


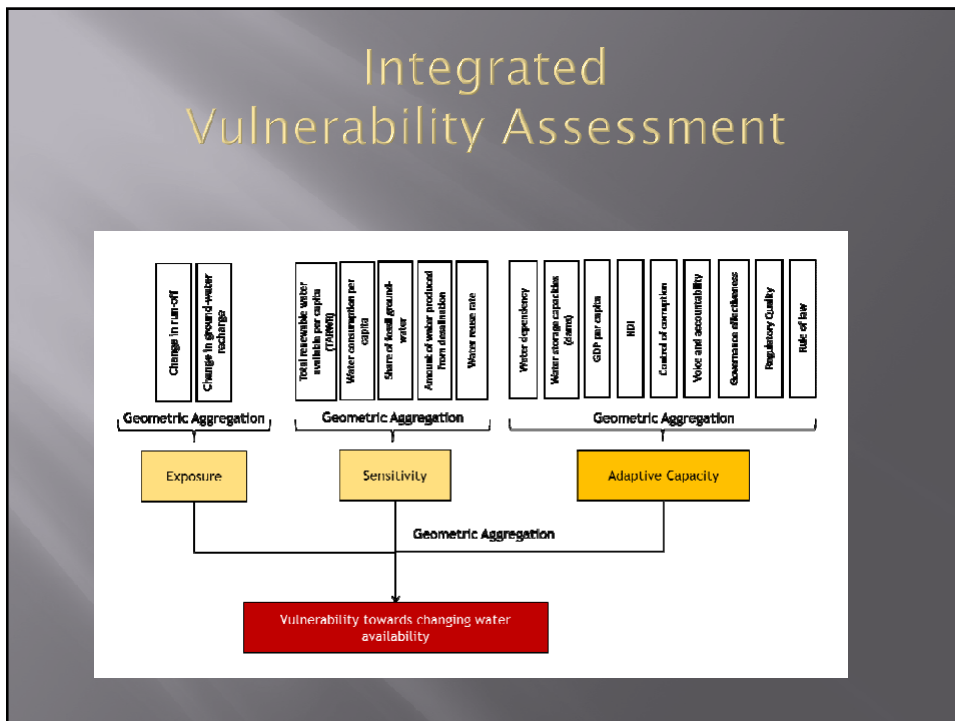
المركز العربي لدراسات المناطق الجافة والأراضي القاحلة
The Arab Center for the Studies of Arid Zones and Dry Lands
ACSAD

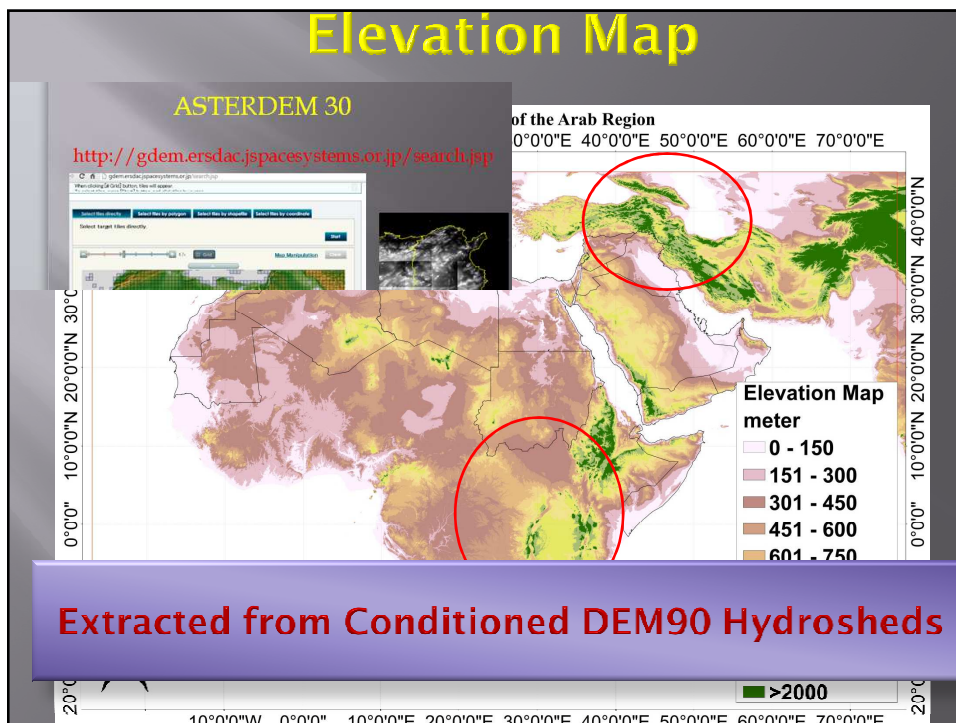
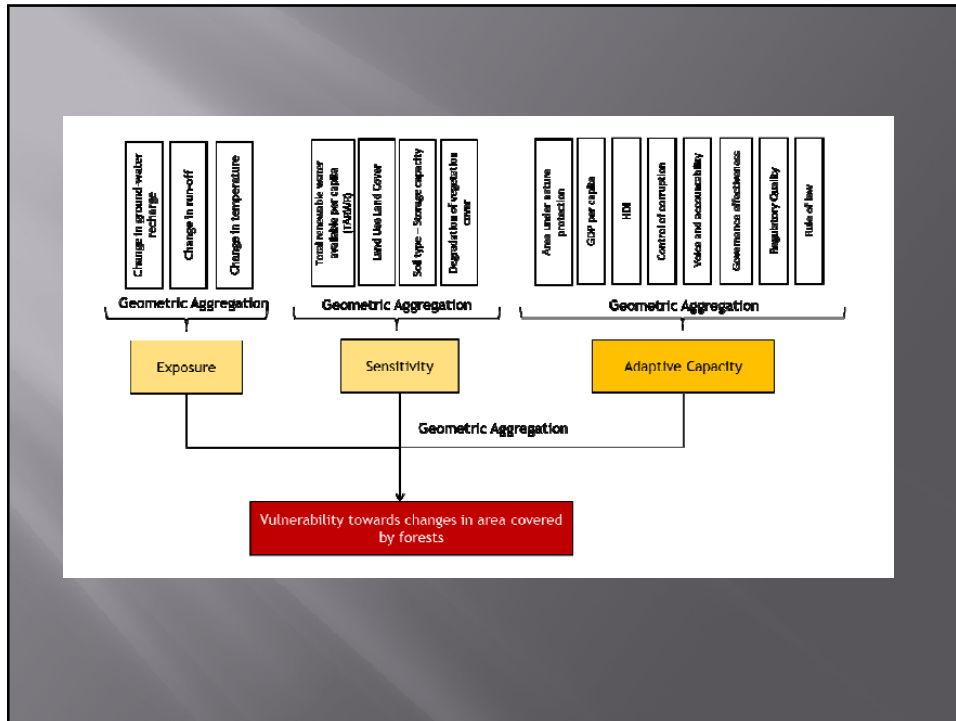


