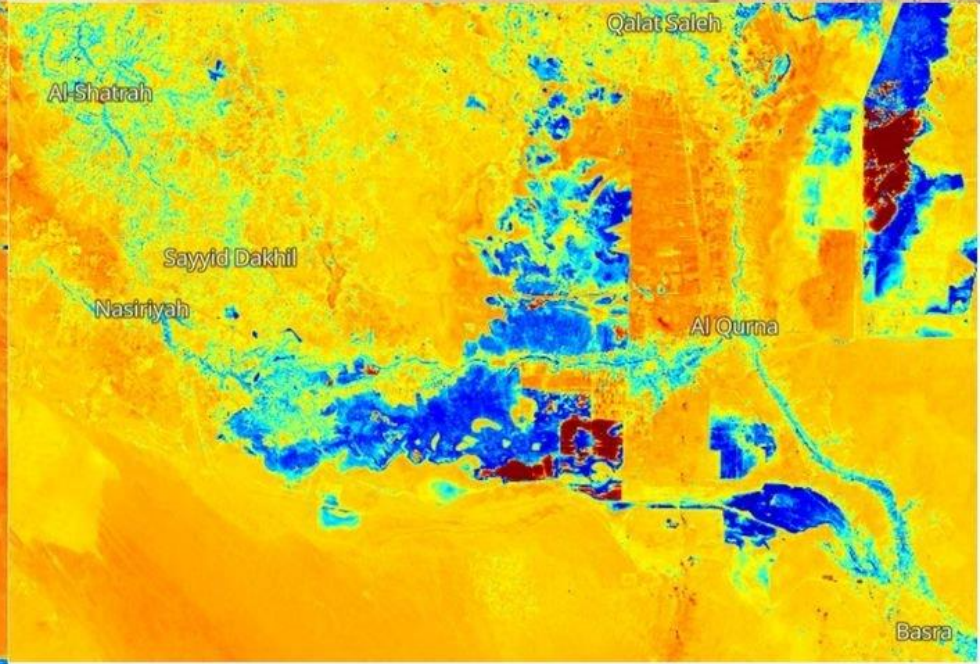
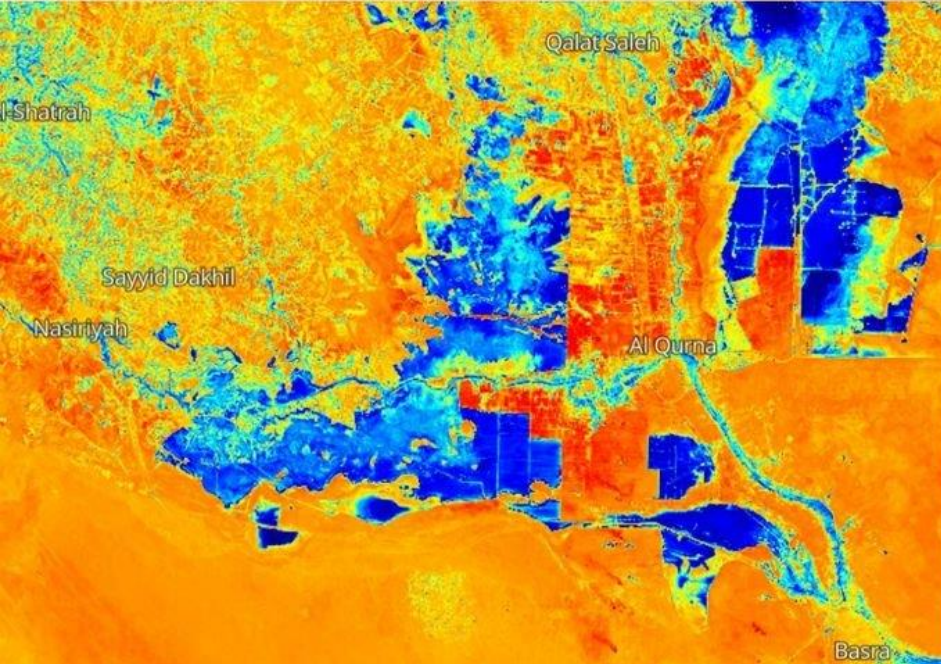
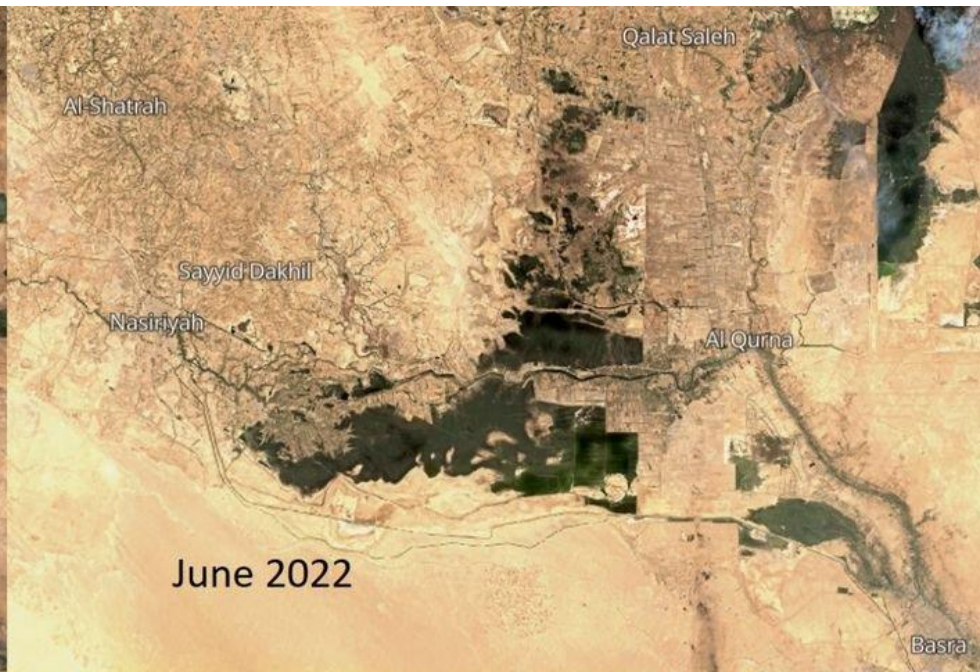




