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imagery analysis report

Worldwide Arms Shipments



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WORLDWIDE ARMS SHIPMENTS

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INTRODUCTION

1. This report compiles information on worldwide arms shipments observed on imagery acquired between [redacted] Both the principal arms exporters and the Third World countries that received these arms are included. Information in this report describes the minimum level of arms transferred to Third World countries. Lack of adequate coverage of several installations that both ship and receive arms hampered analysis and precluded a complete imagery-derived assessment of arms transfers. Information from this report has been included in the all-source arms publication *Foreign Military Assistance (FOMA)*, that covers the fourth quarter of 1984. *FOMA* is published by the Defense Intelligence Information Center. (S/WN)

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2. This report is composed primarily of tables with introductory and supporting text. The first section of the report covers the major exporting countries: the Soviet Union, Warsaw Pact countries, the People's Republic of China, and North Korea. The second section of the report deals with the receiving and transshipping countries in the Third World. (S/WN)

3. This report includes a location map (Figure 1) of the export and import facilities where transshipment activity was observed during the reporting period. It also includes three tables of shipments from the major arms exporters and an appendix listing in detail all sightings of arms deliveries during the fourth quarter of 1984. Two annotated photographs showing recent construction at the major Soviet arms transshipment port, Nikolayev Port Facilities South ([redacted]) are also included. (S/WN)

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DISCUSSION

Arms Exporting Countries

Exports from the Soviet Union

4. Approximately 90 percent of Soviet arms exported to the Third World came from Nikolayev Port Facilities South. A total of 1,635 major pieces of equipment were shipped during the fourth quarter of 1984. This total is 23 percent less than the number of arms observed exported from Nikolayev in the third quarter of 1984. This reduction is at least partially attributable to a substantial decrease in the amount of usable imagery acquired (only 15 images). (S/WN)

5. Despite this limited coverage, significant increases were observed in several major categories. Armor exports increased from 156 to 294 pieces, including a major shipment of 178 medium tanks between [redacted] Fighter aircraft exports increased from 87 to 173. (S/WN)

6. At least 46 arms carriers visited Nikolayev during the quarter, including the following, listed by class:

Slavyansk	12
Kapitan Kushnarenko	8
Leninskiy Komsomol	7
Bezhitza/Poltava	6
Akademik Tupolev	5
Kommunist	3
Pula	3
Murom	2

Table A1 lists equipment shipments from Nikolayev observed on usable imagery acquired throughout the quarter. (S/WN)

7. In addition to exporting arms this quarter, Nikolayev has been undergoing a major expansion of the port facilities. First observed in April 1983, this expansion has continued at a rapid rate. By December 1984, two new basins were nearly complete, with only the quay walls and storage areas still under construction. (Figure 2 shows the general layout at Nikolayev. Figure 3 shows the expanded facilities.) This expansion will increase port efficiency by eliminating delays in berthing, thereby decreasing ship turnaround time. Additionally, the increased quayage provided by the new basins will permit Nikolayev to handle 15 merchant ships (merships) simultaneously, instead of the present five, thereby tripling the arms exporting capacity. At the present rate of construction, the new north basin will be completed in the spring of 1985, and the new south basin will be completed in mid-1985. (S/WN)

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8. Soviet arms also were exported this quarter from Vladivostok Port Facilities [redacted] in the Far East and from Novorossiysk Port Complex [redacted] on the Black Sea. The most significant shipment from Vladivostok was of 14 FLOGGER aircraft shipped to Soviet forces in Vietnam. The aircraft were observed in Vietnam on [redacted] Table A2 lists shipments from Vladivostok observed on imagery. (S/WN)

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9. One arms shipment of ten HIP fuselage crates was observed at Novorossiysk on [redacted] (S/WN)

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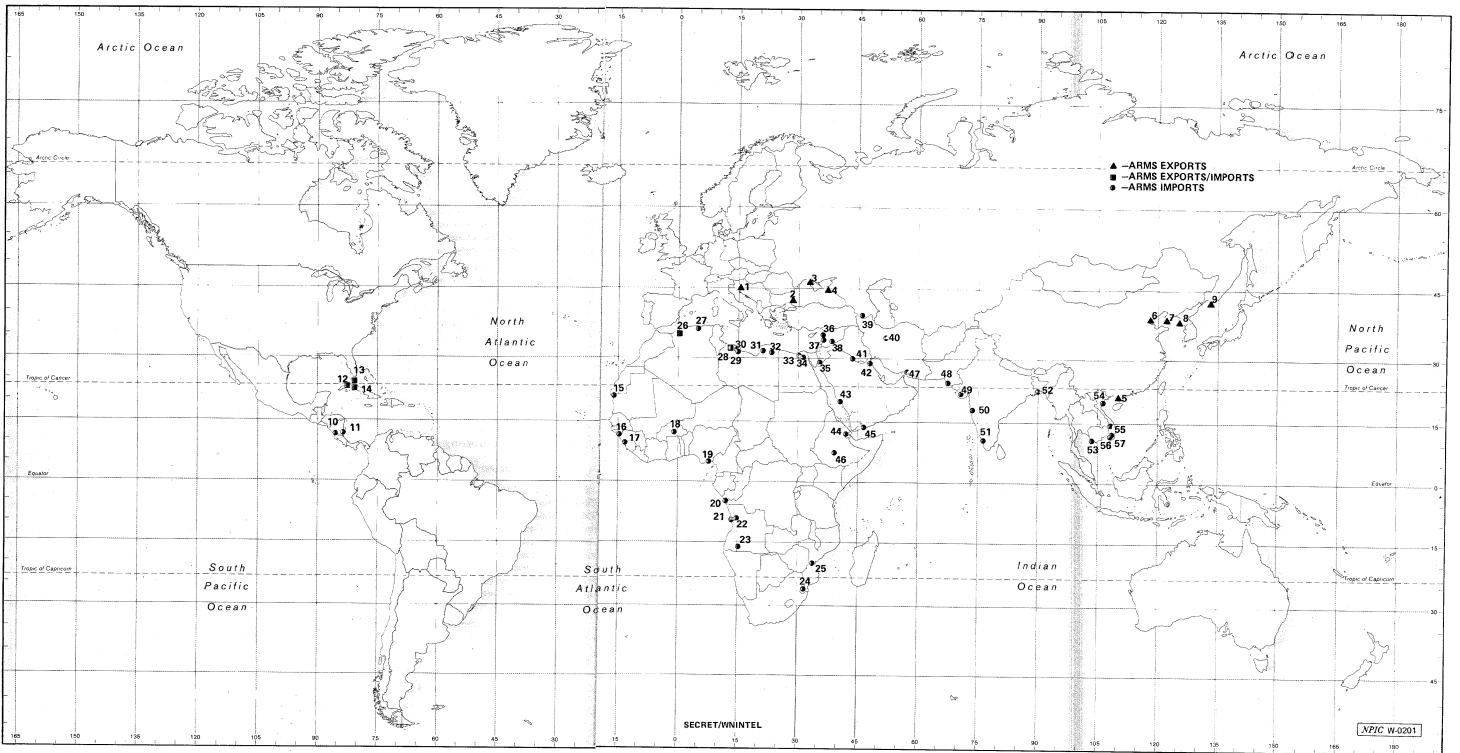