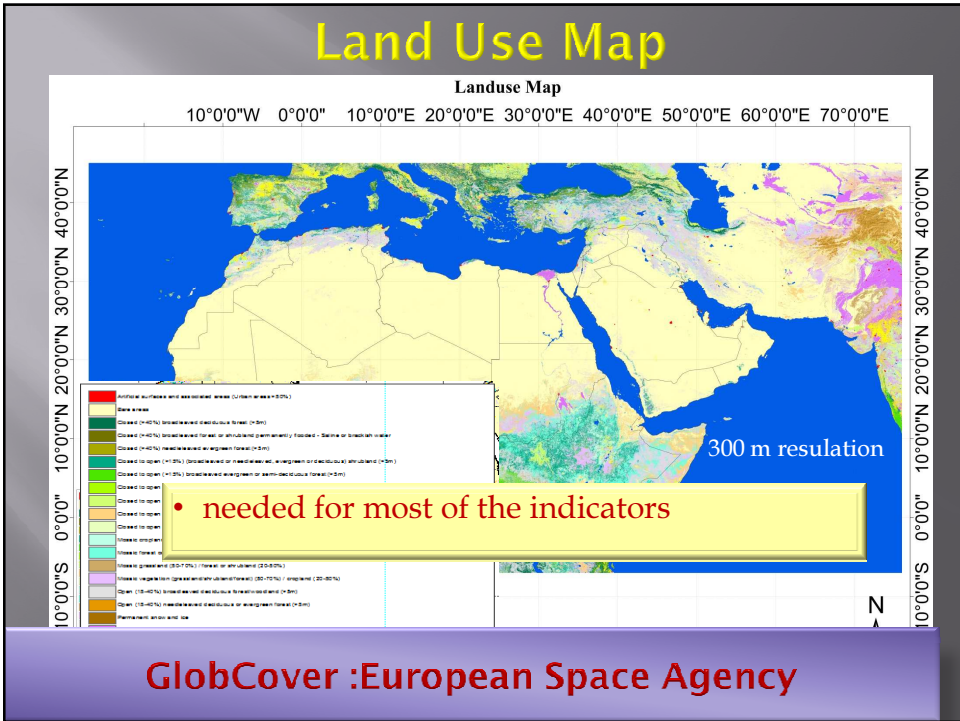
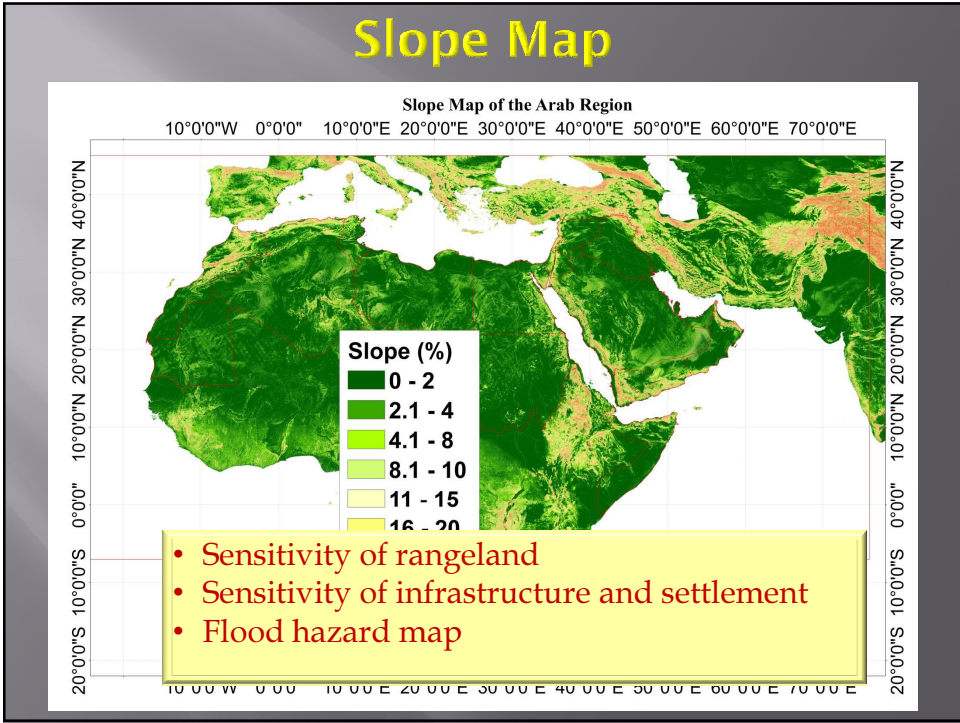
CONVERSION OF REGIONAL DATASETS FOR APPLICATION ACROSS THE ARAB DOMAIN

