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imagery analysis report

# Iraq/Iran Military Summary

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**IRAQ/IRAN MILITARY SUMMARY**

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1. (S/D) This report updates the most recent<sup>1</sup> in a series of imagery-derived reports on the Iraq/Iran conflict and covers the period from [redacted]. This report discusses deployed ground forces in the forward area, rear garrison units (Figure 1), airfields, naval bases, commercial shipping, POL facilities, and related activity in Jordan. Military unit designators and subordination (where used) are derived from collateral sources.<sup>2</sup> Acronyms and abbreviations are defined in a glossary at the end of the report. Additional reports will be issued as the situation changes.

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**OVERVIEW**

2. (S/D) Imagery of the forward areas of conflict during the reporting period showed Iraqi and Iranian forces engaged in heavy fighting northwest of Ahvaz in the Susangerd area. Although Susangerd was not imaged, the area immediately around the town appeared to be under Iranian control. Iranian forces also remained in control of Dezful. No significant activity was observed on limited coverage of the Khorramshahr/Abadan and Qasr-E Shirin areas.

3. (S/D) Twelve Iraqi and nine Iranian rear area garrisons/facilities were imaged. Additional captured Iranian equipment was observed in the Baghdad area. This Iranian equipment appeared to be operational. Iranian troop training activity continued in Tehran.

4. (S/D) Nine Iraqi and 15 Iranian airfields were imaged. New damage was observed at Irbil Airfield in northern Iraq. In Iran, two C-130 were observed at Semnan New Airfield.

5. (S/D) One Iraqi naval facility was imaged. Naval activity was seen at three Iranian facilities.

6. (S/D) Fifteen Iraqi and 12 Iranian POL-related facilities were imaged. New damage was observed at one Iraqi and two Iranian facilities.

7. (S/D) Related activity included the construction of a secondary berm at the Baghdad Nuclear Center, Iraq, bulldozer cuts at Desert Track Number 1, Iran, and Iraqi, Soviet, and Cuban merchant ships in Jordan.

**GROUND FORCE ACTIVITY****Iraq/Iran Forward Areas****Khorramshahr/Abadan Area**

8. (S/D) No Iraqi or Iranian ground forces were observed through haze in the Abadan area on [redacted]

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25X1**Ahvaz Area**

9. (S/D) Major elements of an Iraqi tank brigade remained 35 nm northwest of Ahvaz and 6 nm northwest of Susangerd on [redacted] (Figure 2). Iraqi units were observed on both sides of the Karkheh river and a ponton bridge was across the river at Shammariyeh. The presence of new artillery craters suggests that heavy fighting had occurred between Iraqi and Iranian forces.

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10. (S/D) Iranian forces observed northwest of Ahvaz included two tank companies, one mechanized infantry company, and one SP gun battery. These Iranian units may be elements of a tank brigade. Susangerd was not imaged.

**Dezful Area**

11. (S/D) The combat area observed 13.5 nautical miles west of Dezful on [redacted] was not imaged during the reporting period. Iranian forces within 8 nm of Dezful, in the northwest quadrant, were reinforced between [redacted] and now consist of a tank brigade and two tank companies (Figure 3). The reinforcements that brought these forces to brigade size probably came from the armor force last observed 12 nm north-northwest of the city on [redacted]. That force consisted of at least two tank companies and one mechanized infantry company. It was not present on [redacted]

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12. (S/D) The Iranian armor force consisting of at least two tank battalions (possibly elements of a brigade), a mechanized infantry company, and numerous support vehicles positioned 10 nm north of Dezful had also been reinforced between [redacted]. This force appeared to have been reinforced by at least a tank company. A supply and transport unit was newly identified collocated with these units. The field-deployed Hawk site collocated with these units on [redacted] was no longer present. A field logistics depot identified on [redacted] remained 13.5 nm northwest of Dezful.

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13. (S/D) Three AA batteries remained defensively deployed around Vahdati AB Airfield on [redacted]

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**SECRET****Qasr-E Shirin Area**

14. (S/D) No increase in equipment levels, new unit arrivals, or further unit departures were observed at Sar E Pol E Zahab Barracks and Brigade Headquarters and Depot [redacted] Elements of the armored brigade remained in garrison, and equipment appeared to be essentially unchanged from [redacted] In addition, eight AH-1/UH-1 helicopters and one Jet Ranger helicopter were present. The probable 155 mm SP Howitzer M109A1 battery deployment area observed on [redacted] was not imaged.

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25X1**Rear Areas****Iraq**

15. (S/D) In the Baghdad area, major elements of the 9th/10th armor division remained out of garrison at Baghdad Barracks Division Brigade Headquarters Depot School Taji ([redacted]) Captured Iranian equipment observed in four areas within this facility included Chieftain tanks, M-60 tanks, Scorpion tanks, M-113 APC, and two 175mm M-107 SP guns (Figure 4). Track activity indicates this equipment is in operating condition and is probably not being stored for display purposes.

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16. (S/D) Elements of at least a tank company, a ZSU-23/4 battery, and a CP were at the Baghdad Army Post Palace Guard [redacted] and in the vicinity of the palace on [redacted] Major equipment included at least 20 medium tanks, three ZSU-23/4 SPAAGs, and one possible CP.

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17. (S/D) SA-2, SA-3, SA-6, and SA-9 support equipment as well as two SA-6 TELs and four SA-9 TELs were dispersed in revetments along the northern edge of Baghdad SAM Training Area Taji ([redacted]) Ten SA-6 TEL and two STRAIGHT FLUSH radars were dispersed in the missile checkout area.