أنقذوا أهوار العراق
المعمار الأكاديمي موفق جواد الطائي



Chlorite cylinder seal

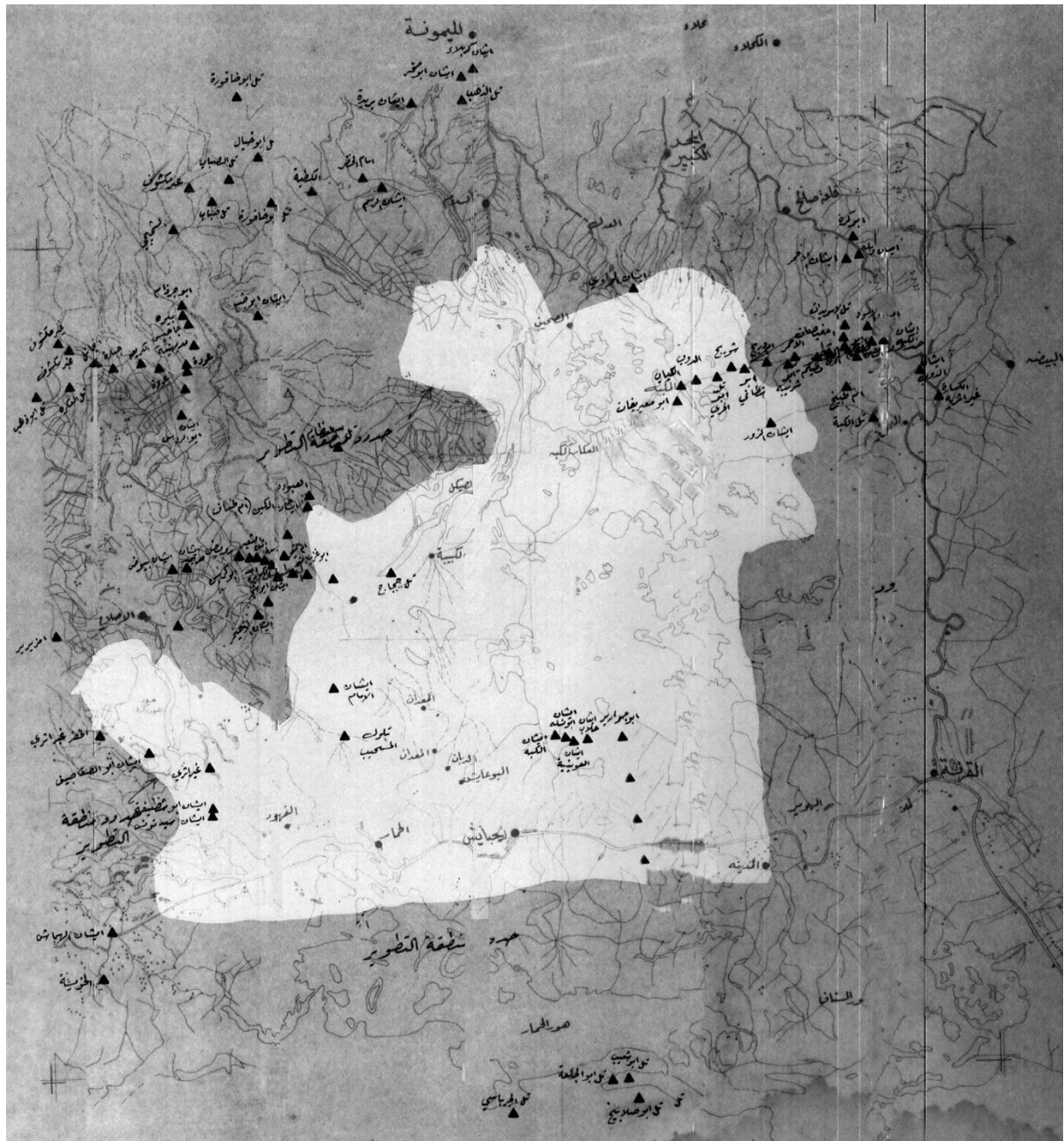
Late Akkadian or Neo-Sumerian, 2200-2100 BC

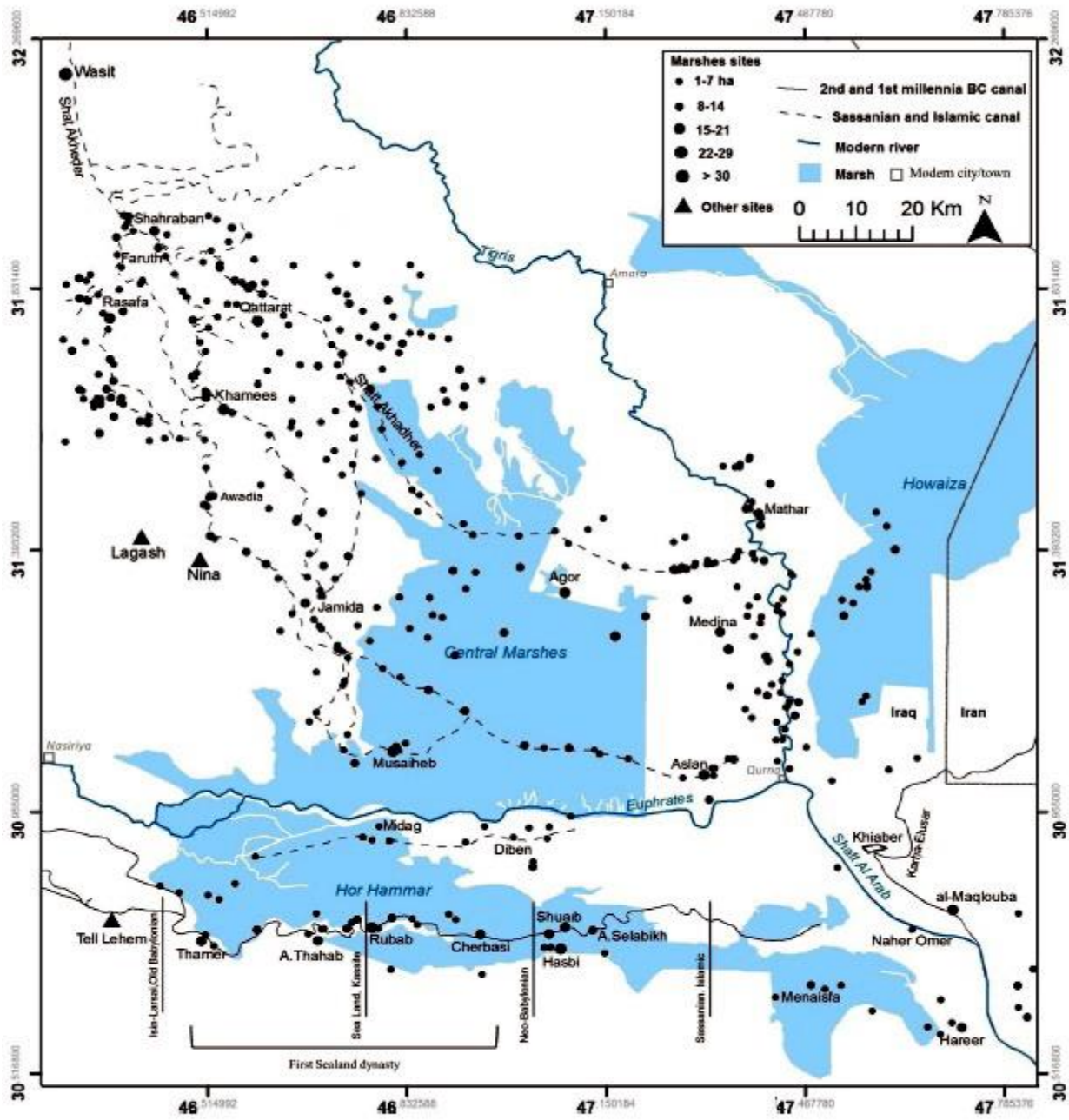
Provenance unknown

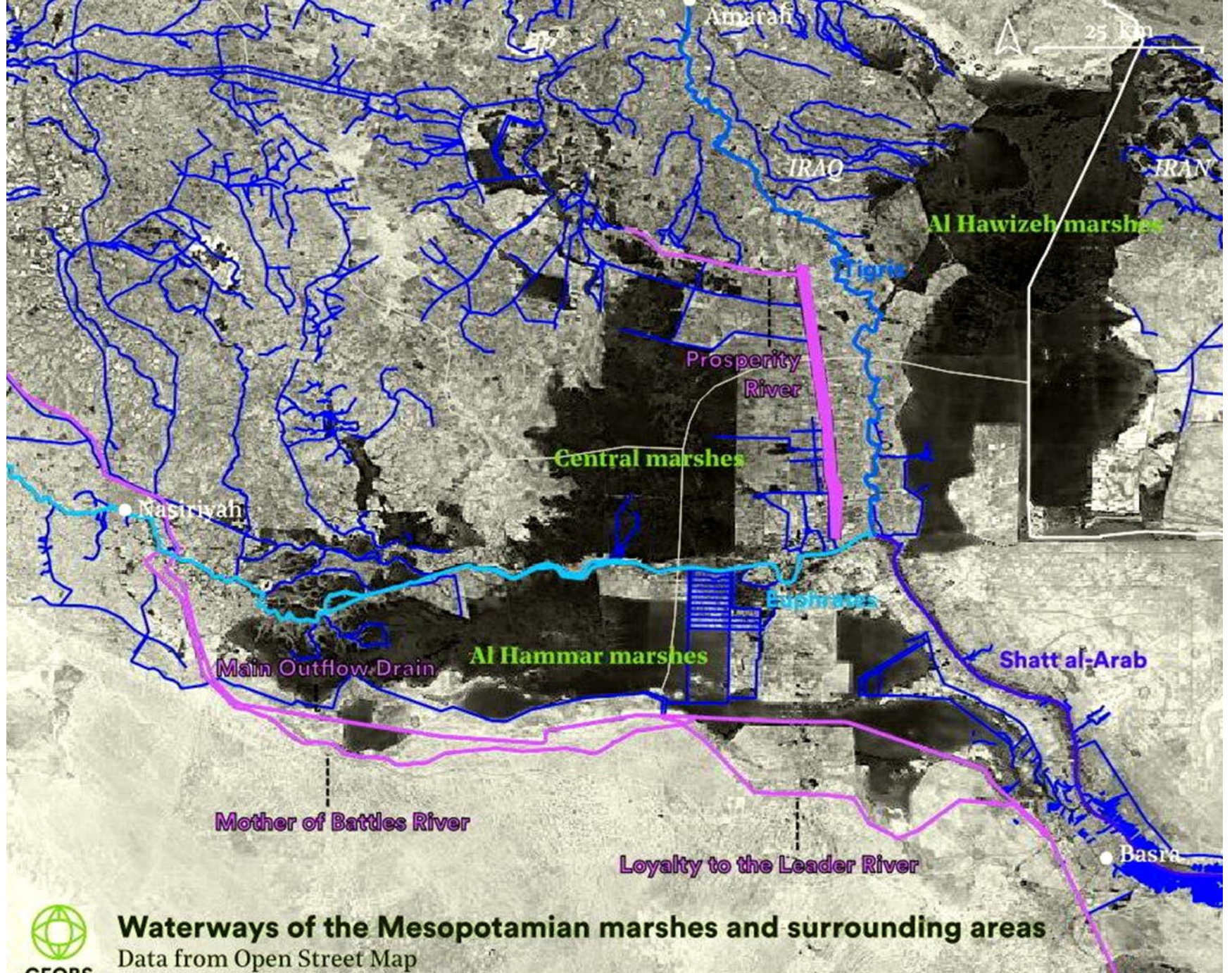
A female figure and a god (identified by his horned headdress) sit on either side of a date-palm; behind them is a snake. In the last century this seal was known as the 'Adam and Eve' seal because it was thought to depict a scene from the Bible; in fact it is one of a well-known class of banquet scenes.