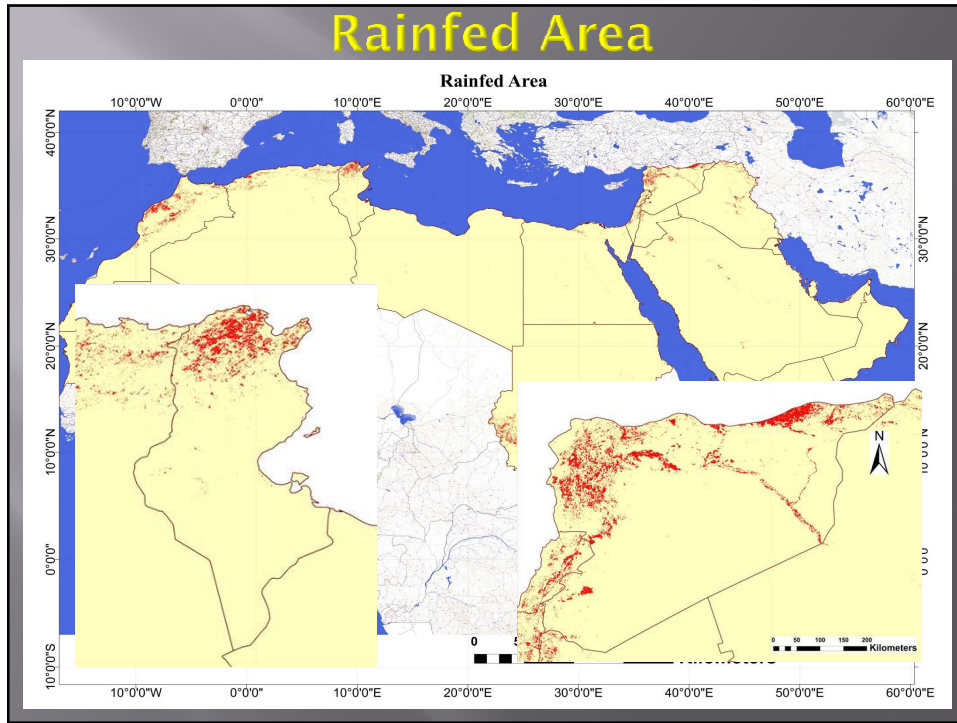
Ihab Jnad
Hiam Alashkar

The Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)









Irrigated Area

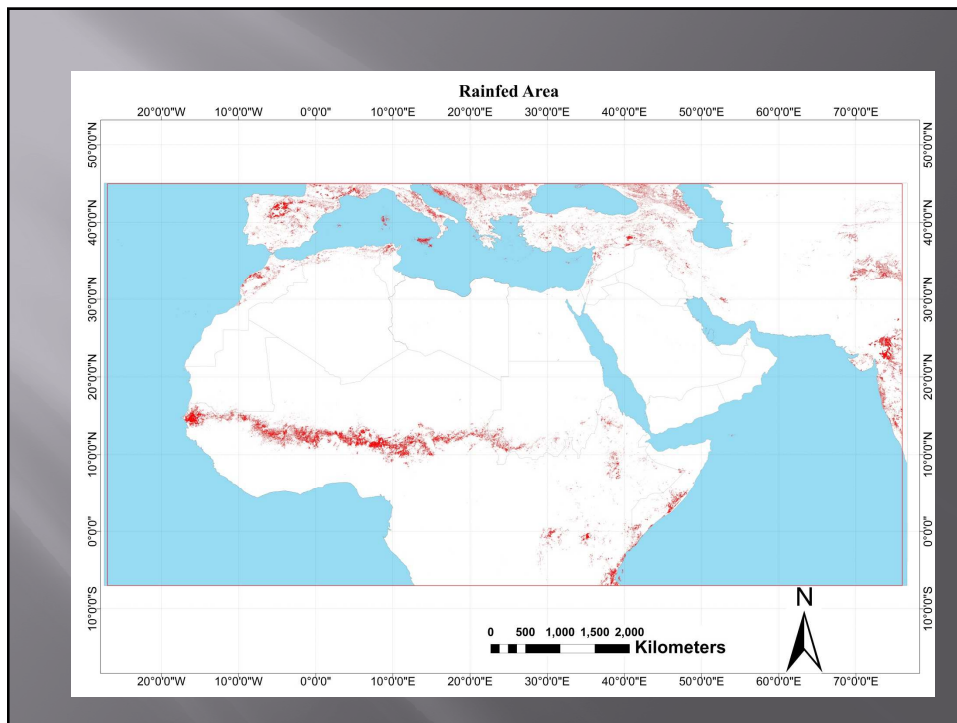
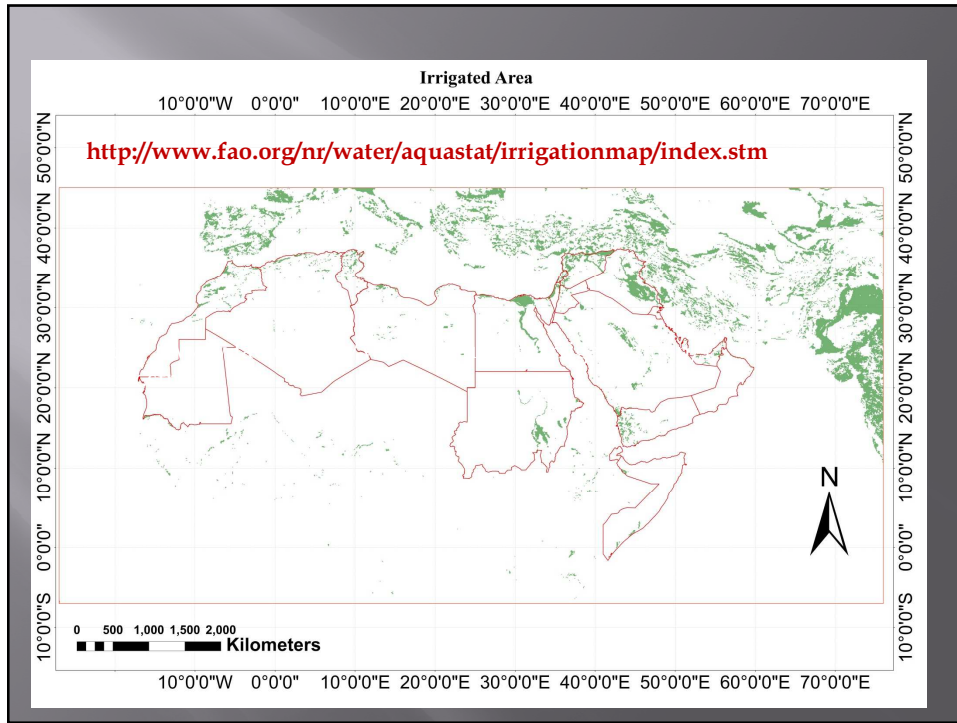
GLOBAL MAP OF IRRIGATION AREAS - VERSION 5