FIGURE 1. LOCATIONS OF ARMS EXPORT AND IMPORT ACTIVITY.

- | | | | | |
|--|--|---|--|--|
| 1 Ploce Port Facilities, Yugoslavia | 8 Songnim Port Facilities, N. Korea | 21 Luanda Port Facilities, Angola | 34 Al Iskandariyah Port Facility, Egypt | 47 Bandar Abbas Port Facility, Iran |
| 2 Burgas Port Facilities, Bulgaria | 9 Vladivostok Port Facilities, USSR | 22 Luanda Airfield, Angola | 35 Al Anqabah Port Facilities South, Jordan | 48 Karachi Ord and OM Depot E. Pakistan |
| 3 Nikolayev Port Facilities South, USSR | 10 Corinto Port Facilities, Nicaragua | 23 Lubango Airfield, Angola | 36 Al Ladhayyah Port Facilities, Syria | 49 Jamnagar Airfield, India |
| 4 Novorossiysk Port Complex, USSR | 11 El Bluff Naval and Port Facilities, Nicaragua | 24 Moputu Port Facility, Mozambique | 37 Tanus Port Facilities, Syria | 50 Bombay Port Facilities, India |
| 5 Chikan Port Facility (Diasohuntsun), China | 12 Mariel Port Facilities, Cuba | 25 Beira Port Facility, Mozambique | 38 Tyias Airfield, Syria | 51 Cochin Port Facilities, India |
| 6 Tanguu Port Facilities, China | 13 La Habana Port Facilities, Cuba | 26 Mers el Kebir Nvl Base & Shipyard, Algeria | 39 Jofra Railroad Station and Yards, Iran | 52 Chattagong Port Facilities, Bangladesh |
| 7 Luda Port Facilities, China | 14 Cienfuegos Port Facilities, Cuba | 27 Alger Port Facility, Algeria | 40 Tehran/Meshabad Internat'l Airfield, Iran | 53 Kompong Saom Port Facilities, Kampuchea |
| | 15 Nonadhibun Port Facilities, Mauritania | 28 Tarabulus Port Facilities, Libya | 41 Nukhaya Transshipment Point, Iraq | 54 Hai Phong Port Fac East (Chau Voi), Vietnam |
| | 16 Bissau Port Facilities, Guinea-Bissau | 29 Umm Altiqah Airfield, Libya | 42 Ash Shuaybah Port Facility, Kuwait | 55 Da Nang Naval Base, Vietnam |
| | 17 Comradny Port Facility, Bangladesh | 30 Misurata Port, Libya | 43 Qadimah Port Facility, Saudi Arabia | 56 Cam Ranh Airfield, Vietnam |
| | 18 Ouagadougou Airfield, Borkina-Faso | 31 Benghazi Port and Naval Facilities, Libya | 44 Asela Port Facility, Ethiopia | 57 Cam Ranh Port Fac and Nvl Base, Vietnam |
| | 19 Makurdi Airfield, Nigeria | 32 Tubruq Port Facilities, Libya | 45 Aden Port Facility, South Yemen | |
| | 20 Pointe Nere Port Facility, Congo | 33 Al Iskandariyah Naval Base, Egypt | 46 Harar Meda Airfield, Ethiopia | |

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Exports from Warsaw Pact Countries

10. Arms transfer activity was observed this quarter at Burgas Port Complex [redacted], Bulgaria, and at Ploce Port Facilities [redacted], Yugoslavia. Of particular interest was the arrival of five L-39 ALBATROSS aircraft and two HOPLITE helicopters at Burgas in late August 1984. These aircraft remained at the port during the fourth quarter, and it is suspected that they will eventually be transferred to Central America. Additional shipments from Burgas identified included: 28 medium tanks, three computer vans, two ODD PAIR radar, and one P-4 torpedo boat. (S/WN)

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11. Only one arms shipment was observed from Ploce Port. This shipment consisted of 11 BMP infantry fighting vehicles that were probably produced at Detva Construction Equipment and Armored Vehicle Plant [redacted] Czechoslovakia, and shipped by rail to Ploce for subsequent transshipment to the Third World. (S/WN)

Exports from China and North Korea

12. Sightings of Chinese military equipment exported to Third World countries decreased slightly in the fourth quarter compared to the third quarter. Only 12 arms carriers were observed at Chinese ports: six at Chikan Port Facilities (Diao-shuntsun; [redacted]), five at Luda Port Facilities ([redacted] and one at Tanggu Port Facilities [redacted]). Three shipments of Chinese military equipment were also identified at Third World receiving ports; however, the ships were not observed leaving China. Table A3 lists shipments from China. (S/WN)

13. In addition, nine of 24 S-70 Sikorsky helicopters shipped from the United States have arrived in China since September. The delivery and subsequent deployment of these helicopters has not been observed on imagery. [redacted]

14. Two arms shipments were observed this quarter from Songnim Port Facilities [redacted] North Korea. Both shipments were probably intended for Iran and included a total of eight 130mm field guns M-46, 16 ZPU-4 antiaircraft heavy machine guns (AAHMGs), seven 57mm field guns, and 22 vehicles/pieces of equipment. (S/WN)