WA 89325









Waterways of the Mesopotamian marshes and surrounding areas

Data from Open Street Map

Base imagery: 2019 Sentinel-2 cloudless mosaic from s2maps.eu

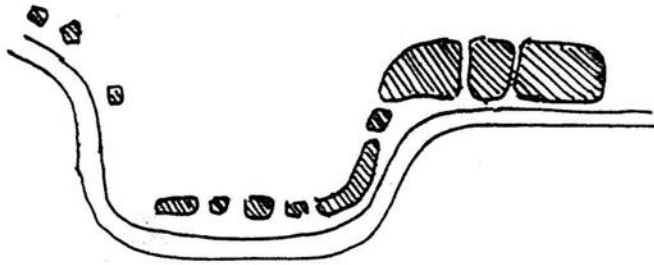




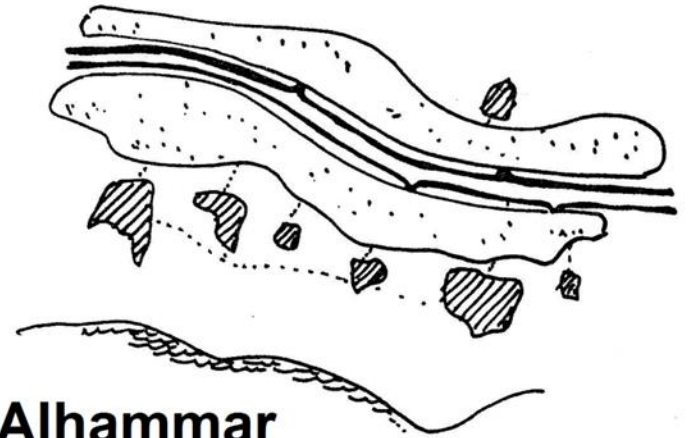




Nagara



Aljbysh



Alhammar



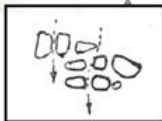
- | | |
|------------------------|-----------------|
| A) REED | 1) SCHOOL |
| B) ISLAND | 2) HOSPITAL |
| C) MULTI-FAMILY ISLAND | 3) BOAT STORAGE |
| | 4) FLOUR MILL |

Alguidid



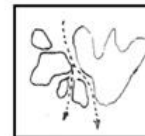
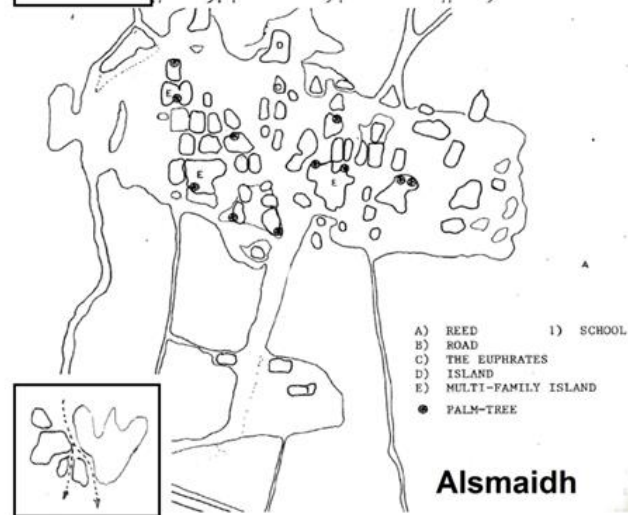
- | |
|-------------|
| 1) SCHOOL |
| 2) HOSPITAL |
| 3) SECURITY |

Al shan



- | |
|-----------|
| A) REED |
| B) ISLAND |
| C) ISLAND |

Abumalaih



- | | |
|------------------------|-----------|
| A) REED | 1) SCHOOL |
| B) ROAD | |
| C) THE EUHRATES | |
| D) ISLAND | |
| E) MULTI-FAMILY ISLAND | |
| ● PALM-TREE | |