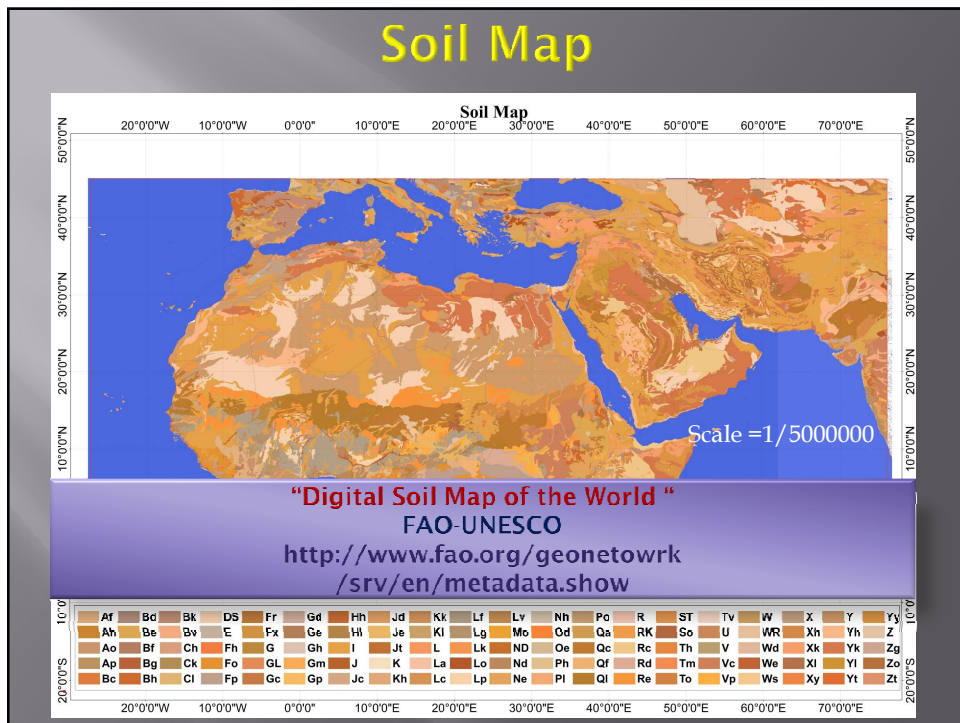
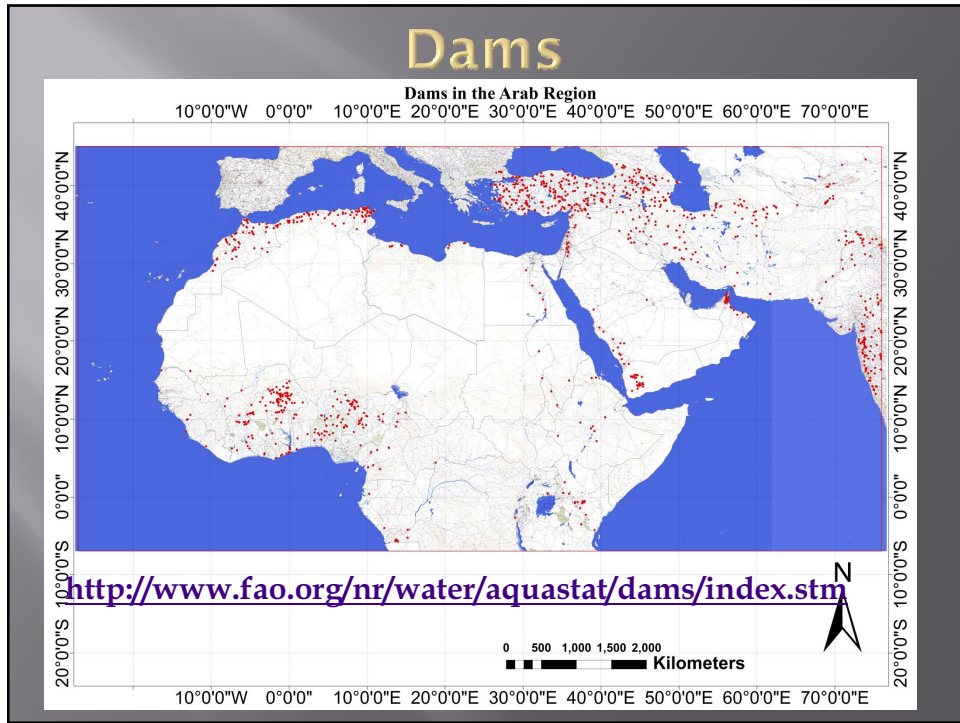
Identification info