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18. (S/D) Forty heavy lift transporters, approximately 100 buses, and at least 250 trucks were dispersed throughout Kirkuk Infantry Division Headquarters [redacted]

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19. (S/D) Kirkuk SA-3 SAM Site North Number 1 [redacted] was being converted to an SA-2 SAM site on [redacted] SA-3 equipment has not been present since [redacted] Two SA-2 launchers with missiles, one FAN SONG radar, and one acquisition radar were in the site. Four SA-2 launchers attached to trucks and seven SA-2 transporters (at least five with missiles) were also present. Grading activity was still in progress at the site. At least 20 SA-2 canisters and 17 SA-3 canisters were dispersed in a quarry 5 nm west of the SAM site.

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20. (S/D) Two multiwing buildings, four support buildings, two barracks, and two vehicle sheds at As Sulaymaniyah Military Camp West [redacted] were destroyed by [redacted] Three tanks, three APCs, and at least 100 trucks were dispersed in revetments.

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21. (S/D) At least 40 trucks and materiel were dispersed on [redacted] in revetments in and around Sayyid Sadiq Military Camp [redacted] 26 nm southeast of As Sulaymaniyah.

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22. (S/D) Seven HIP and two GAZELLE helicopters were in the barracks/administration area at Irbil Barracks Division and Brigade Headquarters Northwest ([redacted]) Two probable tanks and an armored vehicle were parked in the tank battalion area, and at least 50 vehicles were dispersed in revetments throughout the barracks area.

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23. (S/D) Four bomb craters were observed next to an ammunition bunker at Irbil Ammunition Depot [redacted] Eleven trucks were dispersed in revetments throughout the facility.

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24. (S/D) Thirty-four trucks were in revetments, and at least 80 trucks/buses were dispersed at Dahuk Barracks Southwest [redacted], 33 nm north of Mosul, on [redacted]

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25. (S/D) An armored brigade and a field artillery battalion departed Ayn Zalah Barracks [redacted] 35 nm northwest of Mosul, between [redacted]

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26. (S/D) A new unoccupied SA-3 SAM site was observed 5 nm east of Habbaniyah Airfield at 33-22-40N 043-40-20E on [redacted] Habbaniyah SA-3 SAM Site East [redacted] consisted of three revetted launch positions and an elevated central guidance area. No SA-3 equipment was observed.

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**Iran**

27. (S/D) Major elements of the armor brigade remained out of garrison at Tehran Barracks and Brigade Headquarters Lavizan ([redacted]) Equipment present on these dates included ten Chieftain tanks, 19 BTR-60, and numerous support vehicles. In addition, four AB-214 helicopters and three Jet Ranger helicopters were dispersed around the parade field on [redacted] one Jet Ranger had departed.

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28. (S/D) Increased activity was observed at Tehran Iranian Islamic Ground Forces Headquarters and Barracks Lavizan [redacted] Six large tents had been set up in the northwestern portion of this facility, personnel were training on the nearby parade field (on [redacted] ber only), and cargo trucks had been dispersed throughout two parking areas within the installation.

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29. (S/D) Increased activity was observed at Tehran Barracks Imperial Guard Brigade Saltanabad (BE [redacted]) Seven groups of personnel were engaged in small unit training on the parade field. This training activity was not observed on subsequent coverage of [redacted] No ground order of battle was present on either date.

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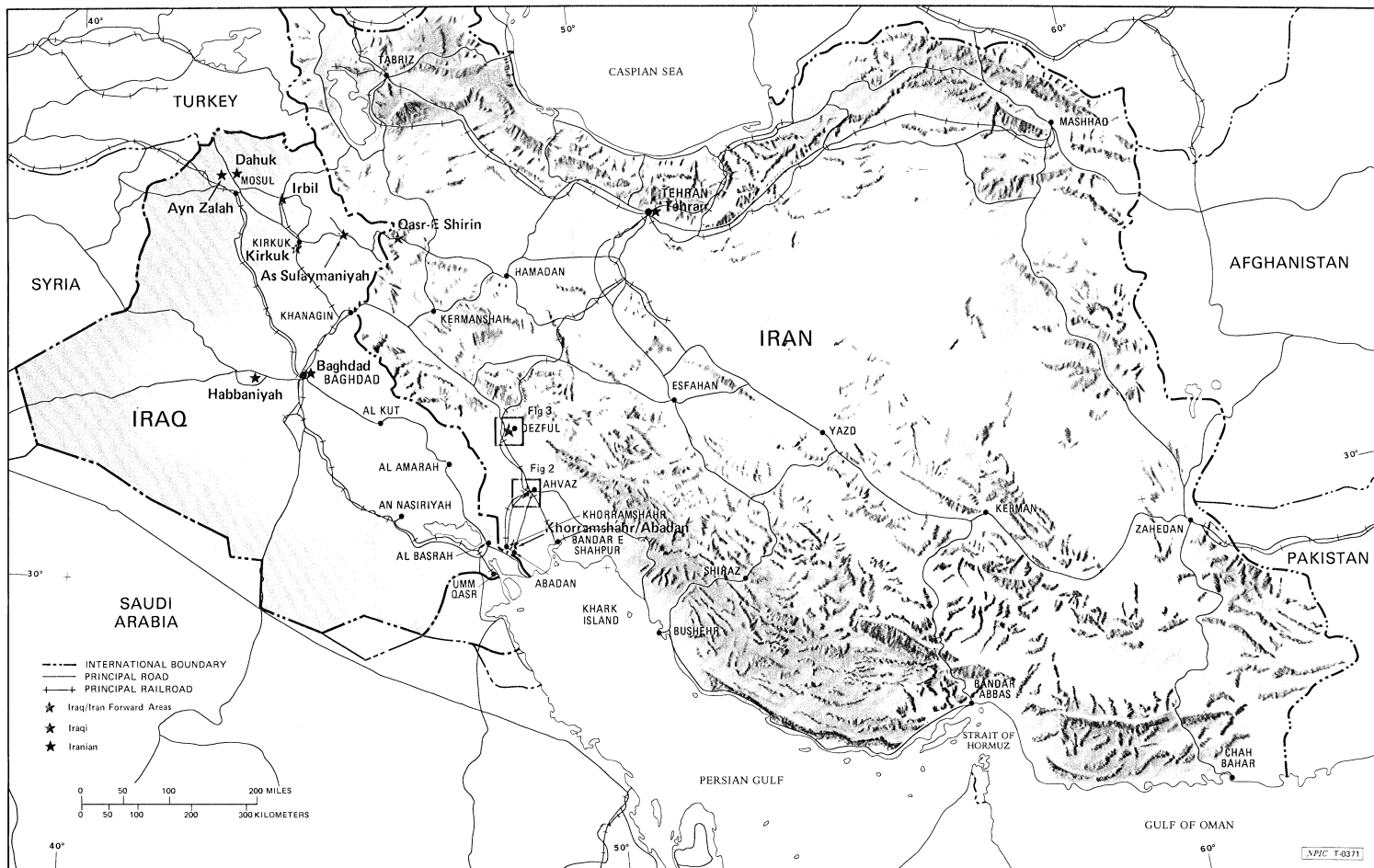


