

# Better Support for UN Operations

UNRCC for the Americas



Cartographic Section  
Department of Field Support  
United Nations

UN Cartographic Section

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## Agenda

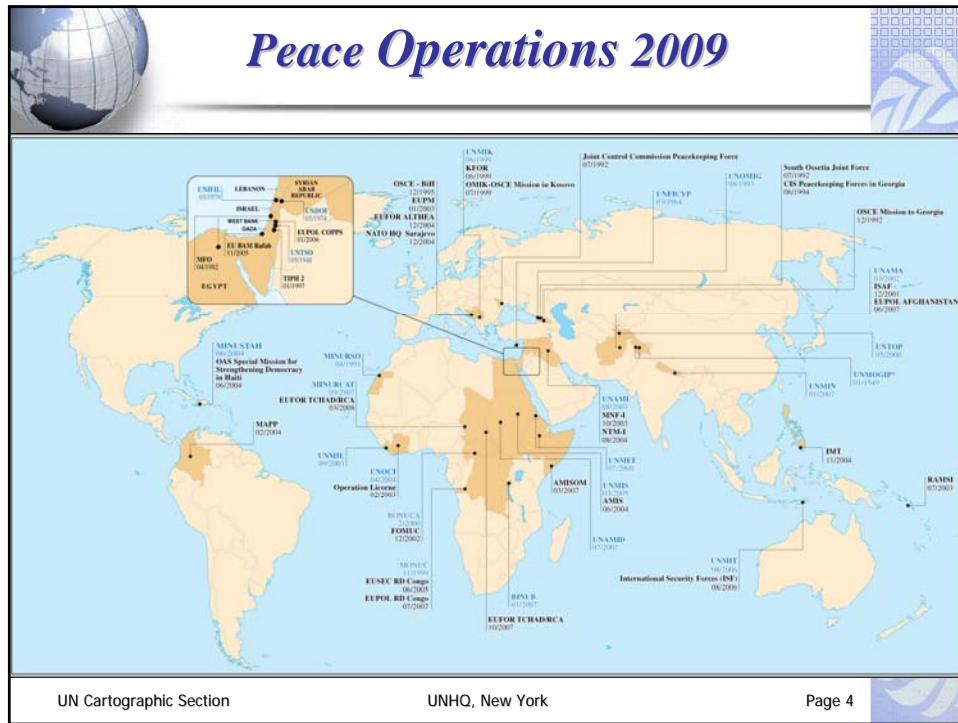
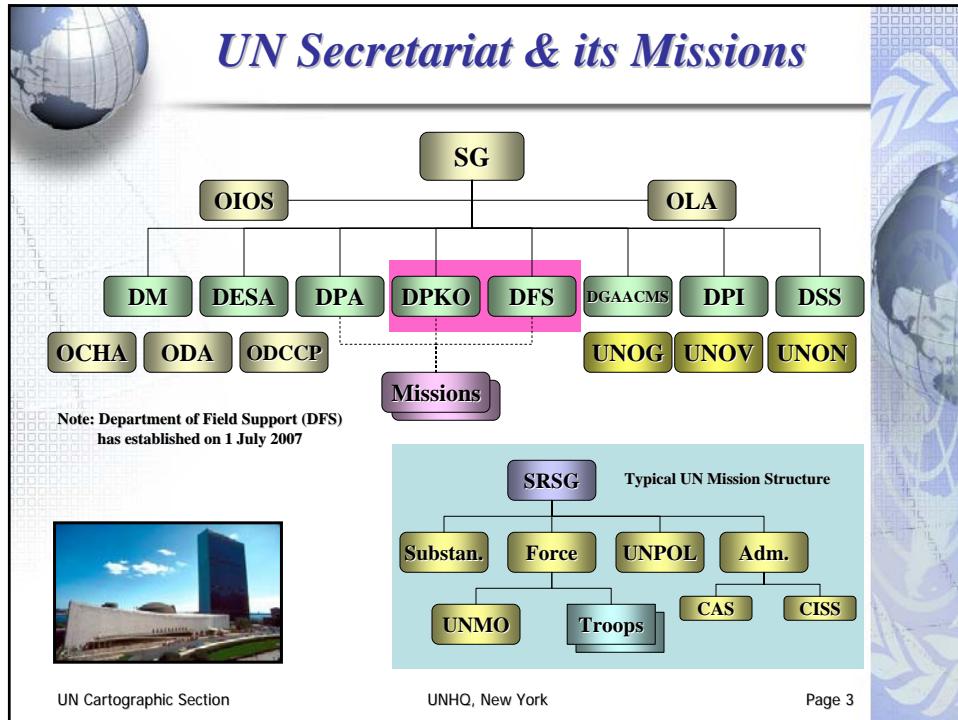
- UN Secretariat and its Missions
- Cartographic Section
  - Area of Responsibility
  - Geo Operational Concept
  - Field Mission Geo Operations
- Major developments
  - Capacity Building
  - New GIS Capacity in missions
  - Partnerships
- International Boundary Issues
- Questions & Answers