Alsmaidh

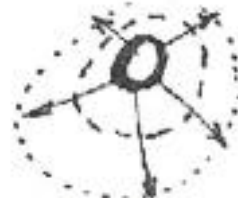




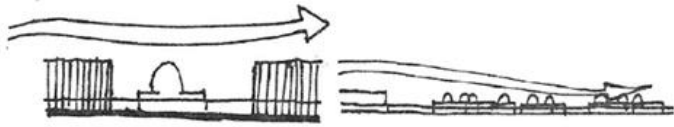




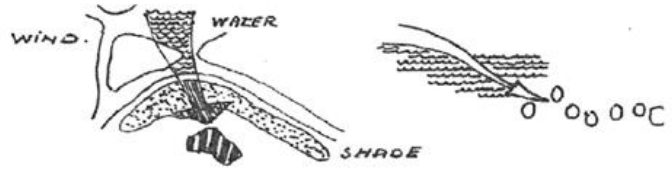
Dry land



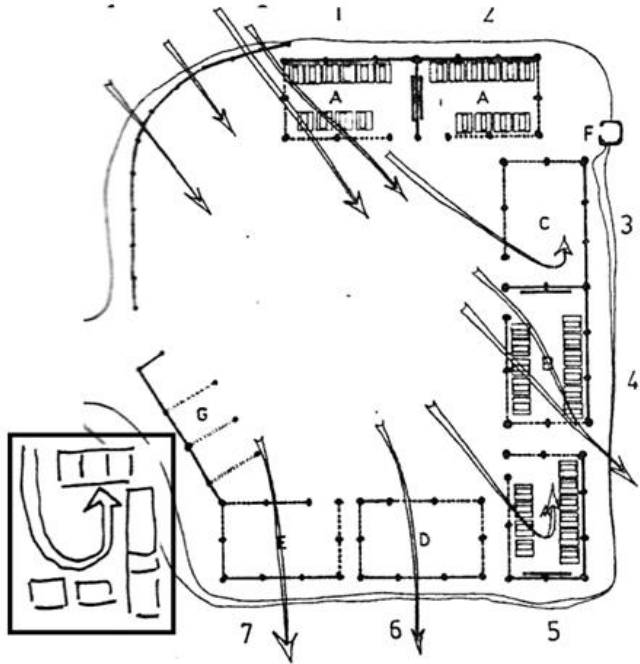
Marshes



winter



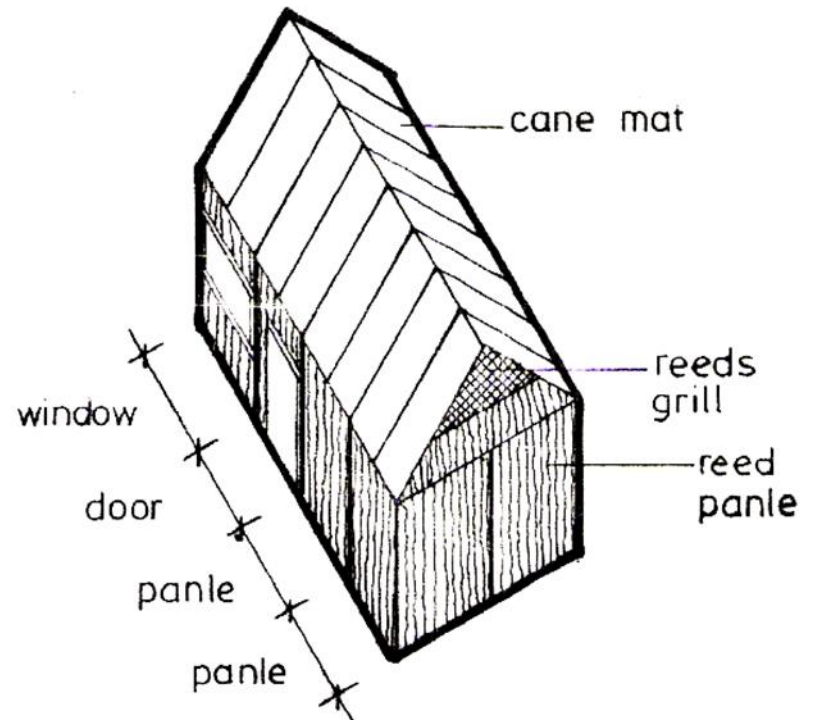
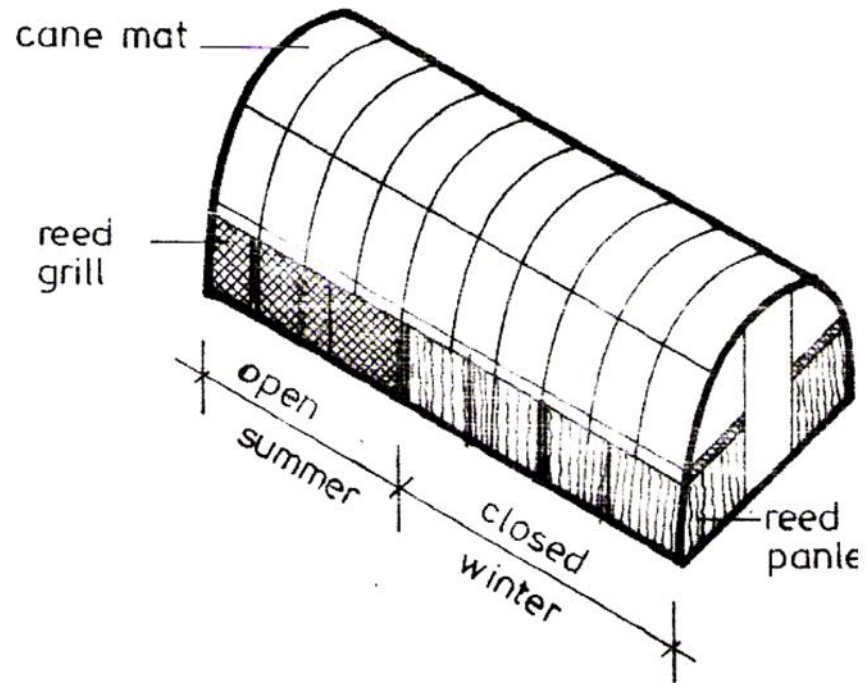
summer