Arms Importing Countries

15. In the Americas, both Cuba and Nicaragua received large military shipments. A major arms delivery to the east coast of Nicaragua occurred with the arrival of a Bulgarian vessel, the Christo Botev, at El Bluff Naval and Port Facilities [redacted]. The first delivery of HIND helicopters to Nicaragua was observed in this shipment, which also included armored vehicles, antiaircraft guns, and electronics equipment. The arrival of the Soviet freighter Bakuriani at Corinto Port Facilities [redacted] Nicaragua, on [redacted] attracted considerable Community

and media attention when it was revealed that FISHBED crates may have been aboard. This was the first arms delivery direct from the Soviet Union to Nicaragua and would have been the first introduction of high-performance jet aircraft to that country. Although no FISHBED crates were offloaded from the Bakuriani, the shipment included two HIND helicopters and four minesweepers. Cuba also exported equipment to Nicaragua, including two minesweepers and one patrol boat. (S/WN)

16. In the Middle East, Egypt received major additions to its naval forces. The first of two Jianghu-class frigates arrived from China. The second is still under construction. A Descubierta-class frigate, Egypt's second, arrived from Spain. In addition, 12 M-60A3 tanks arrived from the United States. [redacted]

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17. In the Persian Gulf area, the major shipments were to the two warring states, Iran and Iraq. While no new major weapons systems were identified being delivered to Iran, numerous shipments of munitions—probable small arms, ammunition, and combat support materiel—arrived steadily throughout the quarter and were offloaded at Bandar Abbas Port Facility Suru [redacted]. Arms deliveries intended for Iraq were observed primarily in foreign ports, particularly Qadimah in Saudi Arabia, Ash Shuaybah in Kuwait, and Al Aqabah in Jordan. From these ports, they were transferred, probably overland, to Iraq. Major deliveries by this method included tanks, armored personnel carriers, field artillery, antiaircraft artillery, STYX missiles from China, and Osa-II missile patrol boats from the Soviet Union. (S/WN)

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18. In North Africa, regular and high-volume shipments and transshipments occurred in Algeria and Libya. In spite of this activity, no significant new equipment was observed. A North Korean freighter was identified unloading military supplies in Mauritania, the first indication of arms trade between those two countries. No arms deliveries were observed at Jolfa Railroad Station and Yards [redacted] a major transshipment point on the Iran-USSR border. Details on these import/export activities are contained in Table A4 in the appendix. (S/WN)

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19. Large shipments of military equipment were also observed throughout Sub-Saharan Africa, particularly in Angola, where components for the SA-2 air defense system were identified for the first time. Angola also received major deliveries of fighter aircraft and HIND helicopters. (S/WN)

20. In Southeast Asia, major arms deliveries were made to Vietnam and to Soviet forces in Vietnam. These deliveries were observed at Cam Ranh Port Facilities and Naval Base [redacted] Da Nang Naval Base [redacted] Hai Phong Port Facility East (Chua Ve; BE [redacted] Cam Ranh Bay Airfield [redacted] and Da Nang Airfield [redacted]. Significant deliveries to Vietnamese forces included the CONE DISH high-speed data relay system, which was deployed to SA-2 and SA-3 surface-to-air missile sites around Hanoi and Haiphong. De-

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Table A4. (continued)

Country	LOCATION OF ARMS SHIPMENT Location	ACTIVITY BE No	Class	ARMS CARRIER Name ²	Flag	EQUIPMENT FIRST OBSERVED	EQUIPMENT IMPORTED AND EXPORTED
Algeria	Mers el Kebir Nvl Base & Hq & Shipyard		Murom	Mezhgore	USSR		No cargo was observed. Five oxidizer storage tanks, 2 THIN SKIN B radar van trucks, 2 heavy equipment trailers, two round-top trailers were reported as deck cargo when the ship left the Black Sea. ⁷ Since the Mezhgore also stopped at Tartus, Syria, [redacted] the cargo has not been attributed to Syria or Algeria at this time.
Libya	Banghazi Port & Nav Fac		K. Kushnarenko	Kapitan Chirkov	USSR		4 FLOGGER Type I fuselage crates; 8 FLOGGER empennage/wing crates; 8 kite-braced, aircraft-associated crates; 1 avionics calibration van, 2 fuel storage tanks
Libya	Tubruq Port & Nvl Facilities		Slavyansk-Mod A	Gen Vladimir Zaimov	USSR		3 probable airfield-related trucks; 1 unidentified trailer
Libya	Tarabulus Port Facilities		K. Kushnarenko	Kapitan Chirkov	USSR		10 SA-2 canisters and 30 oxidizer containers observed; [redacted]
Libya	Tarabulus Port Facilities		Unid Italian (prob)	—	Italy		6 Palmaria 155mm self-propelled howitzers observed; 11 howitzers reported in Tripoli between [redacted]
Libya	Banghazi Port & Nvl Fac		Slavyansk-Mod A	Gen Vladimir Zaimov	USSR		4 FLOGGER fuselage crates; 8 FLOGGER empennage/wing crates; 8 kite-braced, aircraft-associated crates; 1 self-loading crane (KRAZ-255B)
Libya	Banghazi Port & Nvl Fac		Slavyansk-Mod A	Professor Buznik	USSR		3 FLOGGER Type I fuselage crates; 6 FLOGGER empennage/wing crates
Libya	Tarabulus Port Facilities		Slavyansk-Mod A	Professor Buznik	USSR		5 SCUD canisters, 19 SA-3 missile canisters, 4 FLAT FACE radar trucks, 5 FLAT FACE operations vans, 8 APA-5 trucks observed; 80 SA-3 canisters delivered. ⁷
Libya	Tarabulus Port Facilities		Akademik Tupolev	Akademik Tupolev	USSR		10 SA-2/-3 canister transporters, 41 SA-3 missile transloaders, 2 SA 8 missile transloaders, 1 LOW BLOW radar, 1 FLAT FACE radar, 2 R-401 radio sets
Libya	Tarabulus Port Facilities		Unid Italian (prob)	—	Italy		Crates (probable ammunition)
Libya	Tubruq Port & Nvl Facilities		Slavyansk-Mod A	Komandarm Matveyev	USSR		13 stake trucks, 2 generator trailers, 2 truck-mounted cranes, 1 probable airfield support truck
Libya	Tarabulus Port Facilities		Mitsui-Concord 18-Mod B	Tribels	Greece		<i>Munitions exported.</i> The ship arrived at Barcelona, Spain, with 1,400 metric tons of munitions. ⁶
Libya	Tarabulus Port Facilities		Slavyansk-Mod A	Komandarm Matveyev	USSR		4 SPOON REST D radar operations vans, 4 SPOON REST D radar mast trucks, 8 SPOON REST D radar generator/antenna trailers, 9 SA-3s, 4-rail missile launchers unloaded; 3 HIND Type III fuselage crates and 2 HIND component crates prepared for return to Soviet Union.
Libya	Tarabulus Port Facilities		Derna	Derna	Libya		Six BM-21 multiple rocket launchers and 11 probable multiple rocket launchers were exported. This ship was observed at Tartus, Syria, on [redacted] but no military transshipment was observed.
Libya	Tarabulus Port Facilities		Unid Italian (prob)	—	Italy		6 Palmaria 155mm self-propelled howitzers
Libya	Umm Atiqah Airfield		COCK	—	—		1 FOXBAT fuselage was observed; however, six additional flights were made, and possibly seven FOXBATS were delivered. ⁷ 8
Libya	Banghazi Port & Nvl Fac		Pula	Aleksandr Gertsen	USSR		3 FLOGGER fuselage crates, 4 FLOGGER component plates
Libya	Tarabulus Port Facilities		Rostok	Rubezhnoye	USSR		4 HIP fuselage crates, 4 HIP rotor crates ²
Libya	Misurata Port		Rostok	Rubezhnoye	USSR		None observed
Libya	Umm Atiqah Airfield		—	—	—		1 FOXBAT was observed; however, delivery not observed. (See above note.) ⁷