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## ***UN Peace Operations statistics***

**MISSIONS ADMINISTERED BY THE DEPARTMENT OF PEACEKEEPING OPERATIONS**

- UNOSSO\* 1996 - MINUSO 2000 - MINURCAT 2002 - UNMIS 1998 - UNFICYP 1964 - UNOMIG 1993 - UNIFIL 1978 - UNDOF 1991 - UNMOGIP 1993 -
- MINUSTAH 2004 - UNMIL 2003 - MONUC 2007 - BINUB\* 2009 - UNMEE 2003 - UNTSO 1948 - UNITM 1998 -
- \* political or peacebuilding mission

**Peacekeeping Financial Aspects**

- Approved resources (Jul 2008 - Jun 2009): \$7.1 billions
- Approved resources (Jul 2007 - Jun 2008): \$5.3 billions
- Total cost of operations since 1948: \$54.0 billions

	PKO	PBO
• Peacekeeping operations since 1948:	63	
• Current Operations:	16	11
• (Peace-building administered by DPKO):	3	
• Uniform personnel:	87,957	474
• Countries contributing troops/polices:	119	
• International civilian staff:	5,177	845
• Local civilian staff:	12,461	1,843
• UN Volunteers:	1,908	252
• Total (16 peacekeeping):	107,503	3,406
<b>• Total 19 operations:</b>	<b>109,571</b>	

**ONGOING POLITICAL AND PEACEBUILDING MISSIONS**

- UNOWA 1993 - BONUA 1998 - UNSCO 1993 - UNAMI 2003 - UNAMA\* 2002 - UNBIN 1997 -
- UNOSIL\* 1996 - UNOGIS 2007 - BINUB\* 2009 - Office of the United Nations Special Coordinator for Lebanon 2007 -

Map No. 414101E Rev. 2B - UNITED NATIONS  
August 2007

\* Mission directed and supported by the Department of Peacekeeping Operations

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## ***Cartographic Section***

**Objective:**

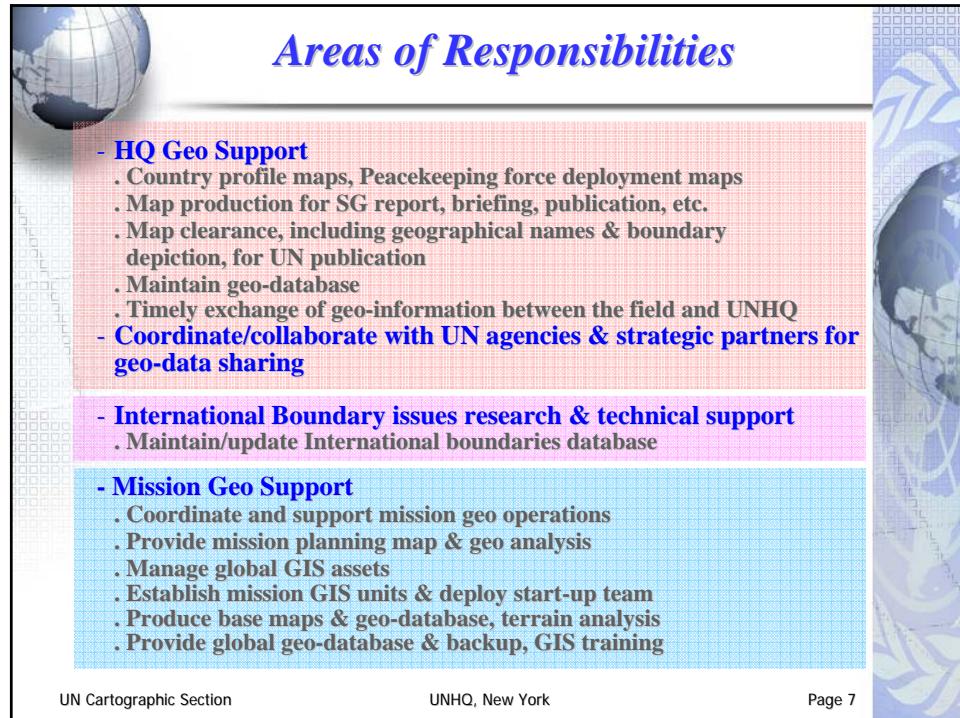
**Cartographic Section provides geographic support to the full range of United Nations Operations**

**Principal duties to provide:**

- ⇒ Accurate and timely geospatial information in support of the decision-making and operational needs of
  - the Security Council and the UN Management
  - the Secretariat
  - direct support to UN Peace Operations (DPKO, DPA & DFS)
- ⇒ Coordination & support of Field Mission GIS operations.
- ⇒ Technical assistance on International Boundary issues.