FIGURE 1. IRAQI/IRANIAN GROUND FORCES ACTIVITY

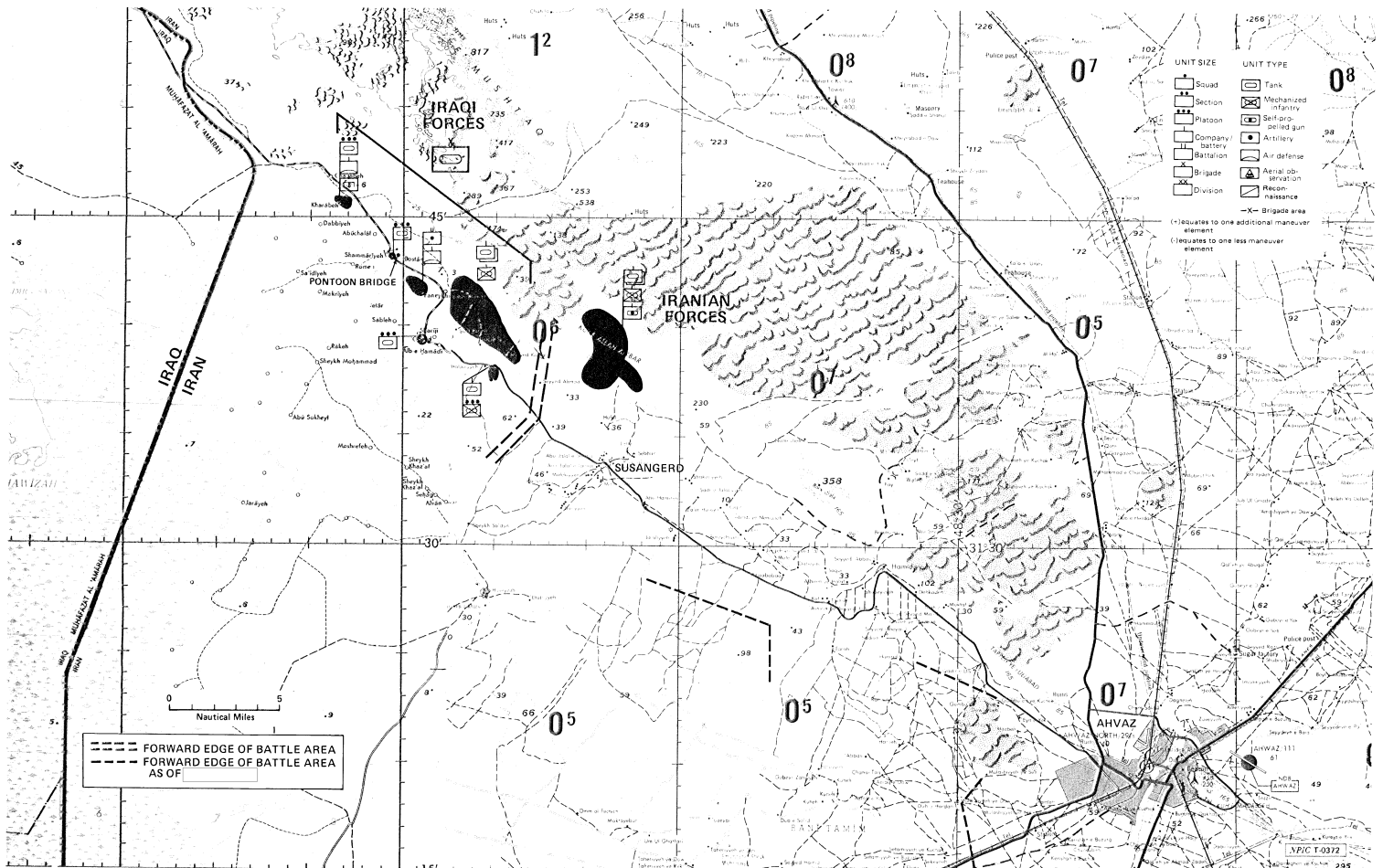
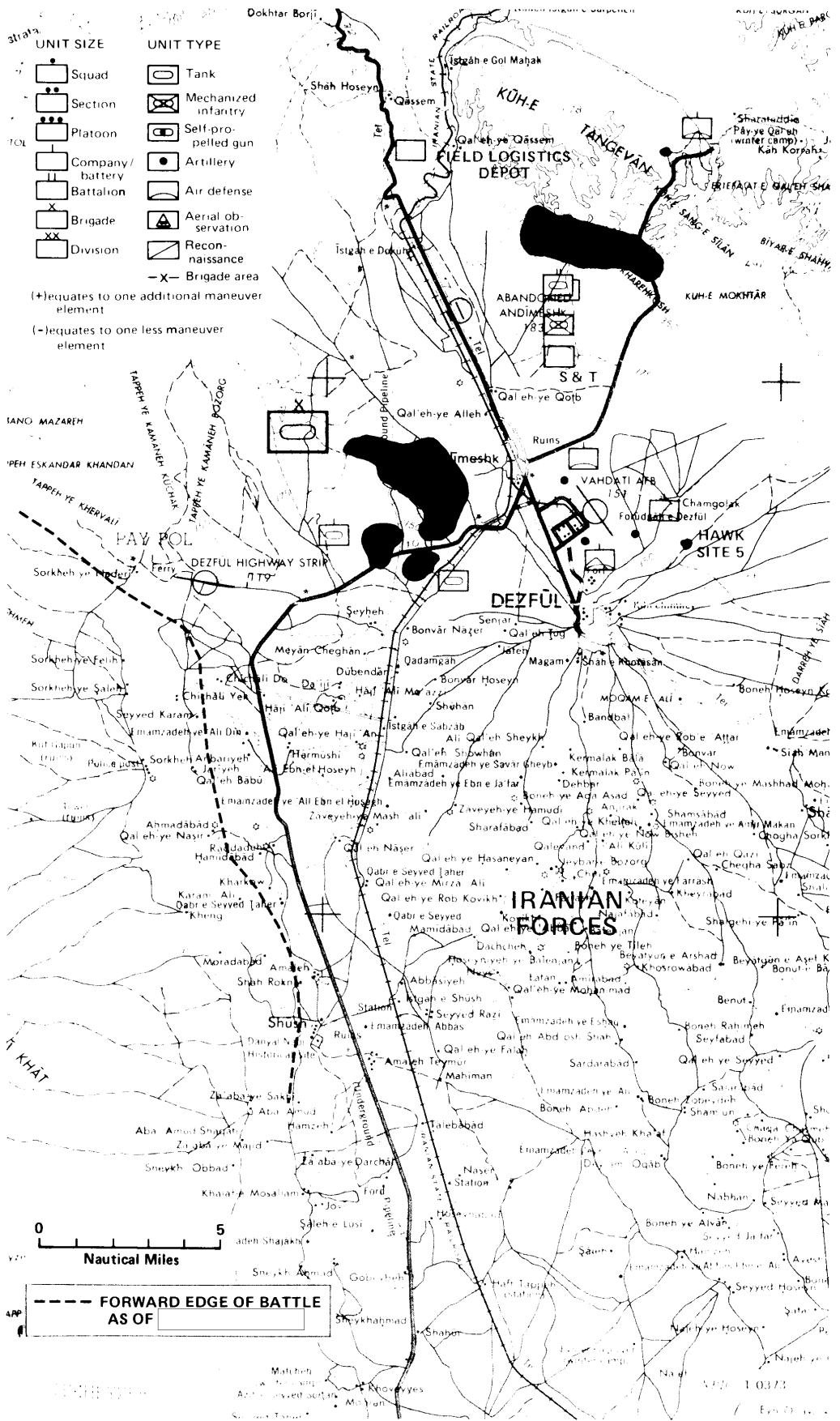