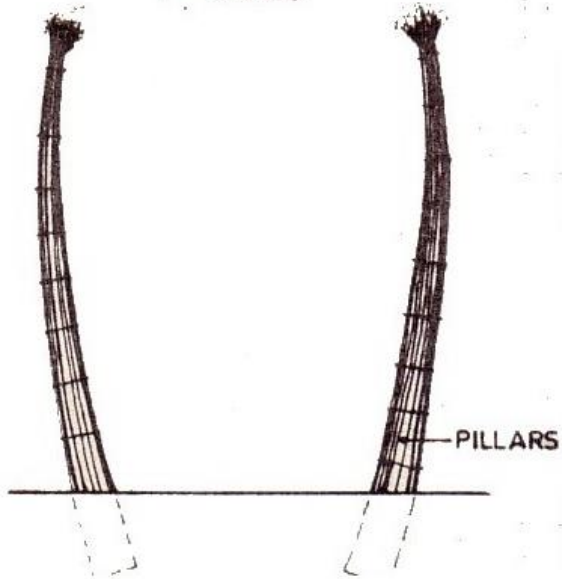


8000 years same material
and technique prevail in
the Iraqi marshes

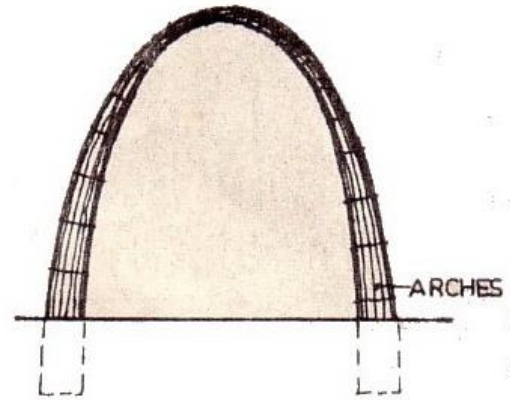




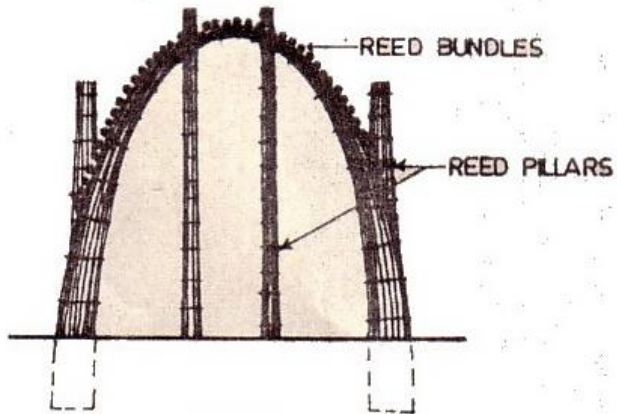
1st STAGE



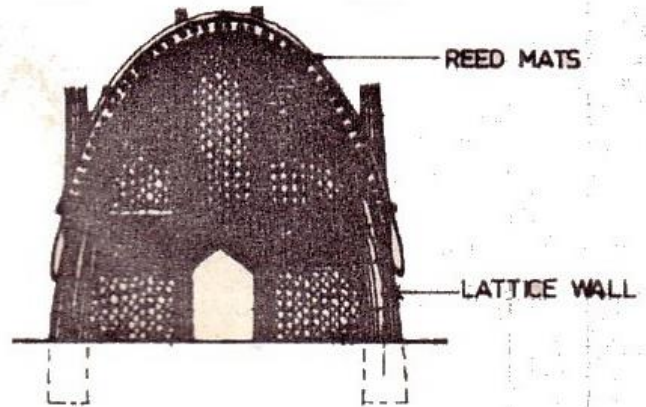
2nd STAGE

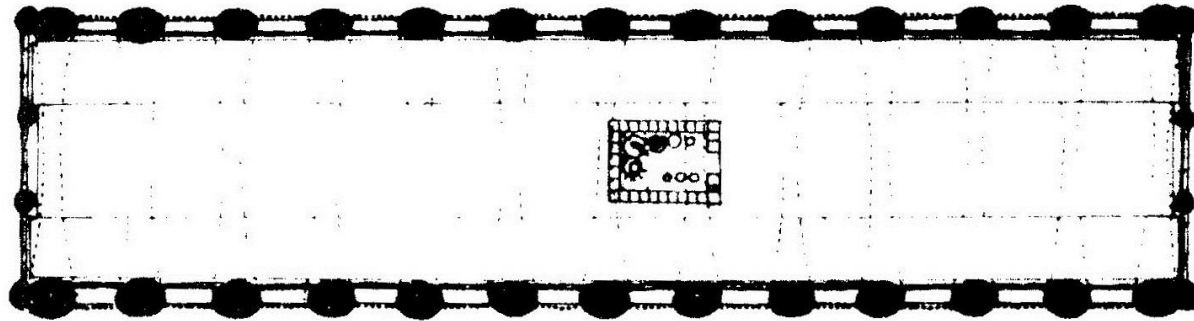


3rd STAGE



4th STAGE

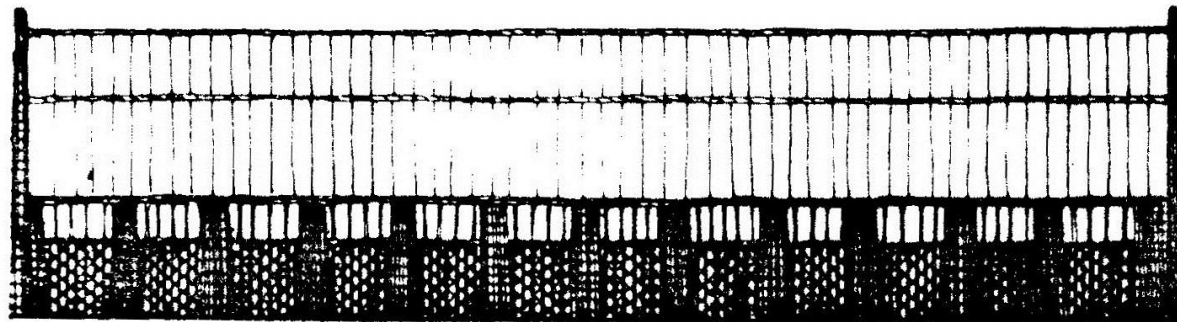
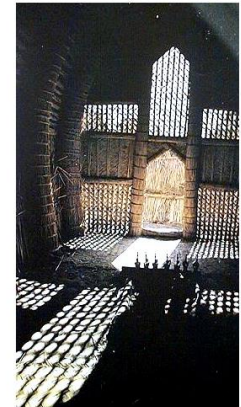




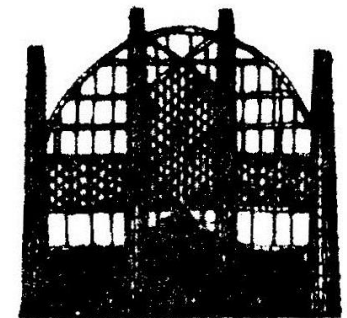
100 85 100 85

PLAN

70
150
38
124
38
138
70



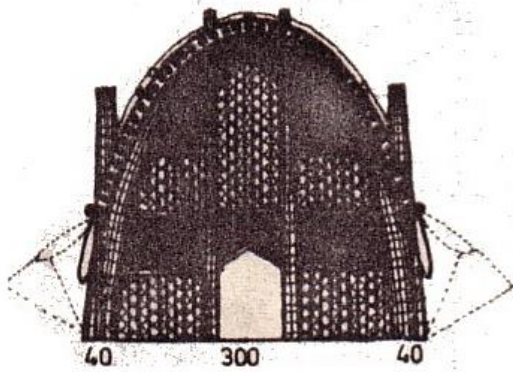
LONGITUDINAL ELEVATION



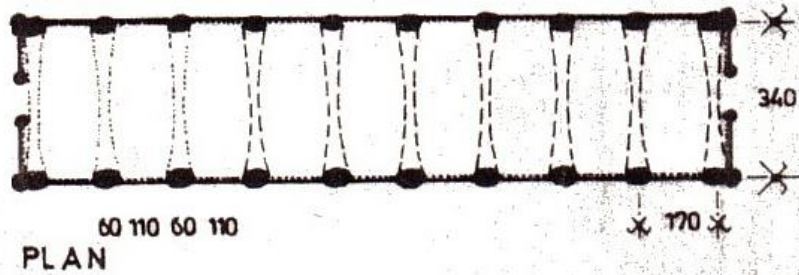
FRONTAL ELEVATION



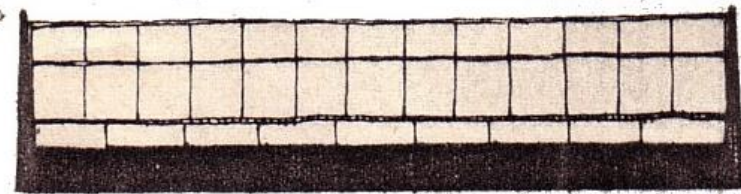




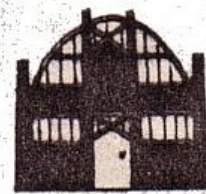
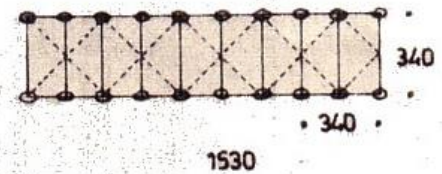
TRANSVERSAL SECTION
ECH: 1/100



PLAN



LONGITUDINAL ELEVATION

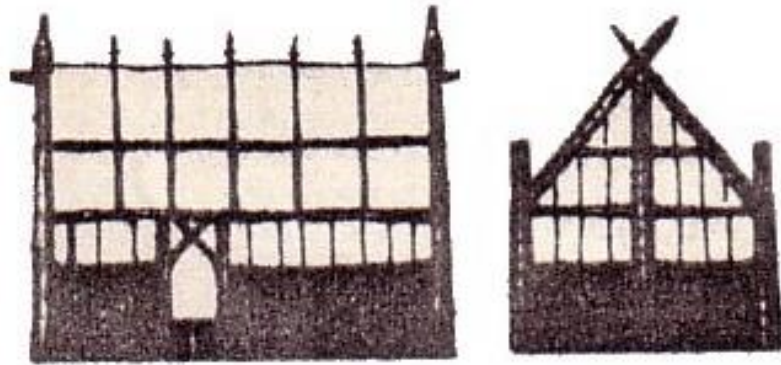


FRONTAL ELEVATIONS
North

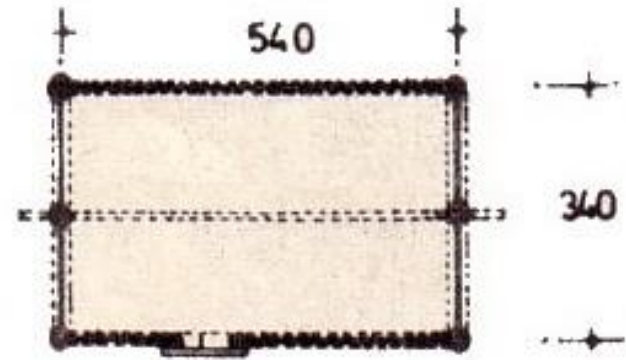


South



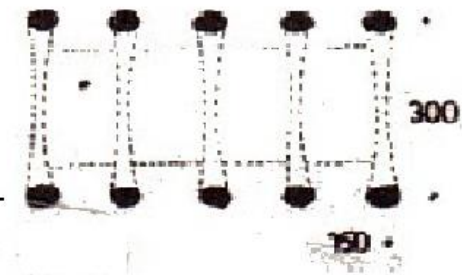
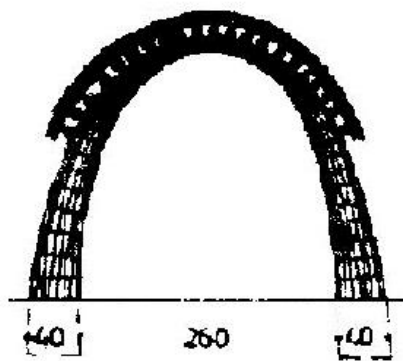
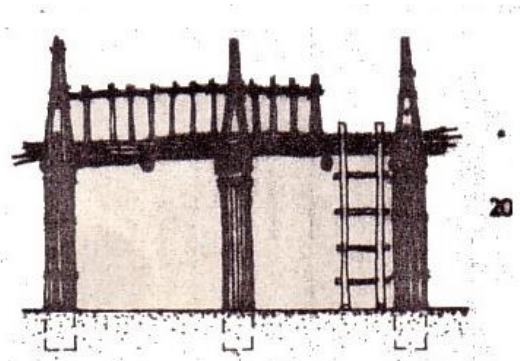
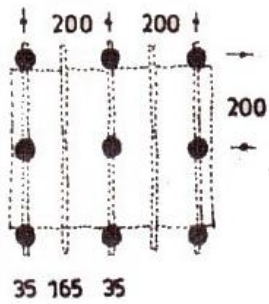