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## ***Areas of Responsibilities***



**- HQ Geo Support**

- Country profile maps, Peacekeeping force deployment maps
- Map production for SG report, briefing, publication, etc.
- Map clearance, including geographical names & boundary depiction, for UN publication
- Maintain geo-database
- Timely exchange of geo-information between the field and UNHQ

**- Coordinate/collaborate with UN agencies & strategic partners for geo-data sharing**

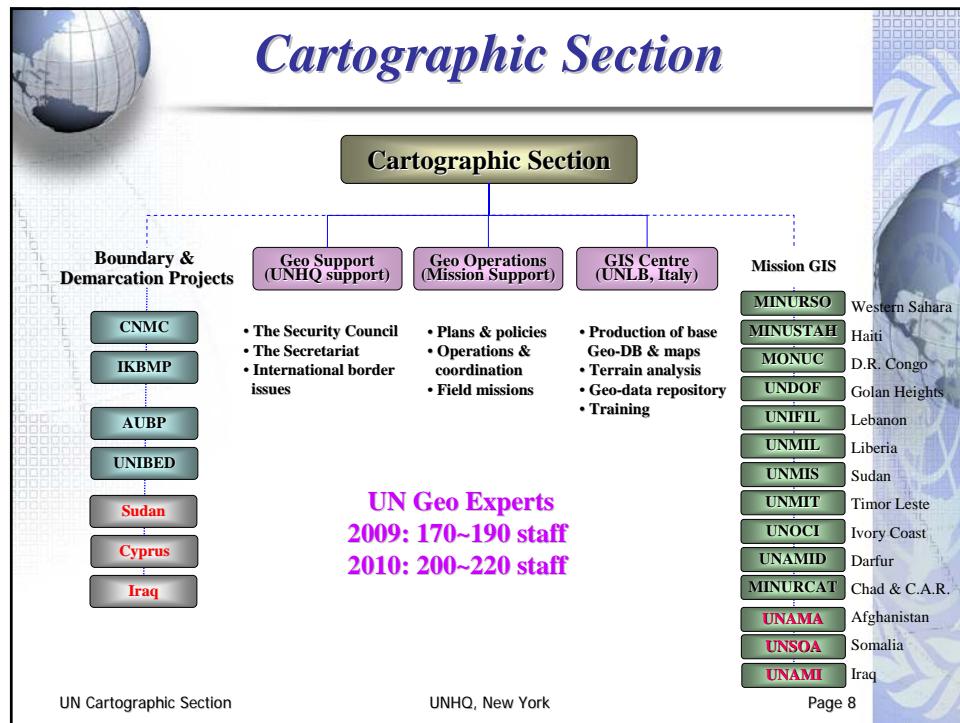
**- International Boundary issues research & technical support**

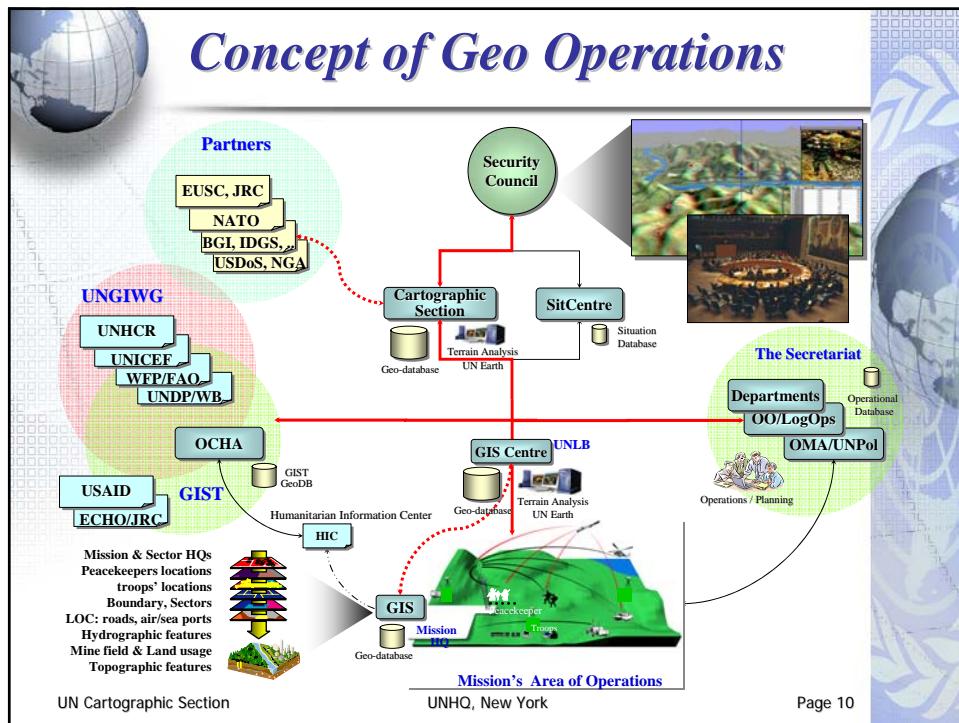
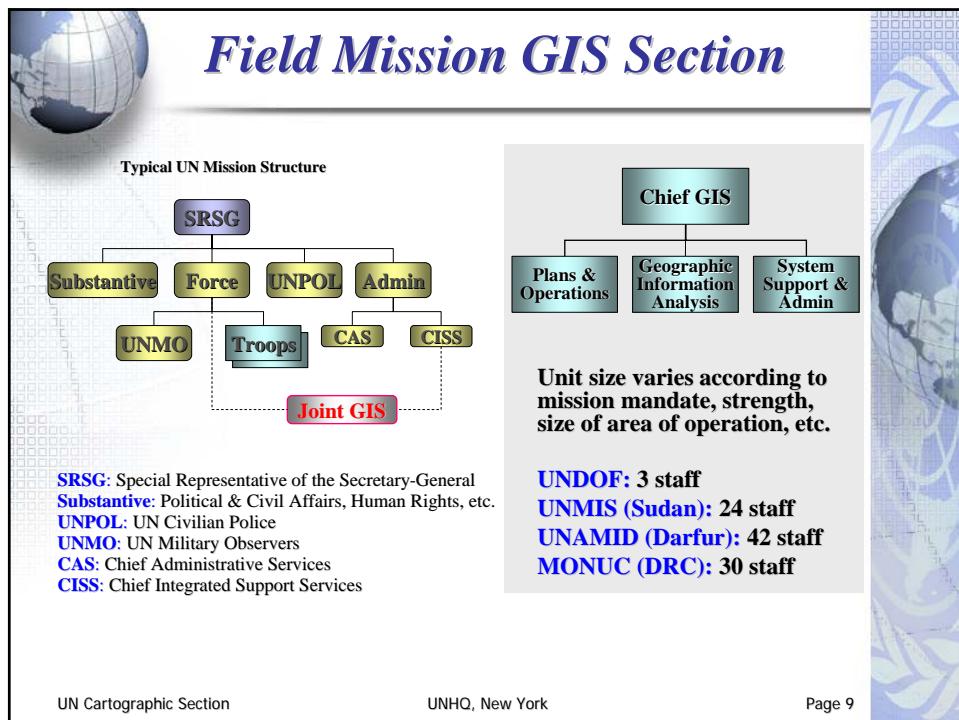
- Maintain/update International boundaries database