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Table A4. (continued)

Country	LOCATION OF ARMS SHIPMENT ACTIVITY Location	BE No	Class	Name ²	Flag	EQUIPMENT FIRST OBSERVED	EQUIPMENT IMPORTED AND EXPORTED
Libya	Tarabulus Port Facilities		Pula	Aleksandr Gertsen	USSR		2 HIND fuselage crates and 2 HIND tail assembly crates exported to the USSR for maintenance
Libya	Tarabulus Port Facilities		Akademik Tupelov	Akademik Tupolev	USSR		13 SA-2 launchers, 2 FAN SONG radar sets, 1 THIN SKIN B radar van, 1 THIN SKIN radar van generator/trailer, 2 LONG TRACKS, 3 BTR-60PUs, 12 flat-top van trucks, 4 round-top van trucks, 1 PMR-3 towed minelayer, 3 minibuses
Mauritania	Nonadhibun Port Facilities		Kolejarz	Mundok-Ho	N Korea		Unidentified military supplies were seen. This was the first N Korean arms carrier observed in Mauritania, and the first indication that N Korea was supplying arms to Mauritania.
REGION V: HORN OF AFRICA							
Ethiopia	Aseb Port Facilities		—	—	USSR		2 HIND HELO fuselage crates, 5 HIP HELO fuselage crates, 10 HIP component crates; equipment marshalled to Aseb Army Barracks North [redacted] Ethiopia
Ethiopia	Aseb Port Facilities		—	—	USSR		4 HIND HELO fuselage crates, eight 130mm field guns M-46; equipment marshalled to Aseb Army Barracks North (BE [redacted] Ethiopia
Ethiopia	Harar Meda Airfield		—	—	Italy		10 SF-260 light-strike aircraft
Somalia	Hargeisa Air Warning Radar Facility		—	—	US		1 AN/TPS-43 3-D tactical radar observed deployed
Somalia	Iscia Baidoa Aflid (Air Warning) Radar		—	—	US		1 AN/TPS-43 3-D tactical radar observed deployed
REGION VI: SUB-SAHARAN AFRICA							
Angola	Luanda Port Facilities		K. Kushnarenko	—	USSR		2 FISHBED fuselage crates and 1 FLOGGER fuselage crate were observed.
Angola	Luanda Port Facilities		El Jigue	—	Cuba		6 pieces of canvas-covered anti-aircraft artillery on deck
Angola	Luanda Airfield		—	—	USSR		5 HIP fuselage crates, 20 HIP component crates
Angola	Luanda Port Facilities		—	—	—		10 GSP heavy amphibious ferries, at least 74 trucks, at least 110 buses
Angola	Luanda Airfield		—	—	USSR		3 additional HIP fuselage crates
Angola	Luanda Airfield		—	—	USSR		1 additional HIP fuselage crate
Angola	Luanda Port Facilities		—	—	—		30 additional buses
Angola	Luanda Port Facilities		—	—	—		40 additional buses
Angola	Luanda Port Facilities		Leninskiy Komsomol	Krasnoye Znamya	USSR		2 GSP heavy amphibious ferries on the quay
Angola	Lubango Airfield		—	—	USSR		12 SA-2 missile transporters, 3 SPOON REST D radar sets, 1 probable FAN SONG radar set
Angola	Luanda Port Facilities		Leninskiy Komsomol	Krasnoye Znamya	USSR		3 FITTER fuselage crates, 3 FITTER wing crates, at least 1 FITTER component crate, and 3 FITTER external fuel tanks were delivered. The crates were observed at Luanda Airfield on [redacted] but were not seen at the port.
Angola	Luanda Port Facilities		Leninskiy Komsomol	Krasnyy Oktyabr	USSR		4 HIND fuselage crates; 4 HIND-associated large component crates, at least 3 HIND-associated small component crates; crates observed at Luanda Airfield on [redacted]

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Table A4. (continued)

