

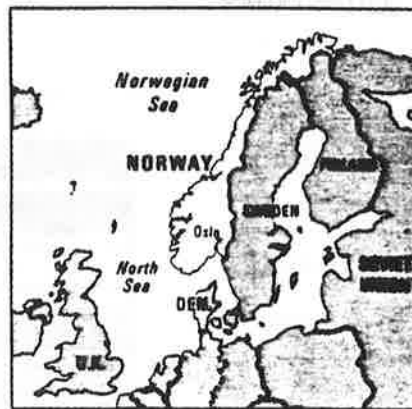
NORWAY

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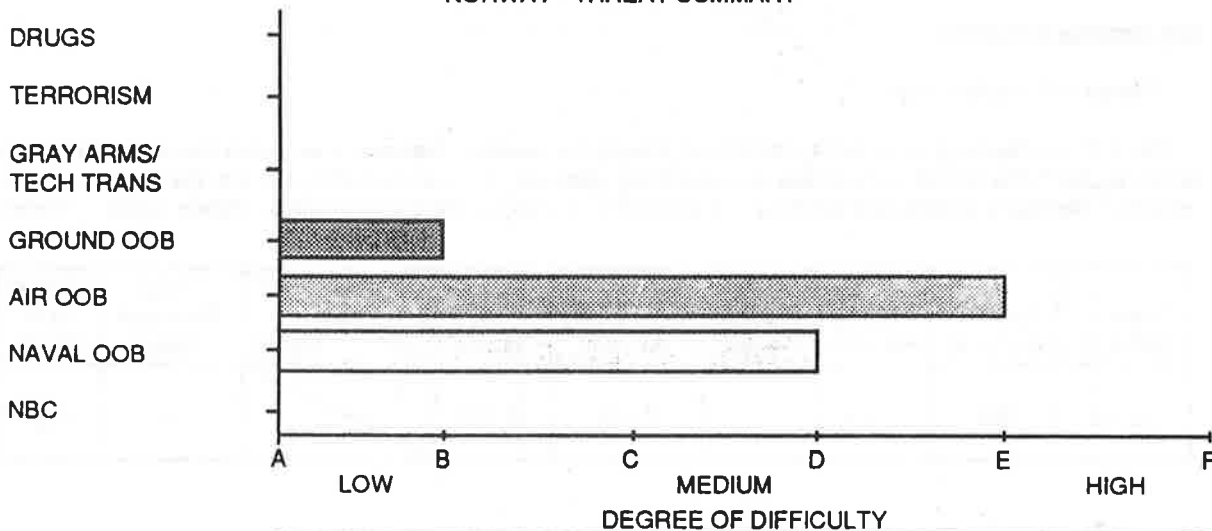


SUMMARY

Norway occupies a strategic position in northwestern Europe, close to Soviet bases on the Kola Peninsula and adjacent to the sea lanes of communication between Europe and the U.S. The U.S. and Norway enjoy friendly relations and overall U.S. equity in this country is high. The two countries are active trading partners and a number of American firms participate in Norway's petroleum sector. About 13,500 U.S. citizens reside in the country. The factors of drugs, terrorism, gray arms/technology transfer, and NBC are of little significance there. The Norwegian army is a highly motivated, infantry heavy mobilization force composed of about 19,000 troops. The air force and navy are technically sophisticated organizations manned by a core of professionals. Norway is a staunch supporter of NATO but does not allow the stocking of nuclear weapons on its territory in peacetime or the stationing of foreign forces on its soil unless threatened with attack. However, in recent years military exercises including U.S. forces have been conducted in Norway and the Marine Corps maintains prepositioned equipment there.

The Norwegian language and Protestant religion predominate in the country and the Norwegian culture can be characterized as being moderately different from that of the U.S. The climate of Norway is cold and wet and is the most difficult of all the expeditionary environment countries. The winter weather tends to be less severe along the coast than it is inland. Norway's high plateaus and rugged mountains are broken by frequent valleys and numerous lakes. About 25 percent of the land is forested. Most of the terrain is unsuited for cross-country vehicular movement and the average standoff distance for engagement by line of sight weapons (intervisibility) is normally limited to less than 1,000 meters. While hydrographic conditions generally permit NGF ships to approach the coast, they are apt to be out-gunned by Norwegian coastal defense weapons. The country has complete coverage by old 1:50,000 scale maps, but some of these maps may be outdated. Airfields and ports in Norway are highly satisfactory. Key installations include offshore oil facilities. The Atlantic ARG which normally operates in the Mediterranean would require in excess of six days to reach Norway. NEO conducted by a MEU under normal conditions in Norway would be very difficult due to the over 13,000 potential evacuees.