**- Mission Geo Support**

- Coordinate and support mission geo operations
- Provide mission planning map & geo analysis
- Manage global GIS assets
- Establish mission GIS units & deploy start-up team
- Produce base maps & geo-database, terrain analysis
- Provide global geo-database & backup, GIS training

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### 3 Tiers: UNHQ-UNLB-Missions

1. Geo-database  
2. UN Earth (Google-Earth)  
3. Image library

UNLB GIS Centre: UN Geo-Database repository & Bridge

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### Major Developments

- Capacity building
  - . Established GIS Centre (Oct 2007)
  - . Mapping (Vmap2) projects (UNDOF, UNIFIL and Darfur)
  - . Terrain Analysis and Groundwater Assessment
  - . UN-EC Gazetteer system
  - . UN Geo-database
  - . UNmap (1:1, 5, 10 millions)
  - . UN Earth (Google Earth enterprise system)
  - . UN Image Library
  - . Map portal (UN Internet & Intranet)
  - . Field Reporting Tool (for data collection & verification)
  - . UN World Map
  - . SOPs & Guidelines
  - . Established Systems Contracts – ESRI, MDA Geo, SPOT
  - . Operational & System architecture
  - . GIS start-up: Strategic deployment stocks (SDS) & GIS Rapid Deployable Module (containerized)

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# *Major Developments*



**Mission GIS start-up**

- UNAMID (Darfur)
- MINURCAT (Chad/CAR)

- **UNAMA (Afghanistan) ... June 2009**
  - . Staffing: P3+UNV (2009), additional 2 staff (2010)
  - . Chief GIS: Ms. Oluyemisi Olugbile
  - . Start-up team deploy: 27 July
  - . Will be operational in mid August (election)
- **UNSOA (Somalia) ... July 2009**
  - . Staffing: P4+2NPO, to be expanded under UN operations
  - . Chief GIS: Mr. Rob Gray
  - . Start-up team deploy: end August
- **UNAMI (Iraq) ... Nov 2009**
  - . Staffing: 3 staff, ad hoc start-up in 2009
  - . One GIS Unit support UNAMI operations
  - . Start-up plan is under development

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# *Major Developments*



- Partnerships**
  - . EU Satellite Centre
  - . EC Joint Research Centre
  - . NATO Geo Section
  - . France (BGI)
  - . EUFOR-Chad/CAR
  - . US State Dept (Office of Geographer & Global Issue)
  - . Italy (DGS - Geospatial Section)
  - . G-MOSAIC (EU funded GMES initiative)
- Collaboration**
  - . Multinational Geospatial Co-production Program (MGCP)
  - . Belgium, Netherlands, Spain, USA
  - . Canada, Germany, ...
- Ad hoc support**
  - . Netherlands (Eastern DRC mapping)
  - . Romania (Vmap2)

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## ***Furthering Partnership***

To meet the Operational needs effectively & timely fashion within the given resource/capacity.