LOCATION OF ARMS SHIPMENT ACTIVITY			ARMS CARRIER			EQUIPMENT	EQUIPMENT IMPORTED AND EXPORTED
Country	Location	BE No	Class	Name ²	Flag	FIRST OBSERVED	
Angola	Mocamedes SAM Support Fac		—	—	USSR		6 SA-2 missile transporters
Angola	Luanda Airfield		—	—	USSR		4 HIND fuselage crates; 4 HIND-associated large component crates; at least 3 HIND-associated small component crates; these were the same crates delivered to Luanda Port Facilities on [redacted]
Angola	Mocamedes SAM Support Fac		—	—	USSR		15 SA-2 missile transporters and 3 canister transporters were observed. This equipment may have been delivered by the Leninskiy Komsomol observed at Luanda on [redacted]
Burkina-Faso	Ouagadougou Airfield		—	—	—		3 unidentified aircraft delivered in FISHBED and HIND crates, possibly a FRESCO, and 2 HOUND helicopters
Congo	Pointe Noire Port Facility		Murom	Aleksey Tolstoy	USSR		Thirteen BRDM-2 reconnaissance vehicles were observed at Pointe Noire HQ First Military Zone [redacted] Congo, on [redacted]
Guinea	Conakry Port Facility		Leninskaya Gvardiya	—	USSR		Construction equipment
Guinea-Bissau	Bissau Port Facilities		Leninskiy Komsomol	Khirurg Vishnevski	USSR		6 FISHBEDs observed at the port; they had been shipped to Bipoint Bissau Airfield [redacted] Guinea-Bissau, by [redacted]
Mozambique	Maputo Port Facility		—	—	—		20 armored vehicles (probable delivery)
Mozambique	Beira Port Facility		—	—	—		11 field artillery, probably destined for Mozambique or Zimbabwe
Mozambique	Beira Port Facility		—	—	—		20 armored vehicles (possibly North Korean M1973 APCs) were seen. These were delivered to the port between [redacted] and [redacted]. All had left the port by [redacted] probably enroute to Zimbabwe. ⁹
Nigeria	Makurdi Airfield		—	—	—		Jaguar strike-fighter aircraft were flown in.
REGION VII: Southeast Asia							
Kampuchea	Kompong Saom Port Fac Sihanoukville		Murom	—	USSR		28 medium tanks and 10 BTR-60PB armored personnel carriers were delivered between [redacted]
Kampuchea	Kompong Saom Port Fac Sihanoukville		Kommunist	Zhanna Lyaburb	USSR		The Zhanna Lyaburb departed the Black Sea on [redacted] with deck cargo of ten truck-mounted treadway bridge sections, six DP-125 field kitchens, two flat-top van trucks, one unidentified trailer, one light truck, and eight stake trucks. ⁷ no unloading observed
Vietnam	Various		—	—	—		The CONE DISH high-speed data relay system was introduced to Vietnam during 1984. Although not observed entering the country, the system has been observed this quarter deployed at seven SA-2, nine SA-3, and two early warning radar sites around Haiphong and Hanoi.
Vietnam	Hai Phong Port Fac E (Chua Ve)		Skulptor Konenkov	Skulptor Golubkina	USSR		On [redacted] the ship was observed in port. On [redacted] 42 Type 55 tanks, 40 BRDM-2 armored recovery vehicles, 35 trucks, and 8 R-100 mobile radio stations were present.
Vietnam	Da Nang Naval Base		K Kushnarenko	Vasily Kulik	USSR		At least 15 FISHBED fuselage crates were delivered to the assembly area of Da Nang Airfield [redacted] between [redacted]
Vietnam	Da Nang Naval Base		Stakanovets Kotov	S. Pettrash	USSR		One Soviet-built Turya hydrofoil torpedo boat, the third to be received by Vietnam from USSR, was seen.
Vietnam	Cam Ranh Port Fac & Nvl Base		Norilsk	—	USSR		14 FLOGGER aircraft crates arrived at Cam Ranh Port Facilities and Naval Base on [redacted]. These were delivered to Soviet forces at Cam Ranh Bay Airfield [redacted] in Vietnam. Previous deliveries to Soviet forces at Cam Ranh Bay Airfield this quarter include four BEAR and 16 BADGER aircraft.

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Table A4. (continued)

LOCATION OF ARMS SHIPMENT ACTIVITY			ARMS CARRIER			EQUIPMENT	
Country	Location	BE No	Class	Name ^a	Flag	FIRST OBSERVED	EQUIPMENT IMPORTED AND EXPORTED
Vietnam	Da Nang Naval Base		Murom	Aleksey Tolstoy	USSR		The Aleksey Tolstoy departed the Black Sea with deck cargo of 3 Type III-A, 6 Type III-D, and 2 Type IV-B FISHBED fuselage crates; 4 kite-braced, aircraft-associated crates; and 2 stake trucks. ² This equipment was probably delivered to Da Nang on [redacted]
Vietnam	Cam Ranh Port Fac & Nvl Base		Slavyansk	Severodonetsk	USSR		At least three HIP/HAZE helicopter-associated crates observed as deck cargo on [redacted]
REGION VIII: SOUTH ASIA							
Bangladesh	Chittagong Port Facilities		—	—	—		2 FARMER fuselage shipping containers and 1 FRESCO fuselage shipping container observed; delivery not observed. This equipment also may be enroute back to China for maintenance.
India	Cochin Port Facilities		Pula	—	USSR		14 probable SA-3 canisters
India	Jamnagar Airfield		—	—	—		Three CLINEs observed at Jamnagar Airfield. [redacted]
India	Bombay Port Facilities		Pula	—	USSR		4 FLOGGER fuselage crates, 6 FLOGGER component crates were observed; a Pula-class ship was seen at Cochin Port with 4 FLOGGER fuselage crates and 3 FLOGGER component crates between [redacted]
India	Bombay Port Facilities		Pula	—	USSR		22 BMPs, 14 MT-55 tank-launched bridge sections
India	Jamnagar Airfield		—	—	—		[redacted]
India	Bombay Port Facilities		Leninskaya Gvardia	—	USSR		None observed
India	Jamnagar Airfield		—	—	—		[redacted]
India	Bombay Port Facilities		Slavyansk Mod A	—	USSR		1 HORMONE helicopter fuselage crate; possible equipment in hold
India	Bombay Port Facilities		Slavyansk Mod-A	—	USSR		9 D-30 howitzers
India	Bombay Port Facilities		Slavyansk Mod-A	—	USSR		10 probable ZSU-23/4s, four 130mm field guns M-46
India	Jamnagar Airfield		—	—	—		Three CLINEs observed at Jamnagar Airfield. [redacted]
Pakistan	Karachi Ord & QM Depot E Drigh Road		—	—	—		25 M-198 howitzers (first time in country), 9 M11A2 self-propelled howitzers
Pakistan	Karachi Port Facilities		Prob Chinese mership	—	China		None observed
Pakistan	Karachi Ord & QM Depot E Drigh Road		—	—	—		47 M-198 towed howitzers

^a Italics indicate items exported.