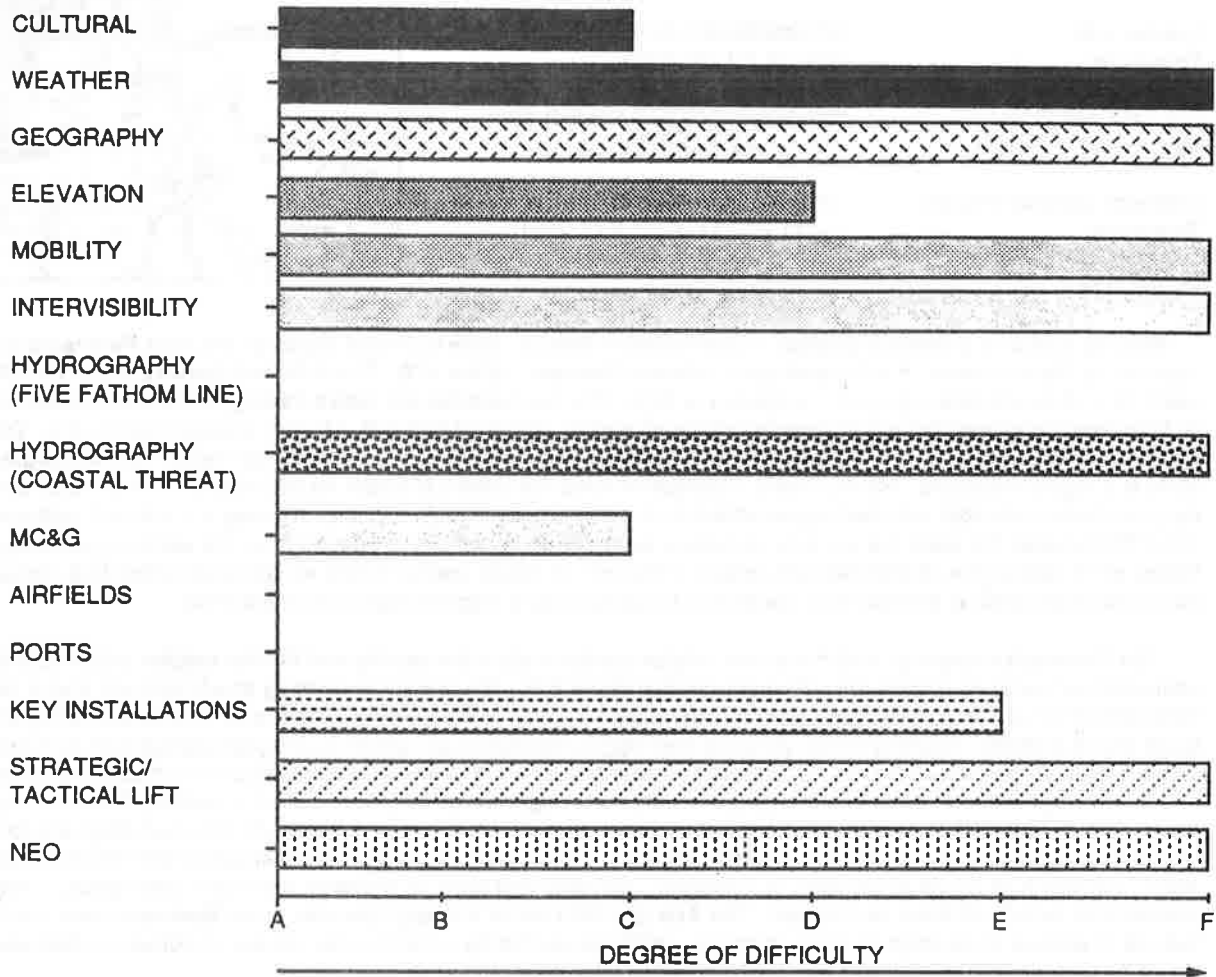
NORWAY - THREAT SUMMARY



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## NORWAY - TERRAIN AND LOGISTICS SUMMARY



### U.S. Equities in Norway

- Overall U.S. equity is high.

The U.S. and Norway enjoy a long tradition of friendly association. Norway is an active member of NATO and readily supports the United Nations and its specialized agencies. As bilateral trade partners, the U.S. receives 5.1 percent of Norway's exports and furnishes 7.2 percent of its imports. About 13,500 U.S. citizens reside in Norway.