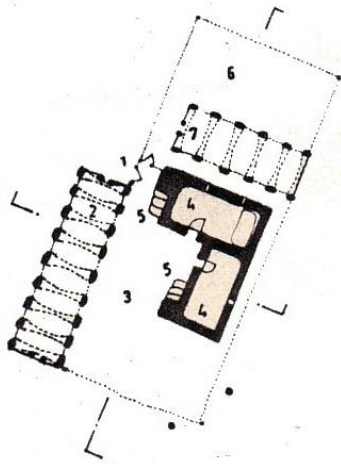
ELEVATIONS



PLAN

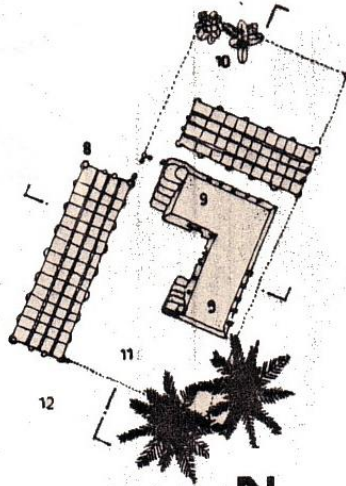






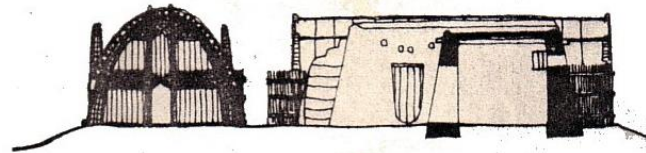
GROUND FLOOR PLAN

- 1 Entrance
- 2 Guest room
- 3 Courtyard
- 4 Winter bedrooms
- 5 Terrace scales
- 6 Enclosure
- 7 Kitchen

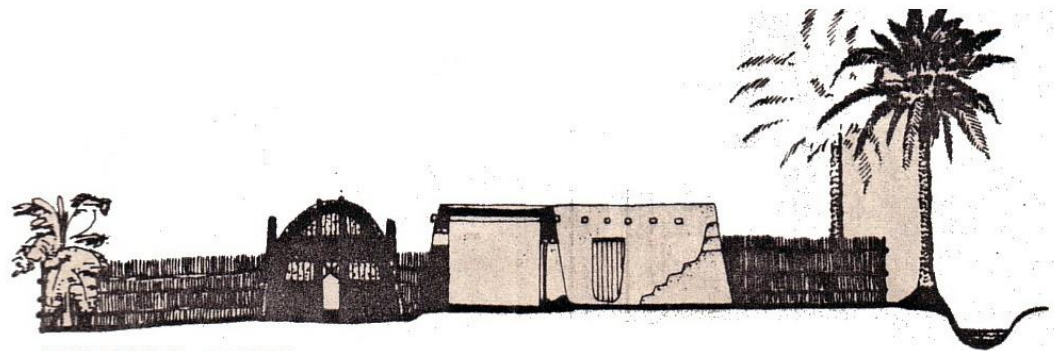
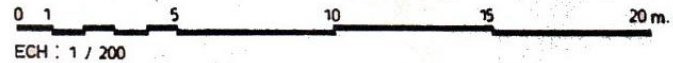


TERRACE PLAN

- 8 Family Muhdif
- 9 Summer sleeping places
- 10 Women's quarter
- 11 Men's quarter
- 12 Date palm grove

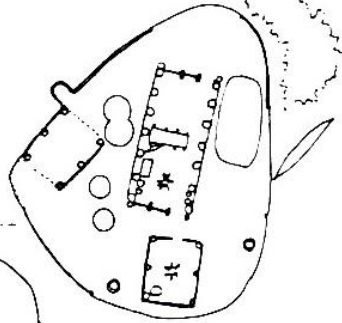
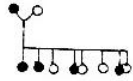


CROSS SECTION

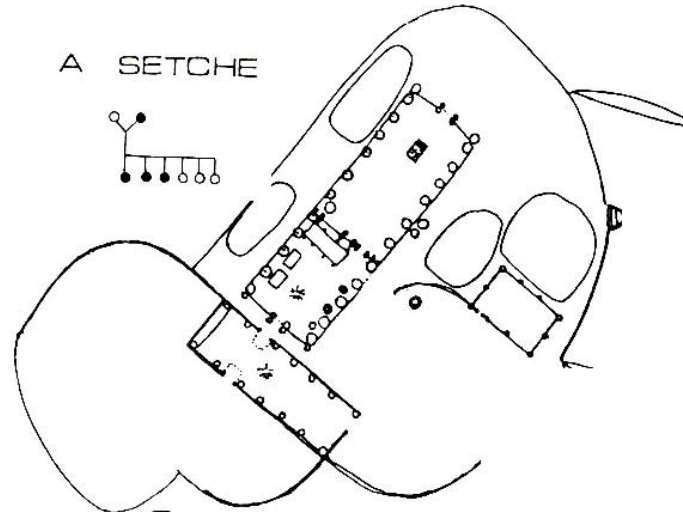
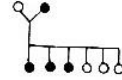


LONGITUDINAL SECTION

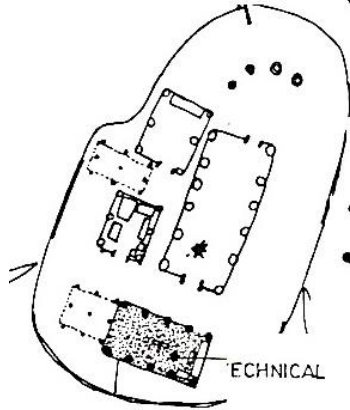
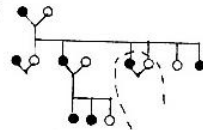
B AL SAHEN