This table is classified Top Secret [redacted]

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liveries to Soviet forces in Vietnam included the introduction of FLOGGER aircraft into the country. In addition, two Soviet arms deliveries occurred at Kompong Saom Port Facilities Sihanoukville (BE [redacted] Kampuchea. Significant equipment

observed included medium tanks and BTR-60PB APCs. It is not known whether the equipment was intended for Kampuchean forces or for Vietnamese forces occupying Kampuchea. (S/WN)

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Comments and queries regarding this report are welcome. They may be directed to [redacted] Africa/Americas Division, Imagery Exploitation Group, NPIC, [redacted]

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Questions relating to specific areas may be addressed directly to the contributing analysts:

Substantive Area	Name	Secure
Soviet Union and Warsaw Pact	[redacted]	
China		
North Korea		
Cuba		
Central America		
Middle East		
Persian Gulf		
North Africa		
Horn of Africa		
Sub-Saharan Africa		
South Asia		
Southeast Asia		

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The above list is classified SECRET.

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APPENDIX

A1. Tables A1-A3 lists shipments, by type of equipment, from major arms exporters. Details of arms deliveries to Third World countries are provided in Table A4. Shipments are listed by the receiving countries, with analytical expansion provided in the comments section. The first equipment list under each note represents actual imagery confirmation of delivery, unless otherwise designated. For countries such as Cuba, Algeria, and Libya that exported as well as imported arms, the exported equipment is so designated in italics and is listed on a separate line before the imports. (S/WN)

Table A1.
Equipment Shipments from Nikolayev Port Facilities South*

Equipment	Number Exported	Equipment	Number Exported
Air Defense-Associated		BM-21 multiple rocket launcher	28
SA 6 STRAIGHT FLUSH	5	Total	232
SA 8 TLAR	4	Engineer	
SA 8 resupply vehicle	4	GSP heavy amphibious ferry	22
SA 2 launcher	20	PMP ponton bridge section	33
SA 2 missile transporter	51	PKP amphibious trailer	5
SA 2/-3 canister transporter	32	Total	60
SA 2 canister	84	Electronics	
SA 2 oxidizer transporter	7	ODD PAIR	2
FAN SONG radar	4	WILD CARD	1
SA 3 launcher	90	SPOON REST	23
SA 3 missile transporter	66	FLAT FACE	6
SA 2/-3/-5 computer van	3	THIN SKIN	6
ZSU 23/4 SPAAG	37	LONG TRACK	1
ZU 23 AAHMG	24	Total	39
Total	431	Aircraft	
Armor		FLOGGER	47
T 62 tank	14	FITTER	37
T-54/-55 tank	63	FISHBED	75
PT 76 light tank	29	HIND	8
Medium tank	188	HIP	3
Total	294	Total	170
Artillery		Miscellaneous	
152mm SP howitzer (2S2)	10	STYX missile crate	64
122mm SP howitzer (2S2)	6	AS-9 missile crate	22
152mm gun howitzer D-20	62	37mm naval antiaircraft gun	6
130mm field gun M-46	10	60-ton trailer	10
122mm howitzer D-30	52	Truck-mounted crane	13
85/100mm antitank gun	50	Searchlight truck	5
76mm field gun ZIS-3	12	Total	120
BM-14/-16 multiple rocket launcher	2		

*Shipments were made to several Third World countries. (See Table A4.)
This table is classified SECRET//WNINTEL.

Table A2.
Equipment Shipments from Vladivostok

Equipment	Number Exported	Destination
Ground Forces-Associated		
122mm howitzer M-30	4	Unknown
AT L tracked prime mover	20	Unknown
Total	24	
Electronics		
KM-1 computer van	9	Unknown
VP series van (prob)	6	Unknown
CONE DISH computer van	1	Unknown
Total	16	
Aircraft		
FLOGGER	14	Soviet forces in Vietnam
Total	14	
Naval		
Yevgenya inshore mine-sweeper	3	Vietnam
Turya hydrofoil boat	1	Vietnam
PO-2 patrol boat	2	Vietnam
Total	6	

This table is classified SECRET//WNINTEL.

Table A3.
Equipment Shipments from the People's Republic of China

Equipment	Number Exported	Destination
Ground Forces-Associated		
Probable Type-63 APC	26	Saudi Arabia*
701A/750 armored vehicle/ambulance	30	Unknown
STYX antiship cruise missile (land-based variant)	5	Saudi Arabia*
57mm antiaircraft gun	40	Unknown
ZPU-4 AAHMG	60	Unknown
Antiaircraft artillery pieces	27	Unknown
Objects/pieces of equipment	25	Unknown
Total	213	
Aircraft		
Possible FISHBED	2	Unknown
Possible FARMER	3-5	Unknown
Total	5-7	
Naval		
Jianghu frigate	1	Egypt**
Total	1	

* Destined for Iraq via overland route

** The Jianghu was observed leaving China in the third quarter and arrived in the fourth quarter.

This table is classified SECRET//WNINTEL.

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IAR-0004/85

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Table A4. Arms Deliveries to Third World Countries, [redacted]

