipment
was observed at the base. (S/WN)

a damaged 107-meter-class target barge was in the target barge storage area along the breakwater (Figure 8). The barge, which arrived after was not one of those normally seen at the base, and was removed by This class of target barge had not been associated with the SS-NX-22 test program, which was the only antiship cruise missile test program active at that time at Feodosiya. (S/WN)

14. The barge was probably damaged in testing an operational cruise missile, possibly the SS-N-12, from a combatant undergoing weapon system testing. This judgment is based on the coincidental movement during this same period, that is, in late November or early December, of a 107-meter-class target barge from the storage area at Sevastopol Naval Base Streletskaya This barge was not returned to the base. Target barges from Streletskaya are normally used to test weapon systems on combatants during weapon system testing in the Sevastopol area. (S/WN)

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15. Either the 445F guided-missile cruiser (CG) or the Kiev-class guided-missile aircraft carrier (CVHG) "Novorossiysk", both of which are equipped with the SS-N-12, could have been involved in this test. Although the Novorossiysk was anchored in the roadstead off	—On pre/post exercise activity was observed: a Bravo training submarine (SST) was maneuvering within the base, and one modified Romeo SS, one Potok AGE, and a Bentos submersible were in the roadstead.	25 X 1
Sevastopol on this ship is not considered a likely candidate for this launch, since no weapons transfer activity was associated with it. Such activity was frequently observed involving the 445F CG. In addition, the	—Ona large exercise was probably underway. Both modified Romeo SS, one Grisha corvette (FFL), and two Potok AGE had departed; and	25 X 1
and was not observed during the period of the test. In late March 1983, the 445F CG was	one Whiskey SS, one Bravo SST, and one Petya-I (torpedo trials variant) FFL had left the base and were in the roadstead. (S/WN)	'25X1 25X1
in the roadstead off Feodosiya. Therefore, although a positive association between an SSN-12 launch and the 445F CG cannot be made from imagery, it would be a logical assumption	18. Light-Banded Submarines. On a Whiskey/Romeo SS with two wide, light-toned bands around the hull, one forward and one aft of the sail, was in the	[₹] 25X1 25X1
that this new ship, completing sea trials, was the launch platform. (S/WN)	submarine berthing area. On a Romeo SS with two light bands (both forward of the sail) was in the same area (Figure 10). The reason for or function of these bands is	25X1
16. Possible New ASW Weapons Test Program. A modified Romeo-class SS arrived at Feodosiya in early 1982. Like the other modi- fied Romeo SS at Feodosiya, this submarine has an enlarged upper bow (Figure 9). This modification had been performed at Sevasto-	unknown. Although they would make the submarine more visible underwater, no ASW sensors rely on detection in the visible spectrum. Because the bands were not observed on any other occasion and were positioned differently on the hull on these two occasions, they are probably removable. (S/WN)	
pol Shipyard Sevmorzavod 497. The first modified Romeo SS is believed to be the test bed for the SS-NX-16 torpedo-tube - launched ASW missile. The similarity in appearance between the two submarines suggests that the second unit will serve either as an additional test had for the SS NX 16 area the test had for	19. Romeo SS Modification. One Romeo SS observed at Feodosiya has an upper rudder (Figure 9), which is normally not found on this class submarine. The Chinese Ming-class SS, which is a modification of the Romeo SS, also has an upper rudder. (S/WN)	١
test-bed for the SS-NX-16 or as the test-bed for a new weapon similar in size to the SS-NX-16. (S/WN) 17. Torpedo/ASW Exercises. Evidence of relatively large-scale exercises was observed three times:	20. SAM-Related Activity. The Grisha-IV FFL, probable test-bed for the Udaloy SAM system, ² was at Feodosiya Naval Base and Ship Repair Yard during the reporting period (Figure 11). No weapons-related activity was observed around the vessel. (S/WN)	•
—Between	21. Shipborne Resolution Targets. On	25 X 1
one Whiskey (twin-cylinder) cruise-missile attack submarine (SSG), one modified Ro-	two resolution targets were seen on an ocean tug at Feodosiya (Figure 12). The tug,	25X1
meo SS, two Romeo SS, and one Potok tor- pedo trials ship (AGE) departed Feodosiya.	which arrived at Feodosiya between displayed both a CORN-type and	25 X 1 25 X 1

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		25X1
FIGURE 12. RESOLUTION	N TARGETS, FEODOSIYA	
a Seimen's-type resolution target. The pres-	was observed at Balaklava; it, too, was probably	
ence of these targets suggests that the Soviets	transferred via the inland waterway. The first	
were monitoring the capabilities of one of	Juliett SSG was subsequently transferred to Balaklava Submarine Base and Ship Repair Yard	
their own reconnaissance systems. (S/WN)	and then to Sevastopol Shipyard	25 X 1
Operational Activity	Sevmorzavod 497 for repair/overhaul (January	
22. Cruise-Missile Submarine (SSG) Ac-	1982). (S/WN)	
tivity. Activity at Feodosiya in September 1981	24. Between	25 X 1
and at Feodosiya and Sevastopol in November 1982 indicated that the cruise-missile subma-	the Whiskey (twin cylinder) SSG normally	
rine force in the Black Sea is being upgraded.	berthed at Feodosiya Naval Base and Ship Repair Yard, was transferred to Sevastopol	
(S/WN)	Breaker Yard and by	25 X 1

the Tsaplya air-cushion medium landing craft (LCMA), formerly YUZ-D,

25. Air-Cushion Vehicle Activity. On

was being scrapped. The scrapping of this

submarine (one of only two in the Black Sea),

combined with the arrival of the two Juliett

SSGs, indicates an upgrading of the cruise-

missile attack submarine capabilities of the

Black Sea fleet. (S/WN)

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a Juliett SSG,

which carries four SS-N-3 antiship cruise mis-

siles-twice as many as the Whiskey twin-cylin-

der class—was in the roadstead off Feodosiya.