FIGURE 2. GROUND FORCES ACTIVITY, AHVAZ AREA, IRAN, ON



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- 30. (S/D) One AB-214 helicopter departed Tehran Barracks and National Defense University Qasr E Qajar ( ) Two AB-214 helicopters remained at the facility.
- 31. (S/D) No unusual activity or changes were observed at five additional ground forces installations in Tehran on ( )

**AIR ACTIVITY**

- 32. (S/D) Nine Iraqi airfields and 15 Iranian airfields were imaged. New damage was observed at one Iraqi airfield (Figure 5). No new damage was observed at any of the Iranian airfields.

**Iraq**

- 33. (S/D) New damage was observed at Irbil Airfield Northwest ( ) in Iraq on ( ) One possible bomb crater on the runway had been repaired. In addition, three bomb craters were adjacent to one of the six occupied AA sites on the periphery of the airfield.

- 34. (S/D) Four airfields in the Baghdad area, three airfields in the Kirkuk area, and two airfields in west-central Iraq were imaged between ( ) Dark asphalt or oiled areas, probably asphalt patches, were observed on the runways at Habbaniyah Airfield ( ), Al Taqaddum Airfield ( ) and Al Tai Heliport ( ) The dark areas probably represent an attempt at camouflage and deception or possibly normal runway repair rather than bomb damage repair, since no other evidence of an air attack was observed.

- 35. (S/D) Two FLOGGER, one FITTER, six FISHBED, two CRATE, two HOUND, and two possible HOPLITE helicopters were observed at Habbaniyah Airfield on ( ) In addition, five HIP and three HOOK helicopters were dispersed in the housing/support area.

- 36. (S/D) At Al Taqaddum Airfield, two BADGER, five BLINDER, six FLOGGER, and one FITTER were present on ( )

- 37. (S/D) At Al Tai Heliport, 13 HIND and 18 HIP helicopters were observed on ( ) Fifteen of the HIP were dispersed in a field approximately 2 nm east northeast of the heliport.

- 38. (S/D) Five Gazelle helicopters were dispersed at an athletic field approximately 1 nm southwest of Baghdad/Muthenna Airfield ( ) No significant change was observed at the following airfields:

- Kirkuk Airfield ( )
- K-1 Airfield ( )
- K-2 Airfield ( )
- K-3 Airfield ( )

**Iran**

- 39. (S/D) Five airfields in the Tehran area, two airfields in battle areas, one F-14 airfield, and seven airfields along the southern coast of Iran were imaged between ( )

- 40. (S/D) Two C-130 were observed at Semnan New Airfield ( ) (Figure 6). Seven trucks, three buses, six utility vehicles, and five vehicles/pieces of equipment were near one of the C-130. Aircraft are not usually seen at this airfield. By ( ) the aircraft and vehicles had departed. Since Semnan Hawk SAM Training Site ( ) is the only major facility near the airfield, the presence of C-130 may have been related to a possible transshipment of equipment to or from the Hawk Site.