Direct Inv (Mil of \$)	Exports (Mil of \$)	Imports (Mil of \$)	U.S. Aid (Mil of \$)	Total Equity (Mil of \$)	U.S. Citizens	\$ Rating Rating	Total Numerical Rating	Overall U.S. Equity
4,142	842	1,514	-	6,498	13,500	5 6	11	High

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## General Ground OOB

Infantry	Tank OOB	Artillery	Army Size (Thousands)	Quality	Total Capability Value	Rating
Draft/TR	M-48	Howitzers/SP	19	14	73	B

Ground OOB has a strength of 19,000 of which 13,000 are conscripts. Recruit training lasts from three to eight months depending on the branch of service and specialty. Recruits are then sent to their units. There are also officer candidate and NCO training schools. **Norwegian** training emphasizes winter warfare. Regular officers attend a military academy at **Oslo**. Tanks: Leopard, M-48A5; Artillery: M-101, M-109G, M-114.

## General Air OOB

Air OOB	Close Air	AAW (IAD)	Air Force Size (Thousands)	Quality	Total Capability Value	Rating
3d Gen Radar	Std-off PGM	3d Gen SAMs	9	14	143	E

Fighter Aircraft: F-5A/B, F-16A/B; Close Air: F-5A/B, F-16A/B; Air Defense: HAWK NOAH, Nike Hercules, and RBS-170 (with Giraffe radar) SAMs and AA guns. The **Norwegian** air control facilities are integrated into NADGE. **Norway** maintains 3-dimensional air surveillance radars on mountain tops to enhance air defense coverage. Other advanced radar systems are being added to the HAWK configuration and the RBS-70 SAM system.

## General Naval OOB

Naval OOB	S/S Missiles	Patrol Craft	Navy Size (Thousands)	Quality	Total Capability Value	Rating
ASUW/Air/ASW	Flex Trajectory	ASUW/Antiair	9	14	123	D

Ships: 5 Frigates and 2 Corvettes with SSMs, SAMs (Sea Sparrow), guns, torpedoes, antisubmarine mortars, mines, countermeasures, and radars; SSMs: Penguin Mk 2, Penguin Mk 3; Patrol Craft: 28 Fast Attack Craft-Missile and SSMs, guns, torpedoes, fire control, and radars; 8 Fast Attack Craft-Torpedo; 2 Coastal Patrol Craft.

## Culture (Language and Religion)

Primary language - Norwegian (Bokmal, Nynorsk Dialects)  
Primary religion - Protestant

Ethnically, **Norwegians** are predominately Germanic, although in the far north there are communities of Lapps who came to **Norway** more than 10,000 years ago, probably from central **Asia**. The Evangelical Lutheran Church is the main religious affiliation. There is a moderate cultural difference between **Norway** and the **U.S.**

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## Weather

Average Temperature (Degrees Fahrenheit)	Average Relative Humidity (Percent)	Average Annual Rainfall (Inches)	Rating
23-63	73	12-130	Wet/Cold

With wet and cold conditions, **Norway** presents the most difficult climate of all expeditionary environment countries. The influence of the North **Atlantic** current, warmed by the Gulf Stream, results in relatively milder winters along the coasts; however, winter temperatures in the interior are extremely low. Spring and summer are moderately warm.

## General Geographic Conditions

URBAN	DESERT	JUNGLE	MOUNTAINOUS
			X

## Operational Elevation

<2,000 FT	<4,000 FT	<6,000 FT	>6,000 FT	>9,000 FT	>12,000 FT
			X		

**Norway's** high plateaus and rugged mountains are broken by verdant valleys, and there are many lakes. About 25 percent of the land is forested, and only 3 percent is arable. **Norway** has the lowest mean population density in Europe. About 65 percent of the people live in the south and along the coast.

## General Cross-Country Mobility

- **Norway** is generally unsuited for cross-country vehicular movement.

Approximately 90 percent of **Norway** consists of rugged terrain, dense forests, or deep snow, which preclude the cross-country movement of tracked and wheeled vehicles year round. Cross-country movement is feasible over the remaining 10 percent of the country but only during late spring, summer, and autumn periods.

## Intervisibility (Line of Sight)

- Poor, with line of sight distances normally limited to less than 1,000 meters.

The terrain of **Norway** consists of high plateaus and mountains broken by valleys and numerous lakes. About 25 percent of the land is covered with forest. Due to the heavily dissected terrain, frequent winter snowfall, and occasional coastal fog, line of sight distances in about 90 percent of the country would be limited to less than 1,000 meters.

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## Hydrography (Five Fathom Line)

- NGF platforms are able to approach the coast to provide satisfactory support for operations ashore.

DMA Chart #	5 Fathom Line from Shore (Meters)	NFG Rating
43125	400	Good

## Hydrography (Coastal Threat)

- Limited coastal threat.

Maximum Capability Coastal Defense Weapon	Maximum Range of Weapon (Meters)	Rating (Compared with 5"/54-cal)
Penguin SSM	27,000	Threat Advantage

## MC&G Shortfalls

- Complete coverage with old 1:50,000 scale maps.