| | |
|----------------------|--|
| Title | Global |
| Date | 2013-03-01 |
| Revision | Revised |
| Version | 5 |
| Distribution | Digital |
| Presentation form | Grid with frames |
| Abstract | Friedrich (father) person genre difference |
| Purpose | This is On go |
| Status | irrigate |
| Descriptive keywords | World |
| Language | English |
| Character set | UTF8 |
| Topic category code | Farming |

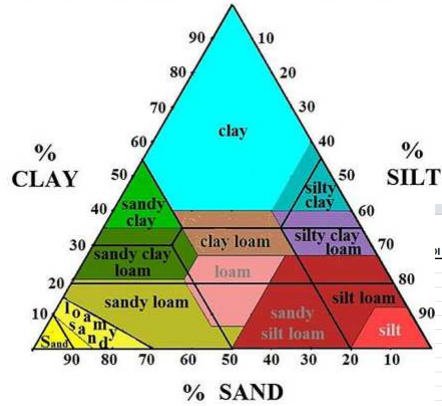
GLOBAL MAP OF IRRIGATED AREAS

0 200 400 800 Kilometers at the equator

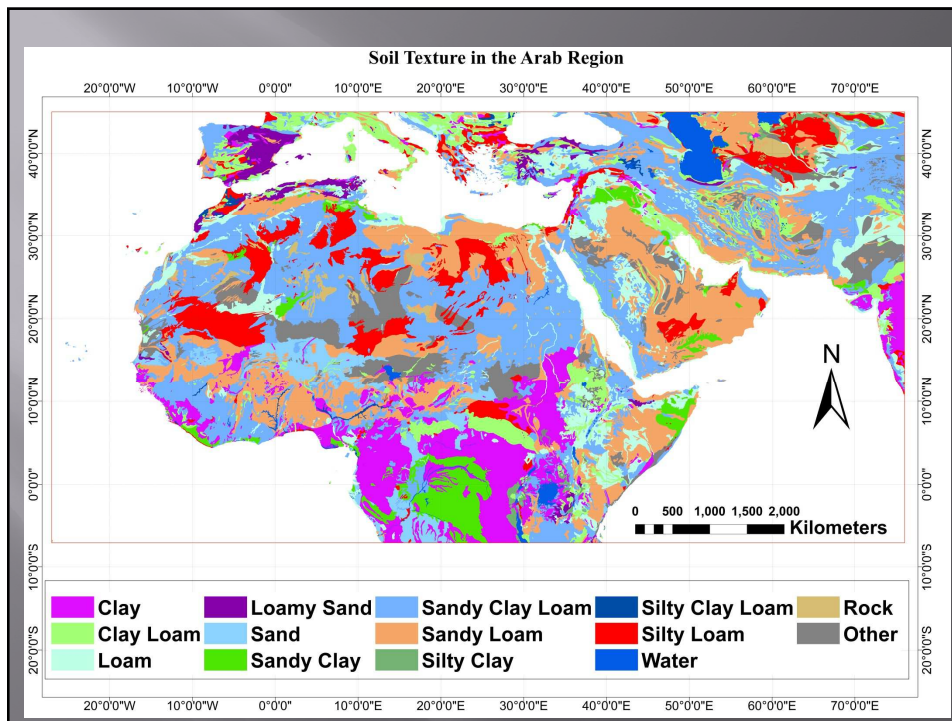




Preparing Soil Texture Map



| | B | D | F | clay soil c |
|---|----------------------|----------------------|----------------------|-------------|
| 1 | sand_topsoil_percent | silt_topsoil_percent | clay_topsoil_percent | |
| | 40.1 | 21.5 | 38.4 | |
| | 32.7 | 30.3 | 37.1 | |
| | 36.4 | 37.2 | 26.4 | |
| | 34.2 | 15.5 | 50.2 | |
| | 34.2 | 20.4 | 45.4 | |
| | 55.2 | 21.0 | 23.8 | |
| | 81.6 | 6.9 | 11.7 | |
| | 23.3 | 26.0 | 50.7 | |
| | 42.4 | 31.2 | 26.4 | |
| | 42.9 | 27.6 | 29.5 | |
| | 40.2 | 50.3 | 9.6 | |
| | 48.5 | 30.8 | 20.7 | |
| | 42.8 | 20.4 | 36.8 | |
| | 39.1 | 26.5 | 34.6 | |
| | 58.9 | 16.2 | 24.9 | |
| | 39.6 | 39.9 | 20.6 | |
| | 70.8 | 12.8 | 16.5 | |
| | 11.7 | 36.8 | 51.5 | |
| | 39.1 | 37.0 | 23.9 | |
| | 16.5 | 48.9 | 34.4 | |
| | 36.7 | 40.3 | 23.1 | |
| | 87.5 | 6.2 | 6.4 | |