**“Avoid duplications, enhance synergy by cooperation”**

- Sharing geo-data, knowledge & experience
- Geo-data co-production (Darfur, Somalia, etc)
- Joint Task Force
- Joint Projects (e.g., evacuation, water source)
- Cross-training & education
- Technology exchange
- Staff exchange
- Other areas

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## ***Country Profile Maps***

**HORN OF AFRICA**

**ECONOMIC AND SOCIAL COMMISSION FOR ASIA AND THE PACIFIC**

**Members:**

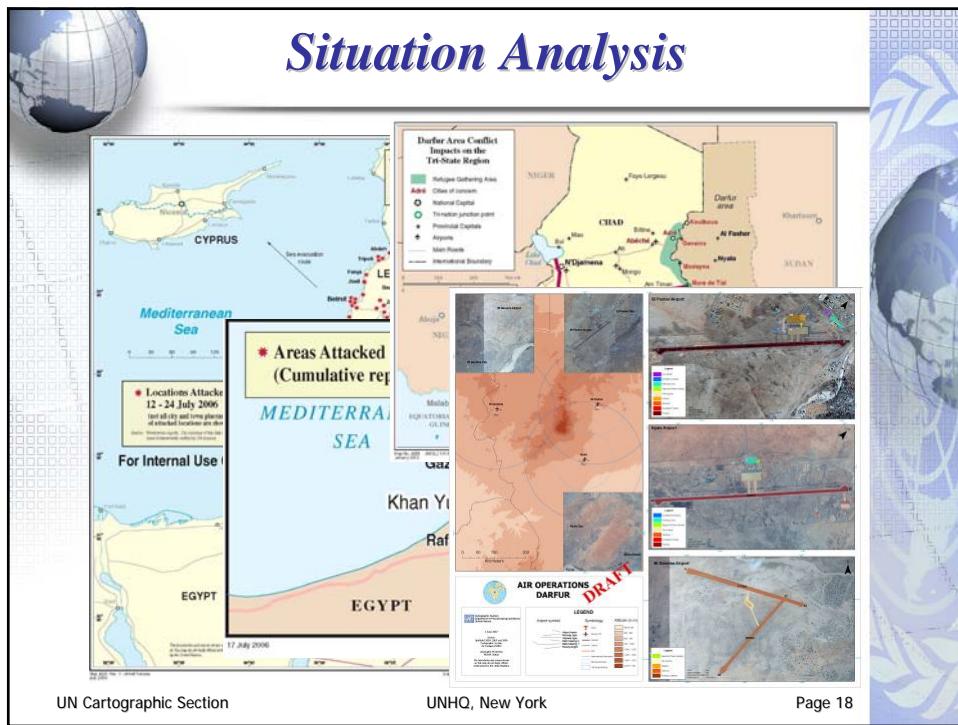
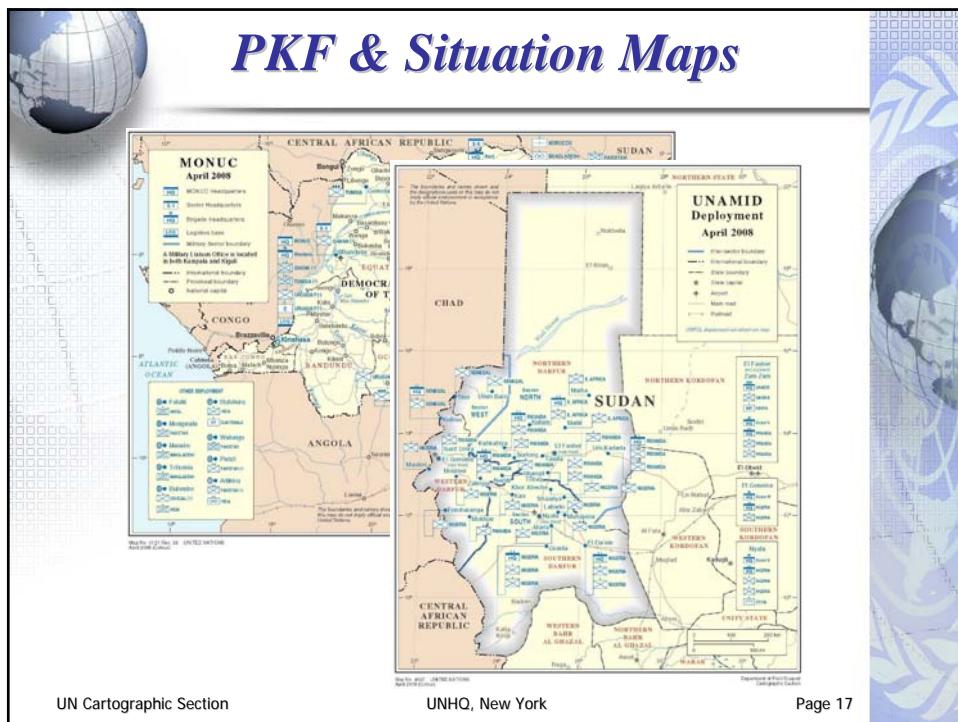
- Afghanistan
- Armenia
- Aruba
- Argentina
- Albania
- Bahrain
- Bangladesh
- Barbados
- Bolivia
- Bosnia and Herzegovina
- Brunei Darussalam
- China
- China, People's Republic of
- Cambodia
- Colombia
- Costa Rica
- Croatia
- Cuba
- Djibouti
- Egypt
- El Salvador
- Equatorial Guinea
- Eritrea
- Finland
- Georgia
- Greece
- Indonesia
- Iraq
- Iran, Islamic Republic of
- Israel
- Japan
- Kazakhstan
- Kenya
- Kuwait
- Lao People's Democratic Republic
- Macedonia
- Maldives
- Malta
- Moldova
- Mongolia
- Morocco
- Nicaragua
- Niger
- Nigeria
- Pakistan
- Palestine
- Panama
- Peru
- Philippines
- Poland
- Romania
- Russia
- Saint Lucia
- Saint Vincent and the Grenadines
- Sri Lanka
- Sudan
- Tajikistan
- Tunisia
- Turkey
- Uganda
- Ukraine
- United Kingdom
- United States of America
- Uruguay
- Viet Nam
- Zambia