- 41. (S/D) Two F-5 were observed on the runway at Vahdati AB Airfield ( ) Other aircraft observed included one F-27, one CH-47 helicopter, and eight AH-1/AB-214 helicopters.

- 42. (S/D) Nine F-14, one probable F-14, and three F-5 were in the aircraft dispersal area at Khatami AB Airfield ( ) One C-130 and two 707 were also present in the civilian terminal area. Four 35mm AA gun sites, two probable 35mm AA gun sites, six ZU-23 AA gun sites, and two probable ZU-23 AA gun sites remained deployed around the airfield.

- 43. (S/D) At Tehran/Mehrabad International Airfield ( ) 18 F-4, two possible F-4, seven F-5, two possible F-5, two KC-747, two possible KC-747, four KC-707, 13 C-130, four CH-47, and five UH-1 were observed in the military areas on ( ) The 747 with possible canvas covering observed on ( ) remained.

- 44. (S/D) One F-4, two C-130, one probable Falcon, one F-27, and one AB-214 helicopter were observed at Bushehr Airfield ( ) The F-4, C-130, and probable Falcon were not observed on partial coverage of the airfield on ( )

- 45. (S/D) No significant change were observed at the following airfields:  
 Tehran/Doshan Tappeh Airfield ( ) Bandar Abbas Nas Airfield ( )  
 Tehran/Mehrabad Helicopter Field ( ) Bushehr Helicopter Field ( )  
 Manzarjeh Airfield ( ) Kish Airfield ( )  
 Khark Island Airfield ( ) Chah Bahar Airfield ( )  
 Lengh Airfield ( ) Abadan International Airfield ( )

**NAVAL ACTIVITY**

**Iraq**

- 46. (S/D) No battle damage was observed at Umm Qasr Naval Base ( ) (Figure 5). Naval vessels present included two OSA PTG, one SO-1 PCS, and five P-6 PT. Three additional OSA PTG were at Umm Qasr Port Facilities ( ), and two more OSA PTG and two Polnocny LSM were moored upstream from the port facilities. 25X1

**Iran**

- 47. (S/D) Four Wellington LCMA and four Winchester PBA/PCFA were at Khark Island Hovercraft Base ( ) This was an increase of two Wellington LCMA since ( ) 25X1
- 48. (S/D) Vessels in port at Bushehr Naval Base ( ) included two PF-103 PF, seven La Combattante-IIB (Kamen) PTG, and six MK-III PB. Between ( ) one La Combattante-IIB PTG arrived at the base, and by ( ) one La Combattante-IIB PTG and one MK-III PB had departed. 25X1

**COMMERCIAL SHIPPING**

**Shatt Al Arab**

- 49. (S/D) The Shatt Al Arab from 30-19-30N 048-13-50E to 30-18-00N 048-18-25E, including Abadan Port Facilities, Iran ( ) was imaged on ( ) Nineteen coastal/small freighters and two ARD-D were either at the port facilities or in midriver. 25X1

- 50. (S/D) One small POL Storage tank at the southeastern end of the quay at Abadan Port Facilities has been destroyed since ( ) One ARD-D, moored opposite the port facilities, appeared to be riding much lower in the water since ( ) One coastal/small freighter remained at the quay. One coastal/small freighter, low in the water, remained 1 nm north of the port, and nine coastal/small freighters were riding low in the water, 1 nm southeast of the port. 25X1

**Iraq**

- 51. (S/D) New battle damage was observed at Umm Qasr Port Facilities on ( ) The roofs of two transit ships at the southern end of the quay in the military transshipment area have sustained light damage since ( ) A large burn scar was newly observed on the pavement in the container storage area on ( ) At the northern end of the quay, one wall and the roof of a small storage building have been partially destroyed since ( ) Three OSA PTG, five freighters (including one Leninskiy Komosomol), two container ships, one coastal/small freighter, and one probable automobile carrier were at the quay. Eleven coastal/small freighters were moored in open water, upstream from the port facility. 25X1

**Iran**

- 52. (S/D) One VLCC was moored offshore from Khark Island at the Iran Pan-American Oil Company Sea Loading Terminal on ( ) The VLCC, which was riding high in the water, did not appear to be the same vessel observed at this location on ( ) 25X1

- 53. (S/D) Two medium bulk cargo ships (one being offloaded onto barges), one medium general cargo ship, one small general cargo ship, and a Raffaello APB were at Bushehr Port Facilities ( ) Between ( ) two medium general cargo ships departed and the two medium bulk carriers arrived. 25X1

- 54. (S/D) Two medium general bulk cargo ships were offshore at 28-57-01N 050-43-36E on ( ) One of the merchant ships was riding extremely low in the water and may have sustained below-the-water damage. 25X1

**Strait of Hormuz**

- 55. (S/D) One Sumner DDG and one Bandar Abbas AORL (civil markings) departed from Bandar Abbas Port Facilities Suru ( ) Three PBR, one Hengham LST, one Bandar Abbas AORL (naval markings), and one Kangan AWK returned to port during the same time period. Naval vessels in port on ( ) included one Battle DDG, one Sumner DDG, three Vosper MK-5 (SAAM) FFGs, two PGM-71 PGMs, six MK-III PBs, six PBRs (one heading out of port), two Hengham LST, one Bandar Abbas AORL, two Kangan AWK, a Michaelangelo APB, one Amphion AR, and one ARD-T. One Hengham LST had been removed from the large graving dock and tied up at the graving dock quay between ( ) Only one of the two LCM normally observed on the deck of this vessel was present. The markings on the hangar deck of the Bandar Abbas AORL in port had been partially painted over by ( ) 25X1