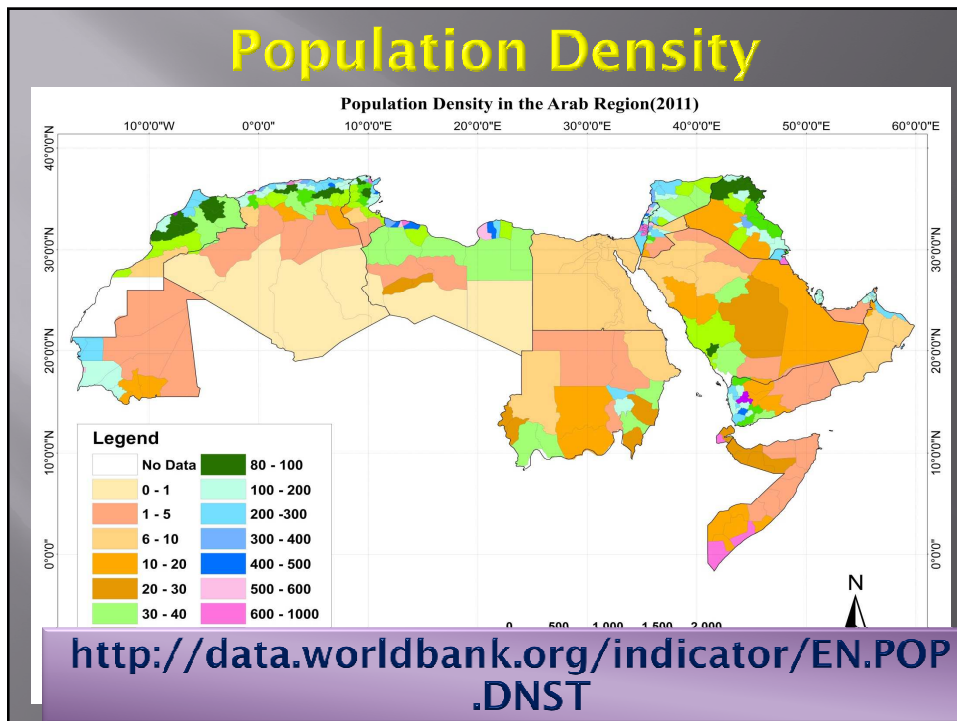
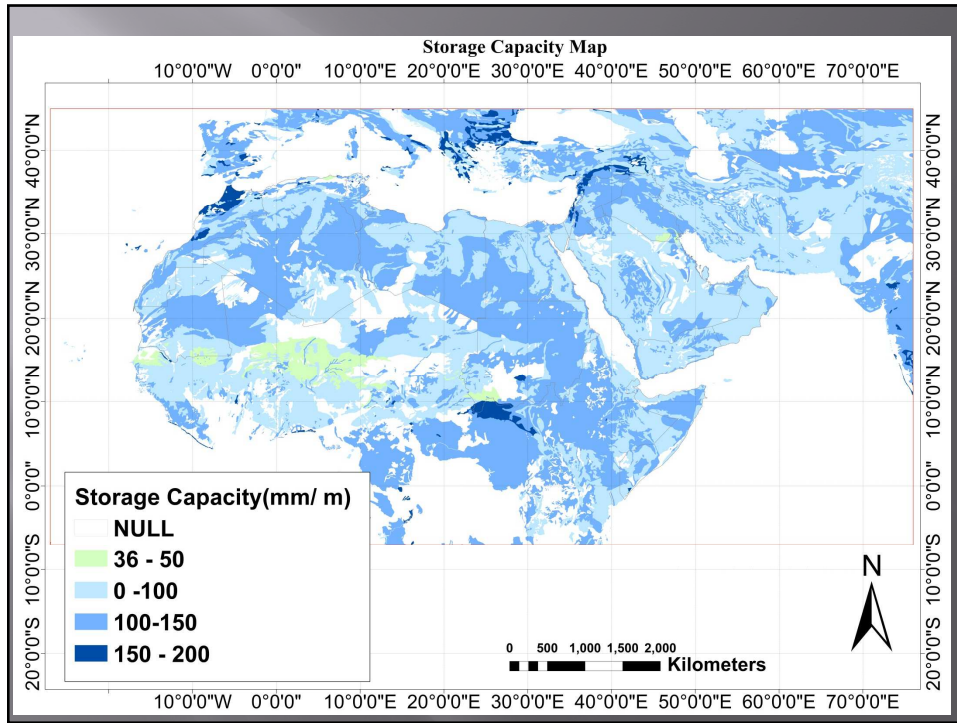
- ▣ Based on the soil texture , some physical properties of the soil such as field capacity and wilting point were estimated