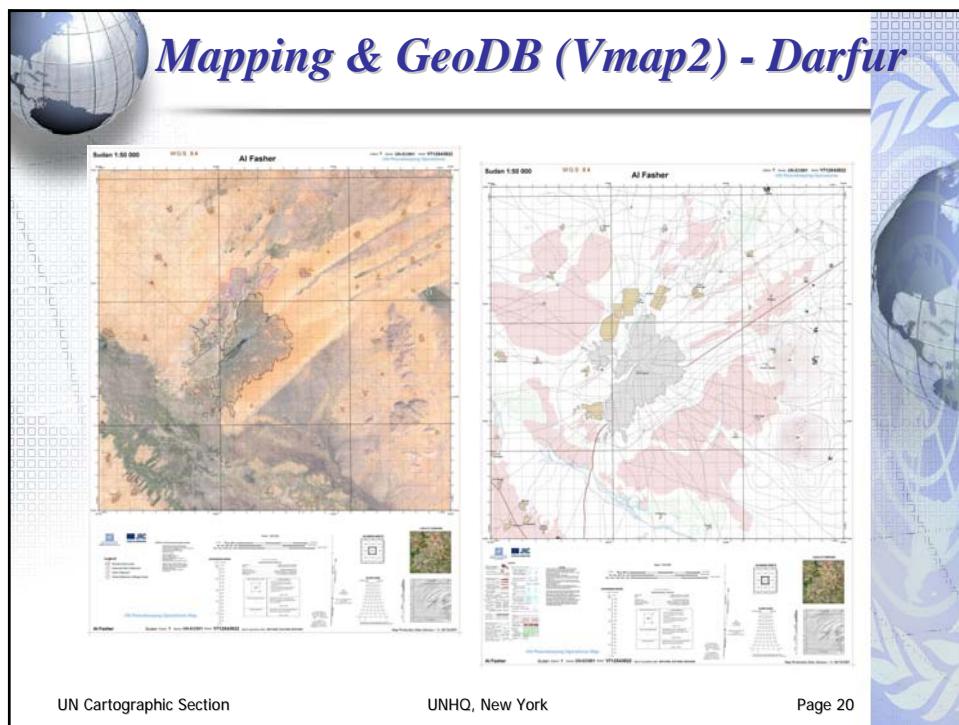
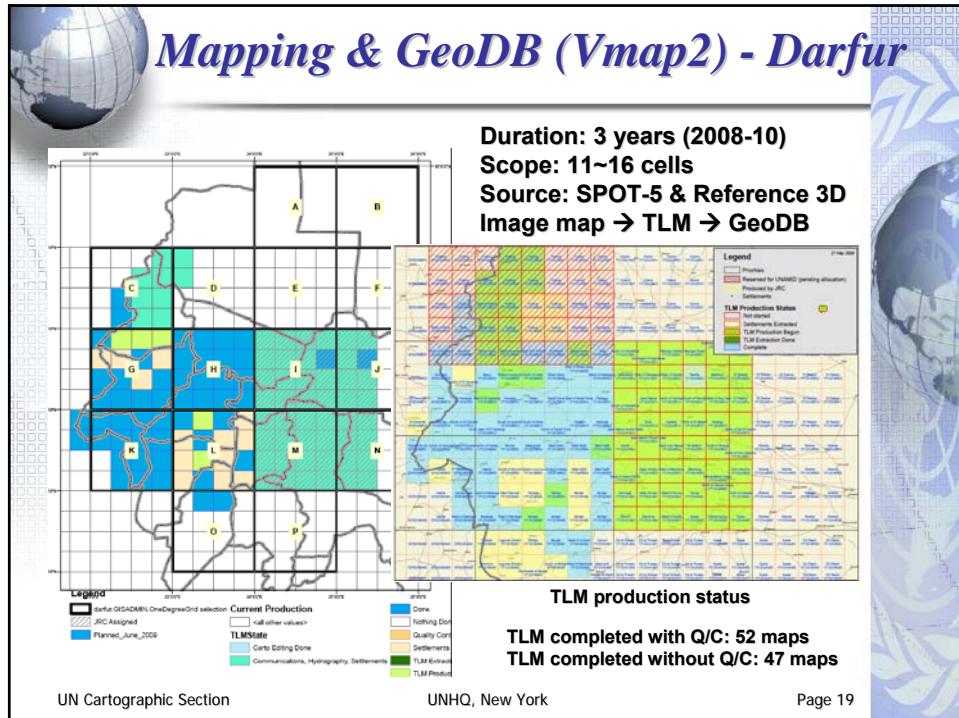
**Associate members:**