1:50 New	1:50 Old	Some 1:50	MSI Avail	1:250 New	None
	X				

## Airfields

- Highly accessible by air, with more than one airfield that can handle C-5 aircraft.

Number of Airfields	Type Aircraft (C-5, C-141B, C-130) Accommodated	Airfield Utility (Unconstrained/Constrained)	Rating
32	13 C-5 8 C-141B 7 C-130 4 None	11/21	>1/C-5

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Airfields	Type Aircraft	Comments
Alesund/Vigra	C-141B, C-130	-
Alta	C-141B, C-130	Runway is less than 6,000 feet.
Andoya	C-5, C-141B, C-130	Airfield has obstacles.
Aro	C-141B, C-130	Runway is less than 6,000 feet.
Banak	C-130	-
Bardufoss	C-5, C-141B, C-130	Taxiway narrow for C-5s.
Bergen/Fiesland	C-5, C-141B, C-130	-
Bobo	C-5, C-141B, C-130	Taxiway narrow for C-5s.
Evenes	C-5, C-141B, C-130	-
Folldal/Grimsmoen	None	-
Fyresdal	C-130	Daylight/VFR only. Low runway WBC.
Haugesund/Karmoy	C-141B, C-130	Runway is less than 6,000 feet.
Kaulokøino	None	-
Kirkenes/Hoybuktmoen	C-130	-
Kjeller	C-130	Daylight/VFR only. Low runway WBC.
Kristiansand/Kjevik	C-141B, C-130	-
Kristiansund/Kvernberget	C-141B, C-130	Runway is less than 6,000 feet.
Lista	C-5, C-141B, C-130	-
Notodden	C-130	-
Orland	C-5, C-141B, C-130	Taxiway narrow for C-5s.
Oslo/Fornebu	C-5, C-141B, C-130	-
Oslo/Gardermoen	C-5, C-141B, C-130	Taxiway narrow for C-5s.
Roros	C-141B, C-130	Runway is less than 6,000 feet.
Rygge	C-5, C-141B, C-130	Low runway WBC.
Skien/Geiteryggen	C-130	Low runway WBC.
Stafsberg	None	-
Stavanger/Sola	C-5, C-141B, C-130	Taxiway narrow for C-5s.
Svartnes	None	-
Torp	C-5, C-141B, C-130	-
Tromso/Langnes	C-141B, C-130	-
Trondheim/Vaernes	C-5, C-141B, C-130	Taxiway narrow for C-5s. Airfield has obstacles. Daylight only.
Voss/Bomoen	C-130	Daylight/VFR only. Low runway WBC.

### Ports

- Norway has several major ports with excellent capabilities to accommodate strategic sealift.

Major Ports	Harbor Size	Channel/Anchorage Depths (Feet)	Cargo Pier Depth (Feet)	Cranes
Kirkenes	Small	Over 76/36-40	51-55	Yes
Hammerfest	Small	56-60/26-30	26-30	Yes
Tromso	Small	26-30/36-40	26-30	Yes
Narvik	Small	Over 76/56-60	46-50	Yes
Bodo	Small	71-75/41-45	36-40	Yes
Mo	Small	Over 76/Over 76	36-40	Yes
Trondheim	Medium	Over 76/71-75	36-40	Yes
Mongstad	Medium	-/Over 76	Over 76	-
Bergen	Medium	Over 76/26-30	31-35	Yes
Agotnes	Small	Over 76/Over 76	56-60	Yes
Stavanger	Medium	Over 76/26-30	51-55	Yes
Oslo	Large	46-50/46-50	31-35	Yes

**Key Installations**

Norway has offshore oil facilities. There are numerous industrial facilities in the vicinity of Oslo. Communications and transportation facilities are well developed.

U.S. Embassy	Communications	Highways	Railroads	Major Ports	Primary Airfields	Pipeline	Oil Field	NBC
Oslo (Norway is a major oil and gas producer)	- Excellent telecomm - 1,020 Radio stations - 1,938 TV stations - Well-developed satellite ground stations	79,540 km	4,242 km	12	32	- Refined products	Offshore oil	None

**Strategic and Tactical Lift**

The Atlantic ARG with its embarked MEU which normally operates in the Mediterranean Sea would require in excess of six days to reach Norway. The AAF/ACB can arrive within 24 hours but these elements do not possess a forcible entry capability.

**NEO**

- Due to the large number of potential evacuees (over 13,000) in Norway, NEO conducted by a MEU under normal conditions would be very difficult.

Embassy Staff	Evacuees	Inland Objective (nm)	Rating
100	13,500	4 (Oslo)	F

Note: In Norway, the following factors are of little significance:

- Drugs
- Terrorism
- Gray Arms/Technology Transfer
- NBC