This was the first observed deployment of this

class submarine to the Black Sea Fleet. It was

probably transferred from the Northern Fleet through the inland waterway system. A drop-

stern transporter dock was also in the road-

stead. In November 1982, a second Juliett SSG



was observed at Feodosiy	a Naval Base and Ship
Repair Yard (Figure 13).	
constructed at Feodosiy	a Shipyard Yuznaya
	seven nautical miles
northeast of the naval ba	se. Also on
the GUS air-cushio	n personnel landing
craft (LCPA), which had	been undergoing re-
pair at the base, was being	g lifted onto the deck
of a river freighter for the	ransport through the
inland waterway. (S/WN)	. 0
C Tue Labard I CA	4.4

- 26. Two Lebed LCMA were observed on the quay on numerous occasions. (S/WN)
- 27. **Construction Activity.** During the period of this report, a new administration or barracks building was constructed at the base (Figure 11). (S/WN)

Feodosiya Naval Missile Support Facility

28. This installation provides storage and checkout facilities for antiship cruise missiles and SAMs tested at Feodosiya and Chernomorskoye. During the reporting period, SA-N-6 activity increased, and activities continued at an assembly/checkout building that is associated with the SS-NX-22 test program. (S/WN)

SA-N-6 Activity

- 29. The area around the assembly/checkout building for the SA-N-6 was resurfaced in late 1981. SA-N-6 activity resumed by September 1982. (S/WN)
- 30. In September 1982, SA-N-6 canisters and canister transporters were in front of a bunker in the storage area (Figure 14). On an empty SA-N-6 transporter was leaving the facility, an indication that the SA-N-6 canisters in the facility were newly delivered. Between 20 and 30 canisters were observed. Empty SA-N-6 transporters were at the assembly/checkout building on several occasions, indicating that the building was again being used. (S/WN)

Feodosiya Naval Missile Test Facility

- 31. This facility was used for land-based testing of the SS-N-14 ASW weapon, the SUW-N-1 ASW rocket, and probably a small ASW rocket, similar to the SUW-N-1, which was not deployed. No activity related to any missile test was observed. No missile canisters were present, and no vehicular activity was noted. (S/WN)
- 32. At launch pad A, the SS-N-14 launch area, the missile dolly was removed from its rail-mounted carriage on several occasions. In the support area, one van was placed near the administration building nearest the launch areas. Construction continued at a very slow pace on the arch-roofed building in the northeast corner of the support area. (S/WN)
- 33. This minor activity in the launch area and the continued presence of vans in the support area (including an END TRAY meteorological radar) indicated that this facility was still occupied. However, the slow pace of construction on the arch-roofed building in the last few years (it has been under construction since 1975) and the absence of vehicular activity indicates that the facility does not have a major role in testing at this time. (S/WN)

Feodosiya Torpedo and ASW Weapons Storage Facility

34. This facility stores torpedos and ASW weapons used in tests staged from Feodosiya Naval Base and Ship Repair Yard. It probably also serves as a holding area for empty canisters and crates awaiting return to production facilities. (S/WN)

SS-N-14 Activity

35. The number of SS-N-14 gradually increased from seven to twelve by (S/WN)

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20 The fluctuation in the number of CC	•
of empty canisters to production facilities and	
the arrival of new missiles. (S/WN)	
Feodosiya Probable ASW	
Checkout Facility	
•	
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naval base. Because of this facility's function,	207
	Feodosiya Probable ASW Checkout Facility 39. This installation provides assembly and checkout facilities for ASW weapons before they are loaded on vessels at the adjacent

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25X1 canisters and crates stored there probably all contain weapons for upcoming tests. Empty canisters awaiting transshipment would also By the end 25X1 be found in the weapons storage facility. of the reporting period SS-N-15 and SS-NX-16 (S/WN)canisters at this facility had been arranged in more orderly stacks, 25X1 SS-N-14 Activity (Figure 15). (S/WN) 25X1 40. Changes in the number of SS-N-14 42. Throughout the reporting period the crates indicate that tests relating to this system number of SS-N-15 canisters remained at apoccurred during the reporting period. In Auproximately 15. The number of SS-NX-16 cangust 1982, three crates were present and in isters, however, appears to have fluctuated October five crates were present. By 25X1 during the reporting period. In August 1982 the number of SS-N-14 crates had decreased the number of SS-NX-16 canisters was 16 to 18. to two, which suggests three tests occurred. By October the number of canisters had risen (S/WN) to approximately 25. By the num-25X1 ber had decreased to 18. This change suggests SS-N-15 and SS-NX-16 Activity that seven SS-NX-16 tests may have occurred 25X1 between October 1982 and April 1983. (S/WN) **REFERENCES IMAGERY** 25X1 the information All applicable satellite imagery acquired from cutoff date, was used in the preparation of this report. (S/WN) **MAPS/CHARTS** DMA. US Air Target Chart, Series 200, Sheet 0249-16, Scale 1:200,000. **DOCUMENTS** 1. NPIC. Z-14628/82, RCA-17/0003/82, Developments at Chernomorskoye and Feodosiya Missile Test and Support Facilities (S) Nov 82 25X1 NPIC. Z-14606/82, IAR-0084/82, New Soviet Naval SAM System (S) Sep 82 25X1 25X1 **REQUIREMENT** COMIREX R17 Project 543058R Comments and queries regarding this report are welcome. They may be directed to Soviet Strategic Forces Division, Imagery Exploitation Group, NPIC,

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