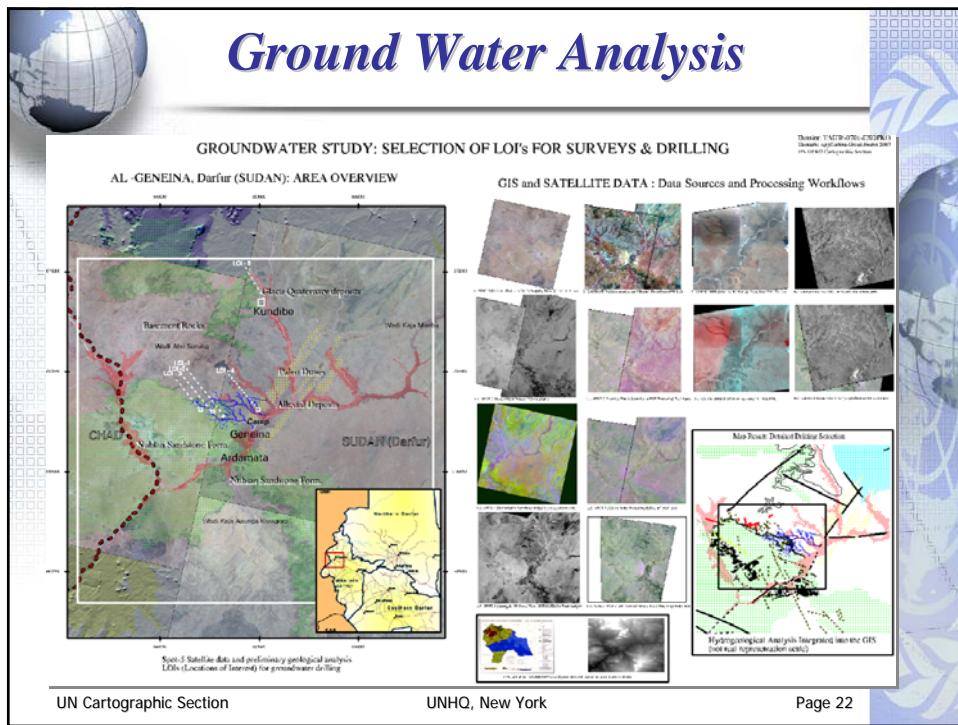
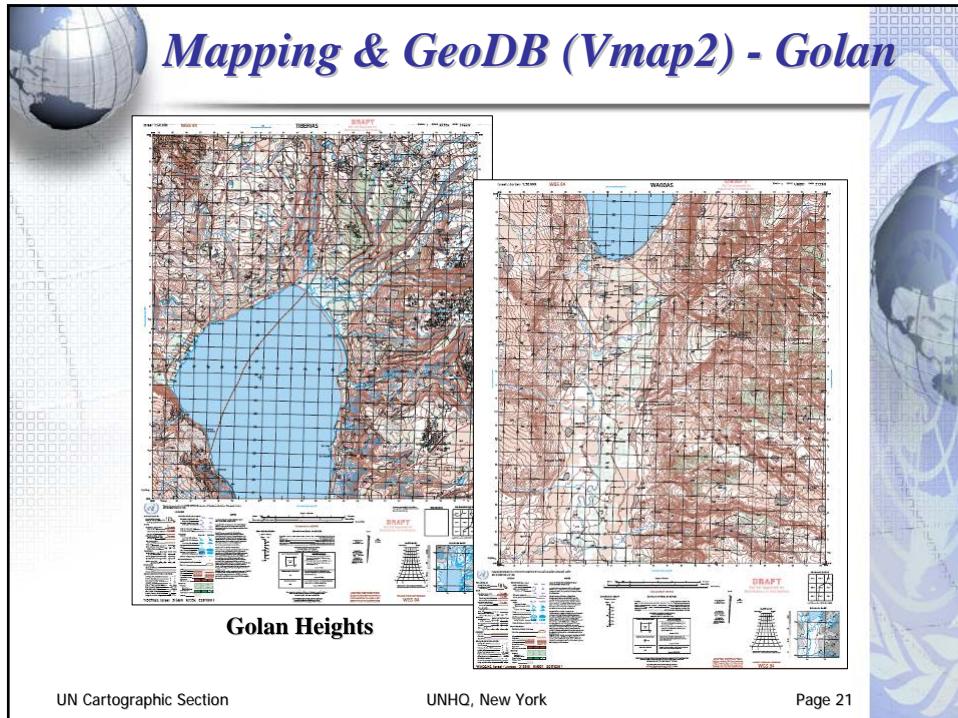
- Azerbaijan
- Commonwealth of the Independent States
- Côte d'Ivoire
- East Timor
- India
- Jordan
- Lebanon
- Qatar
- Guam
- Hong Kong, China
- Macau, China
- New Zealand
- Palestine