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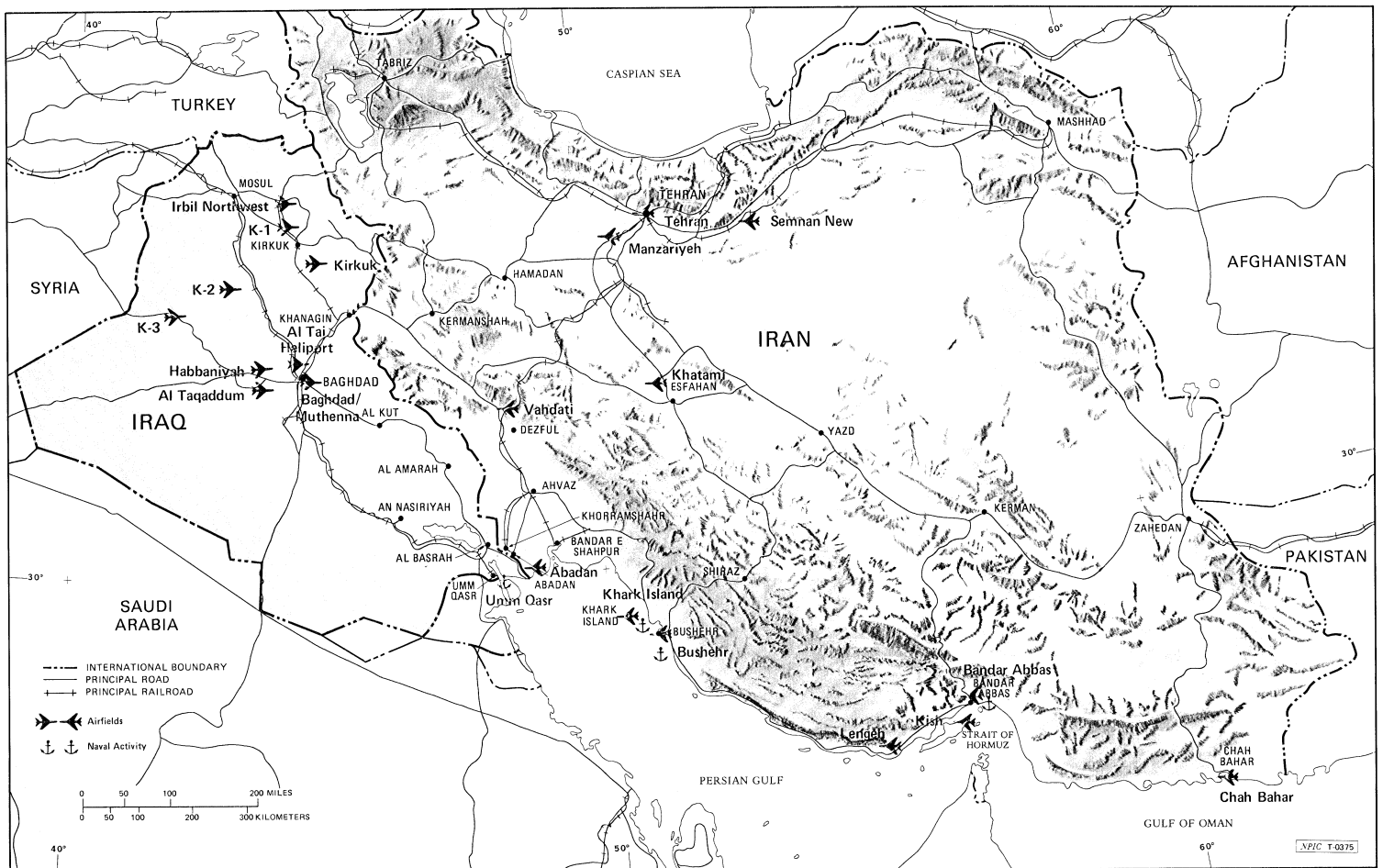


FIGURE 5. IRAQI/IRANIAN AIR AND NAVAL FACILITIES

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56. (S/D) In addition to the naval activity, commercial ship activity was also observed at this port. Six medium bulk cargo ships, four medium general cargo ships, one container ship, one tanker, and one small/coastal freighter were in port on [redacted] Between [redacted] two medium bulk cargo ships, one medium general cargo ship, and one tanker arrived in port, and two medium bulk cargo ships departed. 25X1

57. (S/D) Two medium general cargo ships and one small tanker were in a holding area in the Persian Gulf south of the harbor on [redacted] 25X1

**POL FACILITIES**

58. (S/D) Fifteen Iraqi facilities were observed—two in the southeastern portion of the country, one in Baghdad, three in the eastern portion of the country, and nine in the Kirkuk area (Figure 7). Twelve Iranian facilities were imaged—ten in the southwestern portion of the country, one in Esfahan, and one in Tehran. New damage was observed at one Iraqi and two Iranian POL-related facilities during the reporting period.

**Iraq**

59. (S/D) One small POL tank (13,200 barrels) received external fire damage but no apparent structural damage at Ayn Zalah Crude Oil Storage [redacted] Burn marks on an adjacent hillside, possibly the result of damage to a pipeline leading to a gas flare-off tower, were also evident. This facility has a POL storage capability of 222,250 barrels. 25X1

60. (S/D) The camouflaging of POL tanks was identified for the first time in Iraq at Baghdad Petroleum Products Storage Ummal Adham [redacted] (Figure 8). The tanks at this facility appear to have been camouflage painted between [redacted] 25X1  
25X1

**Iran**

61. (S/D) Twenty-eight additional POL storage tanks with a total capacity of 2,705,000 barrels were destroyed, and four POL tanks were damaged at Abadan Petroleum Products Storage and Pumping Station Transfer Iran I ([redacted]) This reduces the total capacity of the facility from the original 14,030,500-barrel storage capacity to no more than 6,003,000 barrels. At least ten POL tanks continued to burn and/or smolder, and fires were observed on two pipeline segments. 25X1

62. (S/D) Heavy smoke obscured most of Abadan Petroleum Refinery NIOC ([redacted]) No additional damage could be discerned. At least two POL tanks continued to burn. 25X1  
25X1

63. (S/D) A new 35 mm AA gun site was set up on the northern edge of Shiraz Petroleum Refinery Takht E Jamshid ([redacted]) (this area was cloud covered on [redacted]) 25X1  
[redacted] There are now two 35mm AA gun sites and seven ZU-23 AA gun sites around the facility. This facility remains undamaged and operational. 25X1

64. (S/D) No change in status was observed at the following facilities.