A SETCHE

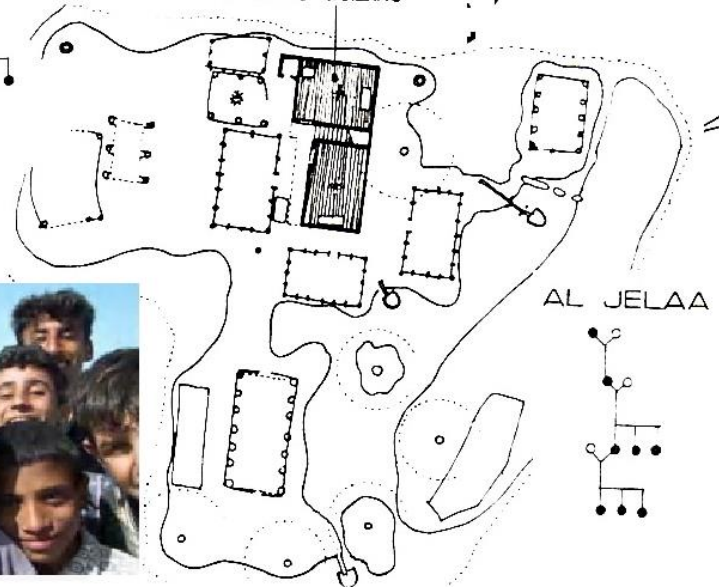


HUSSEIN VILLAGE

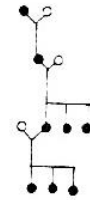


TECHNICAL REED MODULE

CEMENT BLOCKS BUILDING

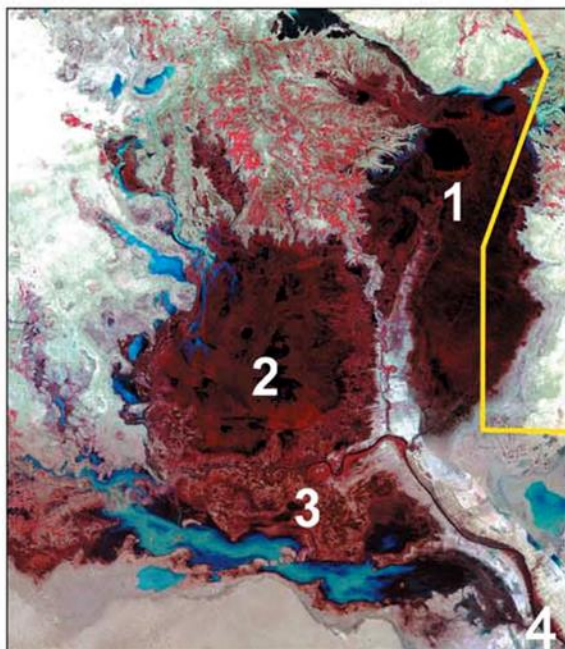


AL JELAA





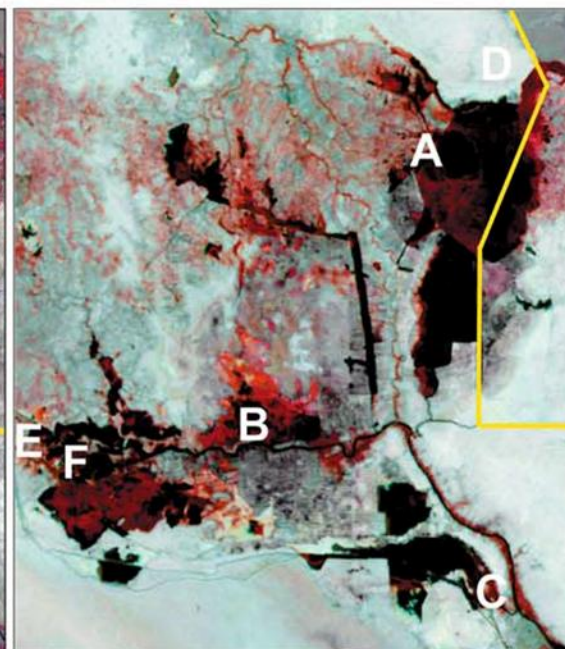
a. 1973



b. 2000



c. 2005



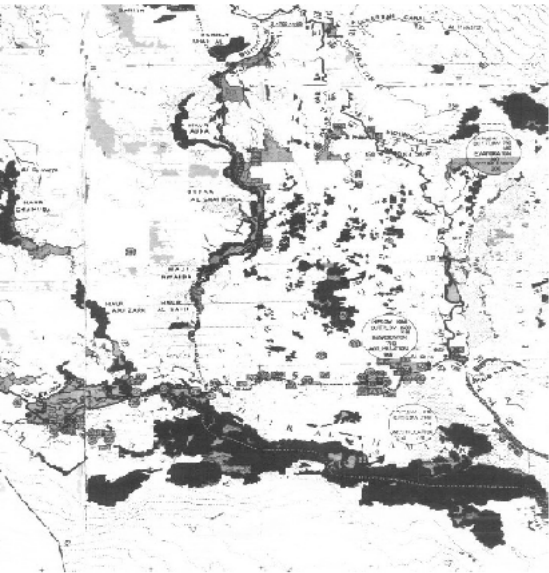