Map prepared and maintained by the Economic and Social Commission for Asia and the Pacific. Detailed information on member and associate status can be found at [www.unescap.org](http://www.unescap.org). Detailed information on regional centres can be found at [www.unescap.org/regionals](http://www.unescap.org/regionals).

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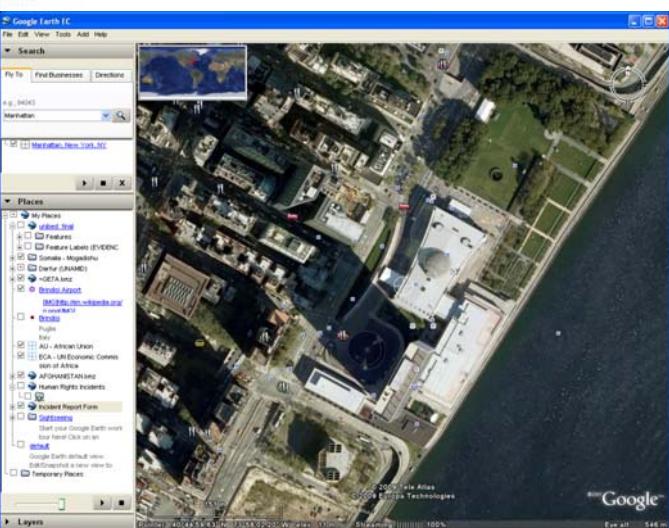
The screenshot shows a Microsoft Internet Explorer window displaying the 'Map Portal' of the United Nations Peace Operations. The title bar reads 'United Nations Peace Operations - Windows Internet Explorer'. The main content area features a map titled 'Top Troops Contributing to UN Missions' showing troop contributions across the globe. A sidebar on the right lists various map categories such as 'World in 1945', 'World in 2000', 'World profile', 'Political Operations', 'Troop Contributing Countries', etc. The footer includes links for 'Administrative Login', 'Contact Us', 'Copyright, United Nations, 2006', 'Terms of Use', and 'Privacy Notice'. The page is dated 'Document Library Updated : 7 Apr 2009'.

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The screenshot shows a Microsoft Internet Explorer window displaying the 'UN-EC Gazetteer'. The search results for 'abeche' are listed on the left, including options like 'Open Google Earth' and 'See on map'. The main content area shows a map from the 'European Commission Joint Research Centre Digital Atlas' with a red line highlighting a route or boundary. The map includes labels for 'SUDAN' and 'CHAD'. A legend on the right side of the map provides information about the different map layers and symbols used.

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## ***UN Earth (GE Enterprise)***



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## ***UNmap (1:10, 5 & 1 millions)***



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## Property Management

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## International Boundaries

- Border demarcation**
  - . EBBC (Eritrea-Ethiopia)
  - . CNMC (Cameroon-Nigeria)
  - . IKBMP (Iraq-Kuwait)
  - . Blue Line (Lebanon-Israel)
  - . Green Line (Cyprus)
- Technical assistance**
  - . AU Border Program
- Capacity building**
  - . Border knowledge base
  - . Cooperation with major players

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## International Boundaries

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## Boundary Knowledge Base

### Knowledge base for International boundaries

- Gather authoritative source information and evidence on international treaties such as treaty maps, coordinates, boundary text description, satellite imagery...
- Compile the information in a seamless and comprehensive geo-database on international boundaries
- Provide a user friendly interface to key players to access the compiled geo-database on boundaries
- Serve as knowledge base for delimitation process

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## ***Boundary Knowledge Base***

**Collection of evidence ...**

International Court of Justice  
Benin Niger boundary decision

League of Nations  
Togoland Boundary Commission

Other source: Chad - Sudan boundary

UN Treaty Section  
Tunisia Algeria boundary treaty

UN Treaty Section – Malawi Mozambique boundary treaty

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League of Nations  
Libya and Egypt boundary treaty

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