Country	Location	BE No	Class	ARMS CARRIER Name ²	Flag	EQUIPMENT FIRST OBSERVED	EQUIPMENT IMPORTED AND EXPORTED
REGION I: SOUTH/CENTRAL AMERICA							
Cuba	Cienfuegos Port Facilities	[redacted]	Siboney	Siboney	Cuba	[redacted]	2 Yevgenya inshore minesweepers were exported. These same inshore minesweepers were delivered to Nicaragua on [redacted]
Cuba	La Habana Port Facilities	[redacted]	Bolivar	Juarez	Cuba	[redacted]	1 Zhuk patrol boat carried on deck and delivered to El Bluff Naval and Port Facilities, Nicaragua, on [redacted]
Cuba	Mariel Port Facilities	[redacted]	Slavyansk Mod-A	K. Plaushevskiy	USSR	[redacted]	4 FISHBED fuselage crates (prob Type IV), 2 FISHBED component crates, these aircraft crates were first imaged at San Antonio de los Banos Airfield [redacted]
Cuba	Mariel Port Facilities	[redacted]	Leninskiy Komsomol	Kremi	USSR	[redacted]	50 probable SA-2 canisters, 2 possible Zhuk patrol boats
Cuba	Mariel Port Facilities	[redacted]	—	—	—	[redacted]	18 T-34 tanks were exported, probably aboard a Bezhitza/Poltava- or Jingle-class mership. It could not be determined whether the T-34s were intended for Nicaragua or Angola, or if they were being returned to the Soviet Union for scrap.
Nicaragua	El Bluff Naval and Port Facilities	[redacted]	Bolivar	Juarez	Cuba	[redacted]	1 Zhuk patrol boat shipped from La Habana Port Facilities, Cuba, on [redacted] delivery was not observed.
Nicaragua	El Bluff Naval and Port Facilities	[redacted]	—	—	—	[redacted]	2 Yevgenya inshore minesweepers shipped from Cienfuegos Port Facilities, Cuba, on [redacted] delivery was not seen. ³
Nicaragua	Corinto Port Fac AAA Site	[redacted]	Unid roll-on/roll-off	Prob Welfare III	Panama	[redacted]	The ship was East German chartered and carried 150 military cargo trucks and 240 field kitchens.
Nicaragua	El Bluff Naval and Port Facilities	[redacted]	G. Panfilovtsy	Christo Botev	Bulgaria	[redacted]	18 S-60 57mm antiaircraft guns, 2 FLAP WHEELS, 5-7 HINDs, and 2 SPOON RESTs were observed. Much of the equipment, including 2 SPOON RESTs, 30 BTR-152s, and 8 BRDM-2s, was drawn from Burgas Equipment Holding Facility [redacted] Bulgaria [redacted]
Nicaragua	Corinto Port Fac AAA Site	[redacted]	Bezhitza/Poltava	Bakuriani	USSR	[redacted]	2 HINDs, 4 K-8 minesweeping boats, six 37mm naval antiaircraft guns, and probable ammunition were seen. This was the first direct arms delivery from the Soviet Union to Nicaragua. The Bakuriani was suspected of loading FISHBED crates at Nikolayev, but this suspicion was unconfirmed.
REGION II: MIDDLE EAST							
Egypt	Al Iskandariyah Nvb, SS Base, & Hq Nat	[redacted]	Jianghu frigate	El Zaffer	Egypt	[redacted]	This is the 17th unit of this class built in China and the first of two Jianghu frigates to be delivered in a deal with China. It was delivered under its own power from China, equipped with 2 STYX missile launchers and 57mm main twin guns.
Egypt	Al Iskandariyah Port Facility	[redacted]	—	—	US	[redacted]	12 M-60A3 tanks were delivered from the United States; the tanks were observed on railcars, probably enroute to Al Maadi Ordnance Maintenance and Storage Depot SE [redacted] which is the main transshipment and storage facility for armor deliveries to Egypt.
Egypt	Al Iskandariyah Nvb, SS Base, & Hq Nat	[redacted]	Descubierta	—	Egypt	[redacted]	A Spanish-built, Descubierta-class frigate sailed from Spain, equipped with one eight-cell Sea Sparrow surface-to-air missile launcher, one 76mm dual-purpose gun, and two 40mm antiaircraft guns.
Jordan	Al Aqabah Port Facilities S	[redacted]	—	—	—	[redacted]	45 canvas-covered Soviet BMPs, probably enroute to Iraq via the overland route
Jordan	Al Aqabah Port Facilities S	[redacted]	—	—	—	[redacted]	15 unidentified canvas-covered armored vehicles, probably free-world armored personnel carriers
Jordan	Al Aqabah Port Facilities S	[redacted]	—	—	—	[redacted]	25 Faun heavy-lift transporter trucks/tractors, 126 land rovers; delivery not observed
Syria	Al Ladhqiyah Port Facilities	[redacted]	—	—	—	[redacted]	36 trucks, 50 unidentified crates; delivery not observed

IAR-0004/85

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Table A4. (continued)

LOCATION OF ARMS SHIPMENT ACTIVITY			ARMS CARRIER			EQUIPMENT	EQUIPMENT IMPORTED AND EXPORTED
Country	Location	BE No	Class	Name ²	Flag	FIRST OBSERVED	
Syria	Tartus Port Facilities		Bezhtza/Poltava	—	USSR		Delivery of equipment could not be determined, although four possible aircraft crates were on deck.
Syria	Al Ladhqiyyah Port Facilities		—	—	—		31 heavy-lift transporters; probably awaiting a future delivery
Syria	Tartus Port Facilities		Slavyansk Mod-A	—	USSR		None observed
Syria	Tiyas Airfield		COCK	—	USSR		7 FITTER fuselage crates
Syria	Tartus Port Facilities		Kommunist	—	USSR		None observed
Syria	Tartus Port Facilities		Slavyansk	—	USSR		Five probable HIP component crates were on the mole; delivery by the Slavyansk was not confirmed.
Syria	Tartus Port Facilities		Ivan Skuridin	—	USSR		100 vehicles
Syria	Tartus Port Facilities		K. Kushnarenko	—	USSR		None observed
Syria	Tartus Port Facilities		—	—	—		1 possible FLOGGER fuselage crate, 2 FITTER fuselage crates, 4 HIP fuselage crates, 20 aircraft component crates; it cannot be determined if this is a delivery or a shipment destined for return to the USSR.
Syria	Tartus Port Facilities		Nikolay Zhukov	Nikolay Zhukov	USSR		No equipment confirmed; 2 HIP/HAZE helicopter tail assembly crates on deck?
Syria	Tartus Port Facilities		Leninsky Komsomol	Kreml	USSR		3 Zhuk patrol boats
Syria	Tartus Port Facilities		Derna	Derna	Libya		None observed
Syria	Tartus Port Facilities		K. Kushnarenko	—	USSR		1 FITTER fuselage crate, associated wing and component crates, 2 THIN SKIN radar van trucks, 2 probable ODD PAIR antenna trailers
REGION III: PERSIAN GULF							
Iran	Jofa Railroad Station & Yards		—	—	—		No arms deliveries were observed at this major point on the Iran-USSR border.
Iran	Bandar Abbas Port Fac Suru		Arya Sepher	—	Iran		Probable munitions and combat support materiel
Iran	Bandar Abbas Port Fac Suru		Arya Sepher	—	Iran		Probable munitions and combat support materiel
Iran	Bandar Abbas Port Fac Suru		SD-14-class	—	China		Boxes/crates (possible munitions)
Iran	Bandar Abbas Port Fac Suru		Arya Naz	—	Iran		Probable munitions and combat support materiel
Iran	Bandar Abbas Port Fac Suru		Arya Naz	—	Iran		Probable munitions and combat support materiel
Iran	Bandar Abbas Port Fac Suru		—	—	—		Modified ex-UK OL-class replenishment oiler, designated the Kharg by Iran, ² arrived under its own power
Iran	Bandar Abbas Port Fac Suru		Miezko I B.4	—	Iran		Probable munitions and combat support materiel
Iran	Bandar Abbas Port Fac Suru		Type 36-L Mod	—	Iran		Probable munitions and combat support materiel
Iran	Tehran/Merhabad Int'l Airfield		CANDID	—	Libya		One Libyan CANDID parked in transshipment area; no unloading of equipment observed.
Iran	Bandar Abbas Port Fac Suru		Brad Mod-A	—	Iran		None observed
Iran	Bandar Abbas Port Fac Suru		Type 36-L Mod	—	Iran		Six 130mm field guns M-46 were seen. They probably were loaded at Songnim Port Facilities, N Korea, where the equipment total observed on the quay included eight 130mm field guns, 16 ZPU-4 anti-aircraft heavy machine guns, seven 57mm field guns, and 22 vehicles/pieces of equipment.
Iraq	Nukhayb Transshipment Point		—	—	—		50 probable Chinese T-69 tanks
Kuwait	Ash Shuaybah Port Facility		Stakhonovets Kotov	—	USSR		2 Osa-II missile attack boats, probably for Iraq
Kuwait	Ash Shuaybah Port Facility		Slavyansk Mod-A	—	USSR		Boxes and crates were being loaded onto open-bed trucks.