**Iraq**

Hanjira Degassing Station [redacted]	25X1
Jabulur Degassing Station [redacted]	
Kirkuk Gas Absorption and Stabilization Plant North [redacted]	25X1
Kirkuk Petroleum Pumping Station and Storage K-1 ([redacted])	
Kirkuk Petroleum Refinery and Storage [redacted]	25X1
Kirkuk Petroleum Storage Town ([redacted])	25X1
Qutan Degassing Station ([redacted])	25X1
Sarulu Degassing Station [redacted]	
Sarbashakh Degassing Station [redacted]	25X1
Bayji K2 Petroleum Pumping and Storage Station [redacted]	25X1
Al Hadithah Petroleum Topping Pumping and Storage K-3 [redacted]	25X1
Baghdad Petroleum Products Storage Ummal Adham [redacted]	25X1
Mina Al Bakir Port Facilities ([redacted])	25X1
Khor Al Amaya POL Terminal [redacted]	25X1

**Iran**

Agha Jari Petroleum Stabilization Plant AIOC [redacted]	25X1
Omidiyeh Ye Dovvam Crude Pump Station No 2 [redacted]	25X1
Tehran Petroleum Storage NIOC ([redacted])	25X1
Esfahan Petroleum Refinery Northwest [redacted]	25X1
Gach Saran Gas Oil Separation Plant PU 3 [redacted]	25X1
Gach Saran Gas Oil Separation Plant PU 4 [redacted]	
Gach Saran Topping and Stabilization Plant [redacted]	25X1
Ganaveh Pipeline Valve Control Complex [redacted]	25X1
Jazireh Ye Khark Petroleum Terminal [redacted]	25X1

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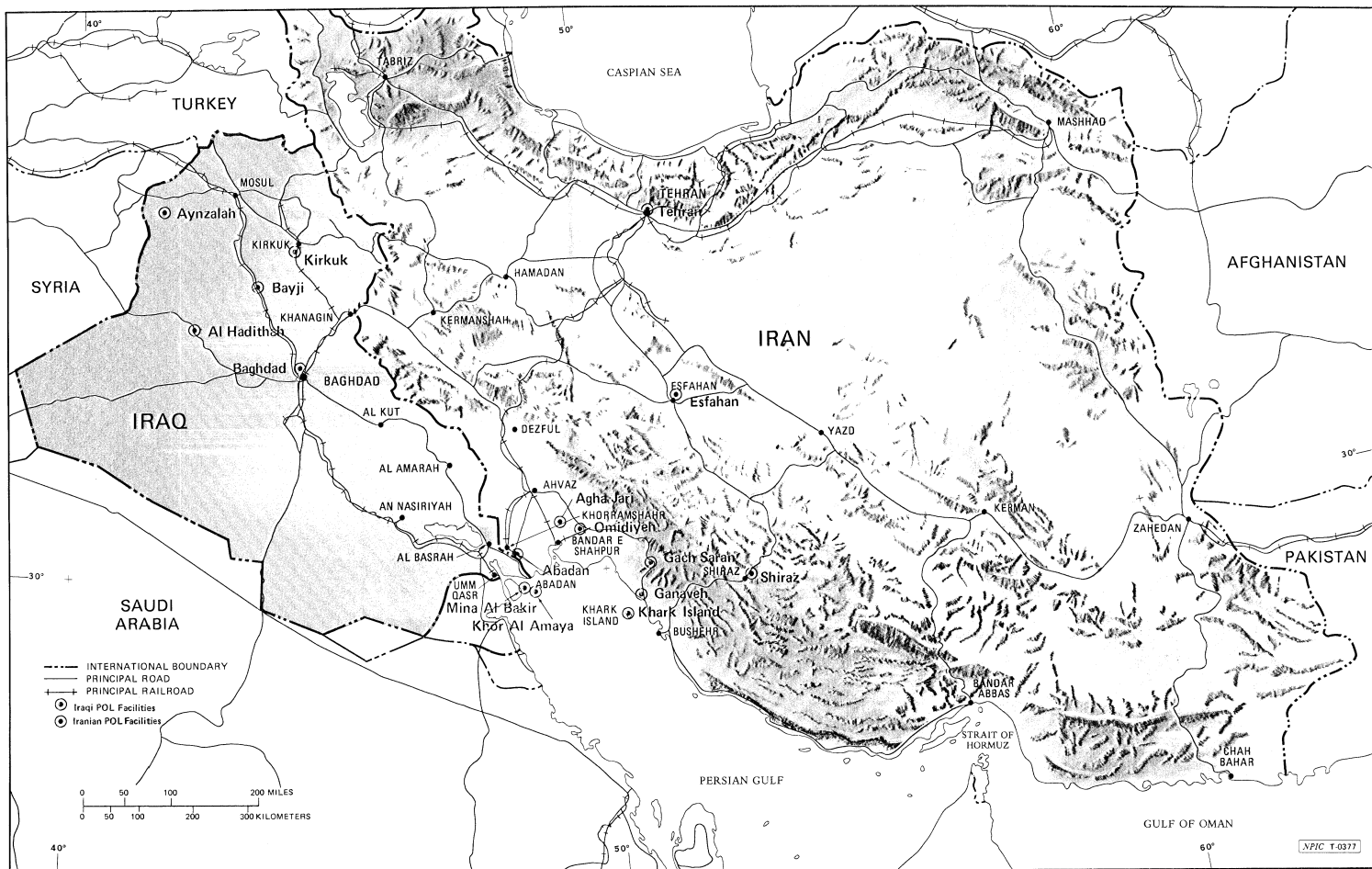


FIGURE 7. POL FACILITIES IN IRAQ AND IRAN

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## OTHER

## Iraq

65. (S/D) No additional battle damage was observed at Baghdad Nuclear Research Center [redacted] on partially cloud-covered imagery of [redacted] (Figure 9). Construction was continuing on the large earthen berms on the west side of the French reactor area and the Italian laboratory area. Smaller secondary berms have been constructed within the metal screens that surround the French reactor and all major laboratory buildings. The screens appeared to be complete. Perimeter security was provided by at least one BTR-60PB equipped mechanized infantry company. Air defense was provided by at least two ZSU-23/4 SPAA batteries, one occupied five-position AAA site, and an occupied three-position AA site.