Estimating Storage Capacity of the Soil

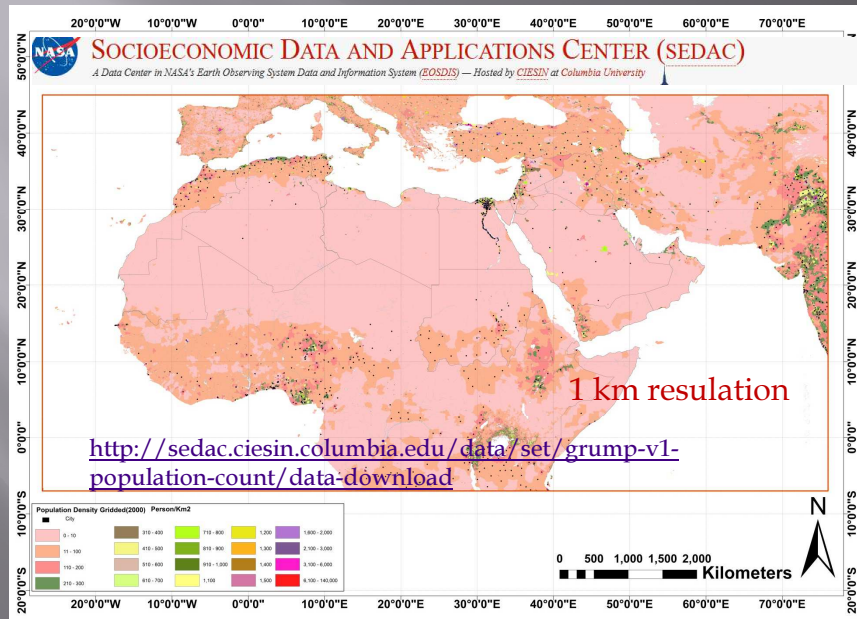
- ▣ **Storage Capacity**

$$SC = \left(\frac{Fc - Wp}{100} \right) * 1000$$

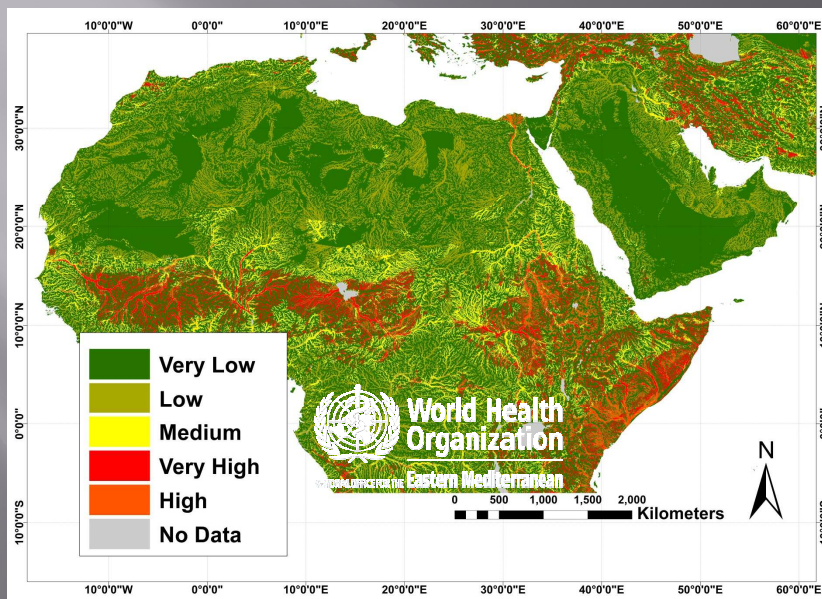
- ▣ *Fc: field capacity.*
- ▣ *Wp: wilting point*
- ▣ *d: soil depth.*



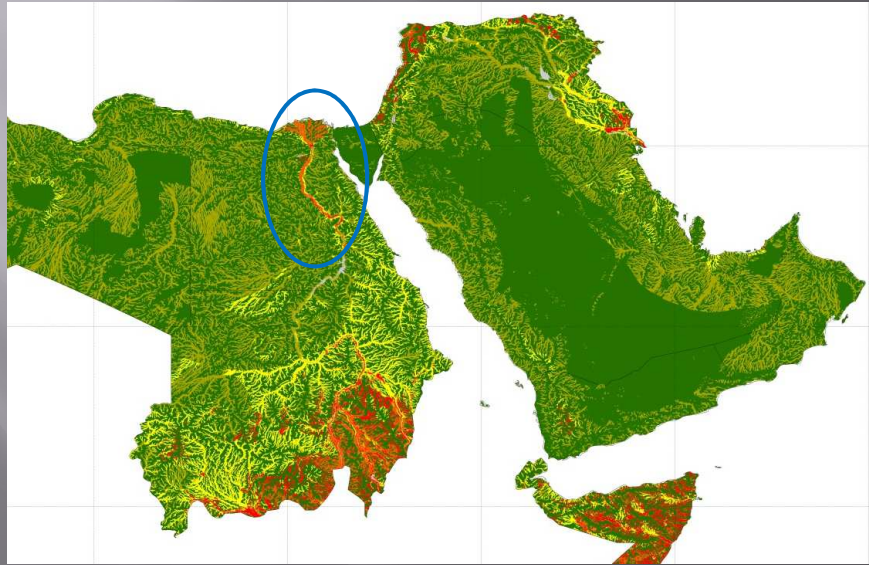
Gridded Population Density(2000)



Flood Hazard Map



Flood Hazard Map



UNISDR PreventionWeb

desinventar
Disaster Information Management System

POWERED BY
UNISDR
UN
DIP

Welcome to Desinventar, a free, open source Disaster Information Management System

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Basic methodology →
Disaster classification →
Definition of effects →
Data sources →
Recent publications →
Desinventar on the GfT →