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Table A4. (continued)

LOCATION OF ARMS SHIPMENT ACTIVITY			ARMS CARRIER			EQUIPMENT	EQUIPMENT IMPORTED AND EXPORTED
Country	Location	BE No	Class	Name ²	Flag	FIRST OBSERVED	
Kuwait	Ash Shuaybah Port Facility		Akademik Tupolev	Akademik Stechkin	USSR		66 heavy-lift transporters were present. These transporters were probably awaiting a delivery of armored vehicles which was not imaged. On [] the transporters were gone, and two SPOON REST D van trucks were present. The delivery ship was not observed. ²
Saudi Arabia	Qadimah Port Facility		Poss SD-14	—	China		Probable delivery of at least 27 probable anti-aircraft artillery pieces. These were not identified at Qadimah, but were observed loading at Tanggu Port Facilities, [] China, and are probably enroute to Iraq.
Saudi Arabia	Qadimah Port Facility		Chi-Feng-Kou	—	China		26 Chinese probable Type-63 armored personnel carriers
Saudi Arabia	Qadimah Port Facility		Dolj (2)	—	China		None observed
Saudi Arabia	Qadimah Port Facility		Chi-Feng-Kou	—	China		None observed
Saudi Arabia	Qadimah Port Facility		Yulin	—	China		Forty-six 57/85mm anti-aircraft artillery guns, 71 heavy machine guns were seen. This ship was observed between [] loaded with at least 60 probable ZPU-4 anti-aircraft heavy machine guns, forty 57mm anti-aircraft guns and thirty 701A/750 armored vehicles/ambulances at Chikan Port Facility [] China. This equipment probably will be delivered overland to Iraq.
Saudi Arabia	Qadimah Port Facility		—	—	China		5 STYX antiship cruise missile crates for probable transshipment to Iraq; ship not observed
Saudi Arabia	Qadimah Port Facility		Type 36-L Mod	—	China		Small stores for probable transshipment to Iraq
South Yemen	Aden Port Facility		Bezhitza/Poltava	—	USSR		2 HIND fuselage crates, 1 HIND component crate, 1 FITTER fuselage crate, 1 FISHBED crate
South Yemen	Aden Port Facility		Leninskiy Komsomol	—	USSR		11 STYX (SS-N-2) antiship cruise missile crates, 5 probable radar sets, 6 SA-2 oxidizer trailers
REGION IV: NORTH AFRICA							
Algeria	Mers el Kebir Nvl Base & Hq & Shipyard		Kommunist	Zhanna Lyaburb	USSR		4 HIND fuselage crates exported; 3 HIND component crates loaded on [] for return to the Soviet Union for overhaul TALL KING radar set, 22 generators seen delivered
Algeria	Mers el Kebir Nvl Base & Hq & Shipyard		Slavyansk Mod-A	Gen Vladimir Zaimov	USSR		12 ZSU-23/4 self-propelled anti-aircraft guns
Algeria	Mers el Kebir Nvl Base & Hq & Shipyard		Irkutsk Mod-A	—	USSR		None observed
Algeria	Oued Tatrart Polisario Camp 1		—	—	—		1 SPOON REST C radar
Algeria	Alger Port Facility		Brooke Marine	—	—		1 Brooke marine amphibious vehicle landing ship arrived under its own power.
Algeria	Mers el Kebir Nvl Base & Hq & Shipyard		Puia	Aleksandr Gertsen	USSR		2 ZSU-23/4 self-propelled anti-aircraft guns, 5 ZSU-23/4s seen at the port were loaded aboard at Nikolayev
Algeria	Oued Tatrart Polisario Camp 1		—	—	—		1 FLAT FACE A radar and 9 BM-21s were seen. Oued Tatrart is the major staging area for the Polisario guerillas operating in Western Sahara. The Polisario are trained at Oued Tatrart; then the equipment probably is added into their inventory.
Algeria	Mers el Kebir Nvl Base & Hq & Shipyard		Koni	—	—		1 Koni frigate arrived under its own power, the third Koni in the country.
Algeria	Tubruq Port & Nvl Facilities		Puia	Aleksandr Gertsen	USSR		None observed
Algeria	Mers el Kebir Nvl Base & Hq & Shipyard		K. Kushnarenko	Kapitan Alekseyev	USSR		None observed

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