## Iran

66. (S/D) On [redacted] a bulldozer was observed plowing up a segment of land near Desert Track Number 1 ( [redacted] Figure 10). Several hundred bulldozer cuts have been made in a wide area around Desert Track Number 1 since [redacted]. This would preclude further useage of this area as a fixed wing aircraft landing area. No further removal of aircraft wreckage was apparent. A bus was in the vicinity of the landing area.

67. (S/D) Movement of vehicles at the US Embassy, Tehran [redacted] occurred between [redacted] [redacted] A large bus, which has been observed in the northern parking area since [redacted] was not present on [redacted]. The number of sedans within the compound fluctuated during the reporting period.

68. (S/D) No indication of military equipment deliveries was observed at the major transshipment point on the Iran/USSR border (Jofa Railroad Station and Yards, [redacted] Iran and Dzhulfa RR Yard BE [redacted] USSR) on [redacted].

## Jordan

69. (S/D) Two probable Iraqi merchant ships, eight possible Soviet arms carriers, and seven possible Cuban merchant ships were at Al Aqabah Port Facilities [redacted], Jordan on [redacted] (Figure 11; all vessels not shown). These were among 69 merchant ships at this facility on that date. This was an unusually large number of merchant ships.

70. (S/D) The two probable Iraqi Poltava class merchant ships were in the vicinity of Al Aqabah Port Facilities; one near the quay and one underway (not on graphic). This was the first time Iraqi vessels had been identified at Aqabah since the beginning of the Iraq/Iran war. Eight possible Soviet arms carriers including a Vyborg, a Murom, two Rostok, a Pula, a Leninskiy Komsomol, and two Kommunist-class vessels were in the vicinity of the port facilities. All but the Vyborg, which was tied to a floating dock, were moored in the roadstead. Five of the seven possible Cuban vessels were in the roadstead, and two were at the quay.

71. (S/D) The number of merchant ships at this facility had been increasing steadily since [redacted] when 37 vessels were observed. By [redacted] there were 57 vessels present, with the count growing to 69 by [redacted]. The number of Soviet-bloc vessels present on [redacted] was the largest number of such vessels at the facility to date.

72. (S/D) In addition, a probable Yugoslavian Jadroplov merchant vessel was tied to the floating dock at Al Aqabah Port Facilities South [redacted], 3 nm south of Aqabah Port Facilities. Several unidentified vehicles were on the deck of the Jadroplov and large crates were nearby on the floating dock. Numerous unidentified crates and vehicles were in the open storage area.

## GLOSSARY OF ACRONYMS AND ABBREVIATIONS

This glossary in its entirety is UNCLASSIFIED

AA	Antiaircraft	MSC	Coastal minesweeper	25X1
AAA	Antiaircraft artillery	MSF	Fleet minesweeper	25X1
AD	Air defense	MSI	Inshore minesweeper	
AORL	Small replenishment oiler	NM	Nautical miles	
APB	Barracks ship	PACV	Patrol air cushion vehicle	
APC	Armored personnel carrier	PB	Patrol boat	
AR	Repair ship	PBA/PCFA	Patrol boat air cushion	
ARD-D	Floating drydock	PBR	River/roadstead patrol boat	
ARD-T	Auxiliary repair dock	PCL	Small submarine chaser	
AW	Air warning	PCS	Submarine chaser	
AWK	Water carrier	PF	Patrol frigate	25X1
AX	Training ship	PGM	Motor gunboat	25X1
CP	Command post	PMP	Heavy folding ponton bridge	25X1
DD	Destroyer	POL	Petroleum, oil, and lubricant	25X1
DDG	Guided missile destroyer	PTG	Missile attack boat	
DIW	Dead in the water	RTP	Rail-to-road transfer point	
EW	Early warning	RO/RO	Roll-on/roll-off	25X1
FA	Field artillery	SAM	Surface-to-air missile	25X1
FFG	Guided missile frigate	SP	Self-propelled	25X1
LCMA	Air cushion medium landing craft	SPAA	Self-propelled antiaircraft	
LCM	Medium landing craft	SPG	Self-propelled gun	25X1
LCU	Utility landing craft	SSM	Surface-to-surface missile	25X1
LSM	Medium amphibious assault landing ship	TEL	Transporter-erector-launcher	
LST	Amphibious vehicle landing ship	TMM	Truck-mounted bridge	
MRL	Multiple rocket launcher	VLCC	Very large crude carrier	

## REFERENCES

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## IMAGERY

(S/D) All applicable satellite imagery acquired from [redacted] was used in the preparation of this report. 25X1

## MAPS OR CHARTS

DoD. Joint Operations Graphics, Various Sheets (UNCLASSIFIED, Distribution Restricted)

## DOCUMENTS

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- DIA. DDB-1100-1Z-80, *Ground Order of Battle: Iraq (U)*, Jan 80 (SECRET) 25X1
- DIA. DDB-1100-1R-78, *Ground Order of Battle: Iran (U)*, Aug 78 (SECRET) 25X1

(S) Comments and queries regarding this report are welcome. They may be directed to the South Asia/Arabia Branch, Third World Forces Division, Imagery Exploitation Group, NPIC, [redacted] 25X1

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