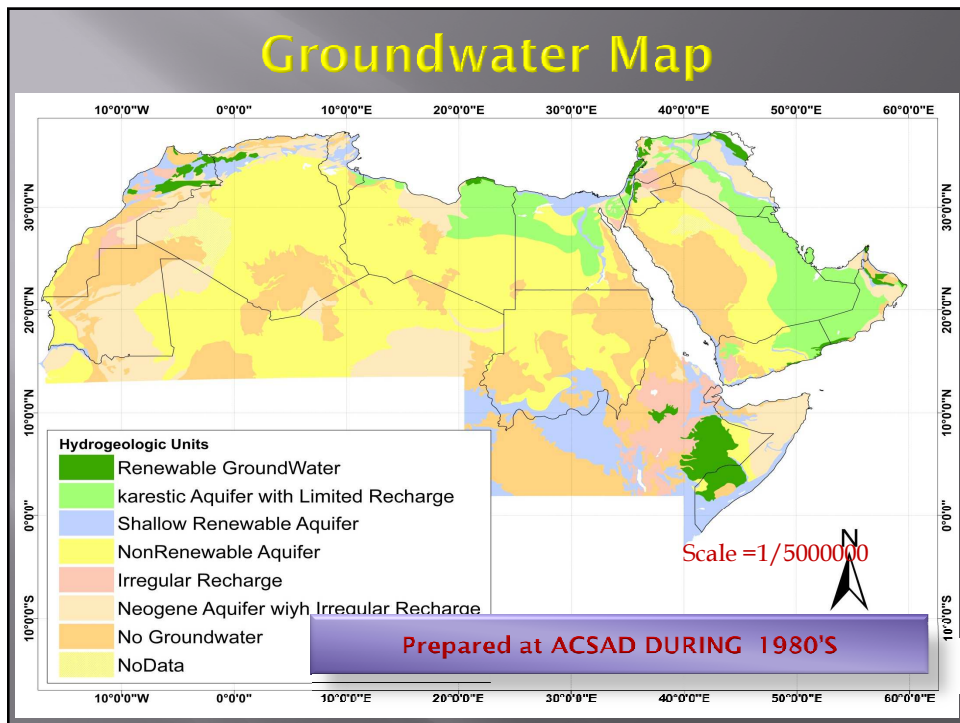
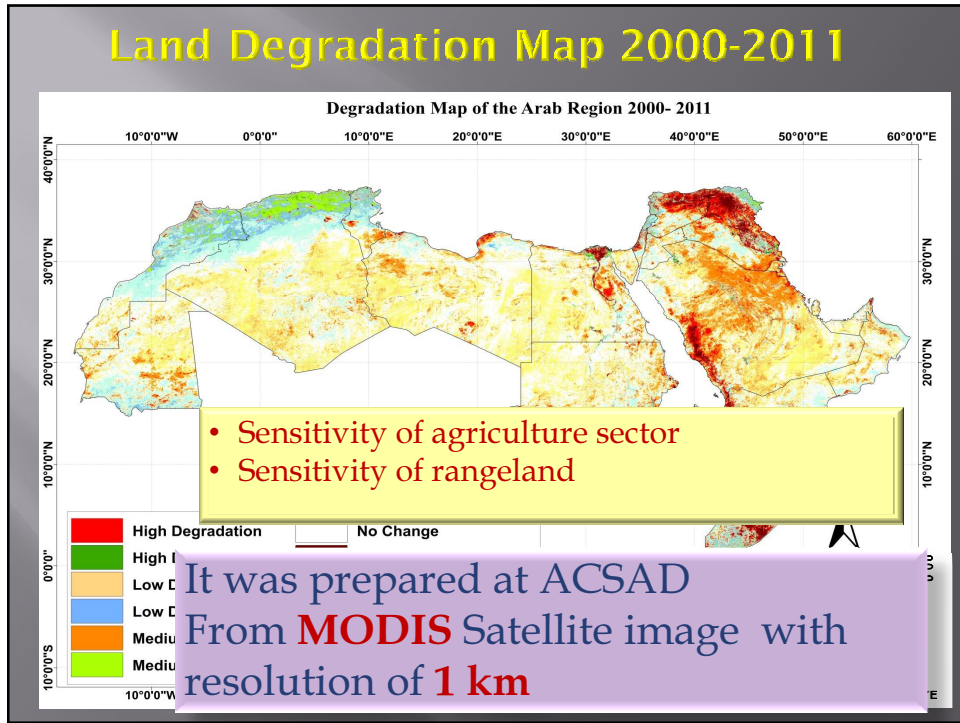
Available datasets worldwide
72 Disaster Loss Accounting Systems are

Indian Ocean Islands
Important steps to strengthen their individual and collective disaster risk management.

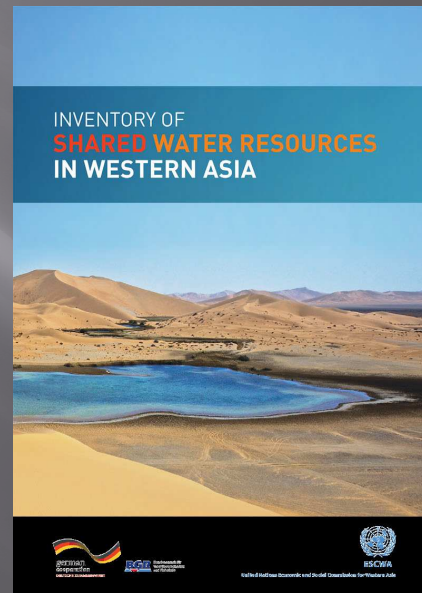
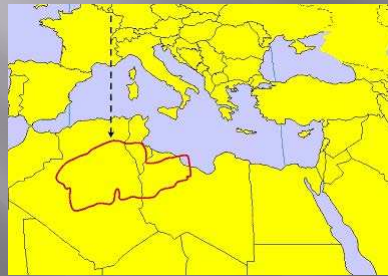
Tunisia
Tunisia's database a DRR 'game-changer'

Latin America & Caribbean
The 'silent disaster of local losses'

GAR
Global Assessment Report
on Disaster Risk Reduction



- We are trying to improve this map using different sources such as



- The **change in rainfall and temperature** will be available from the climate model
- The **runoff and recharge** to ground water will be available from the hydrological model