Permanent lake/
reflooded marsh

Agriculture

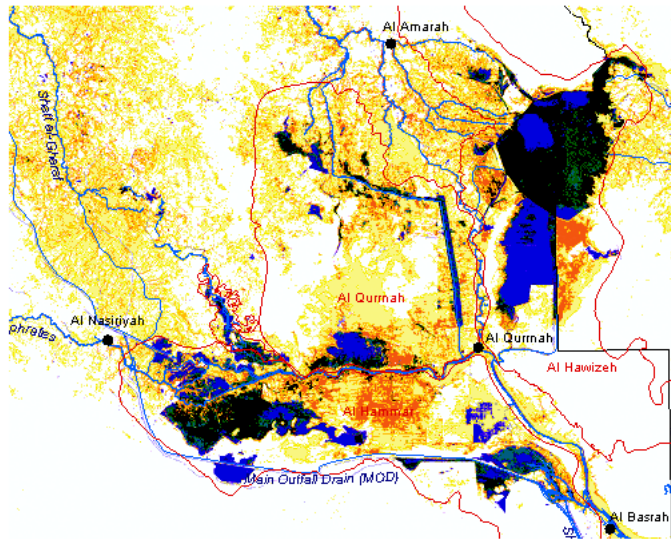
Seasonal lake

Marsh vegetation

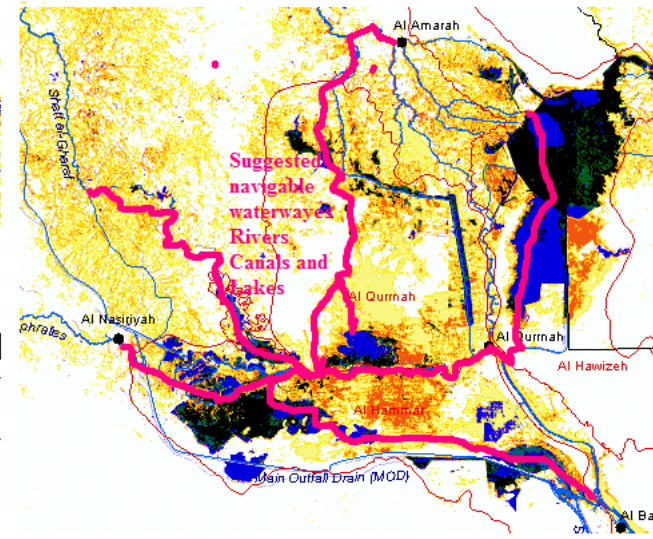




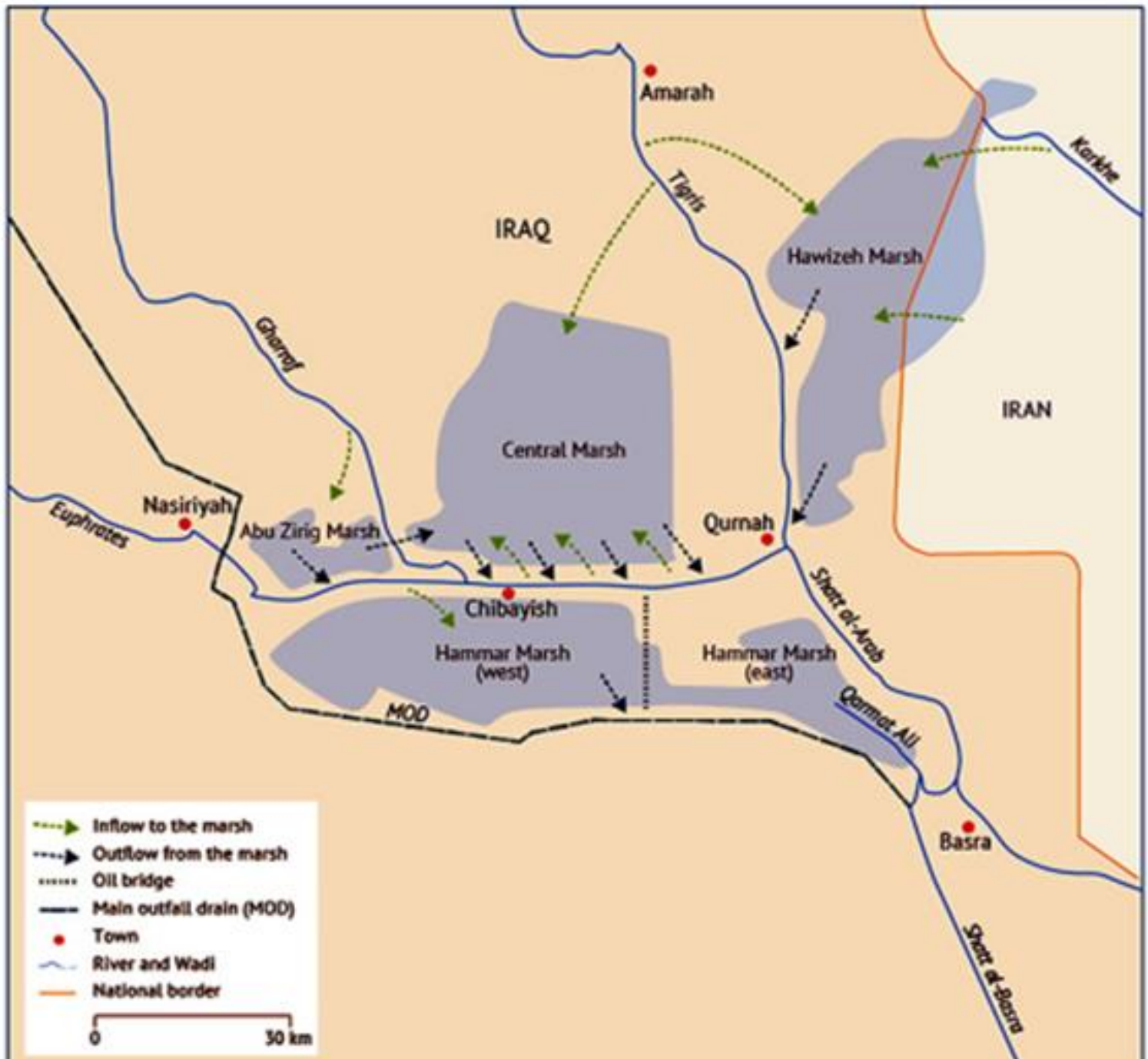
Before 1974

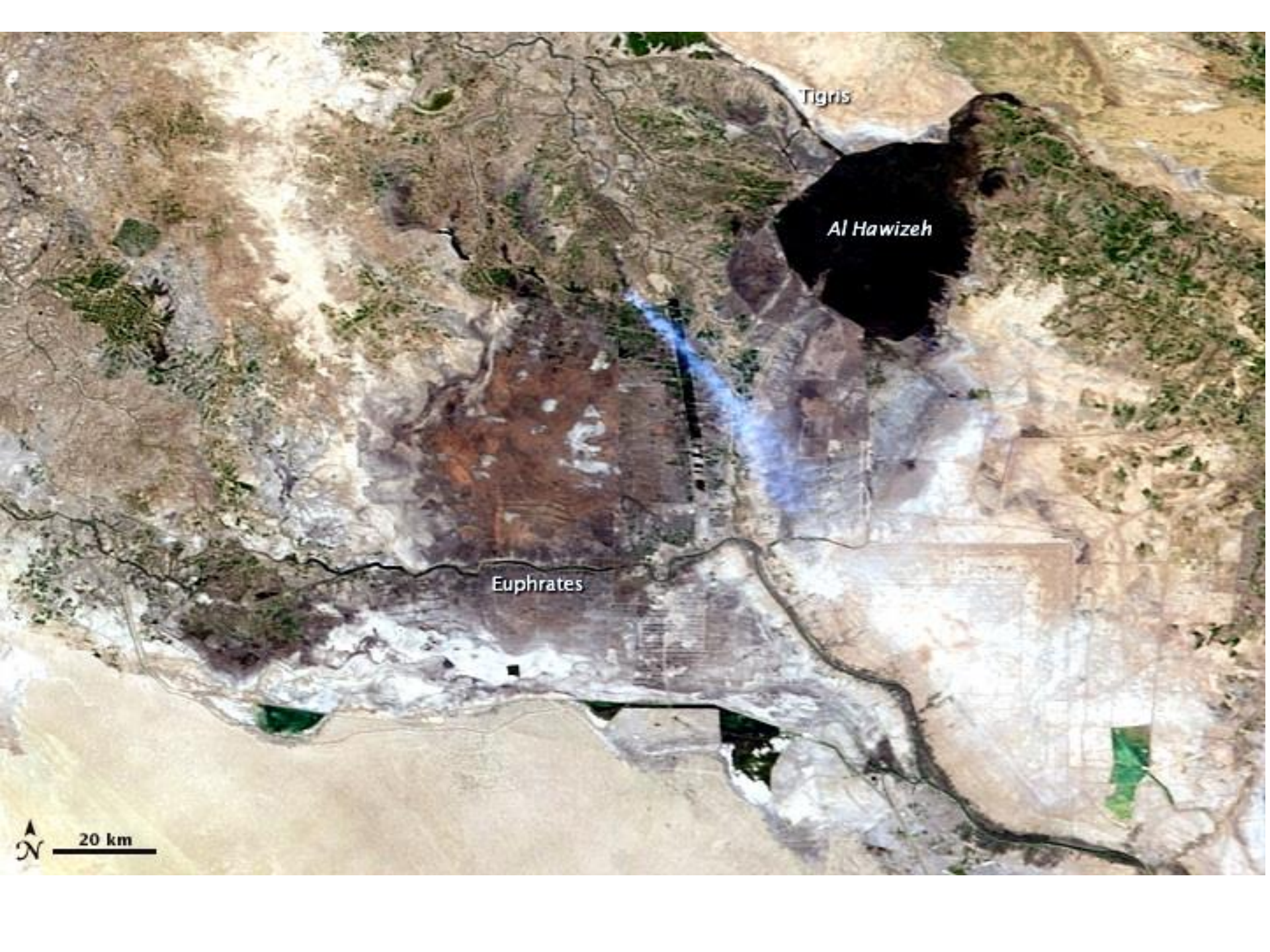


Existing Now



Suggested





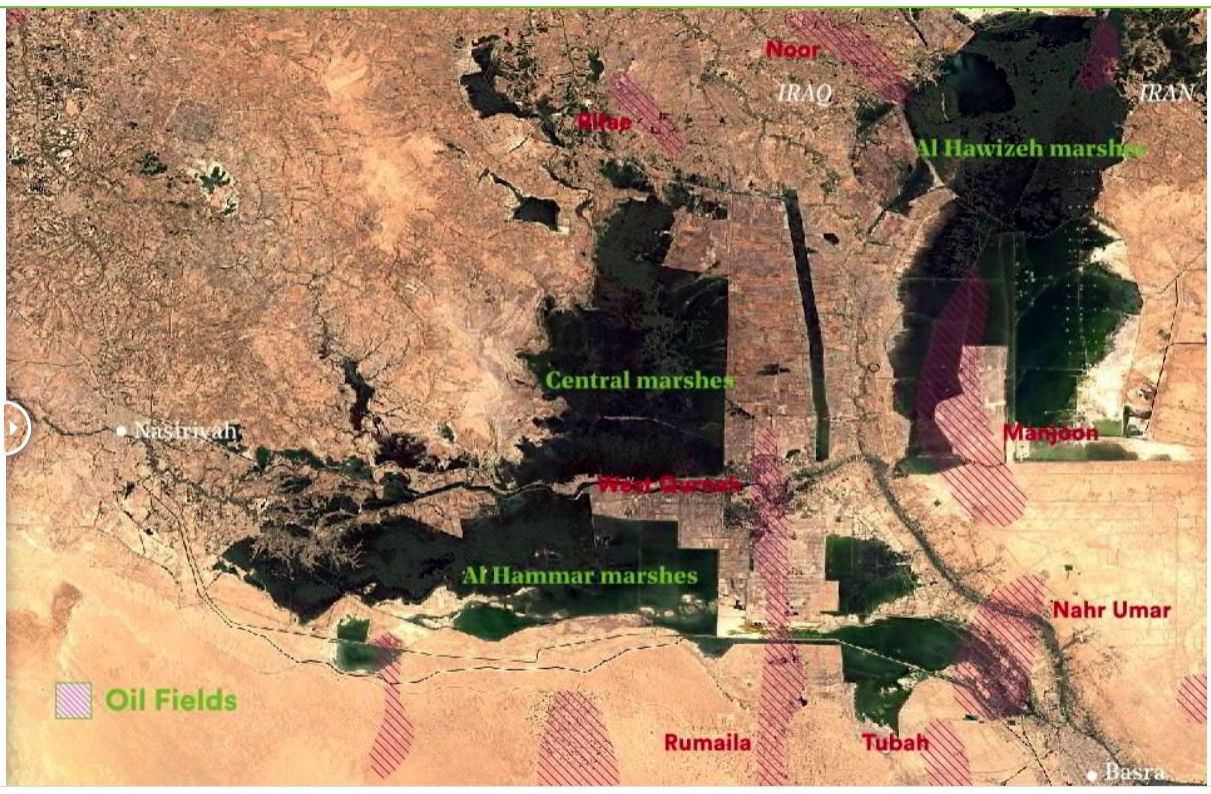
Tigris

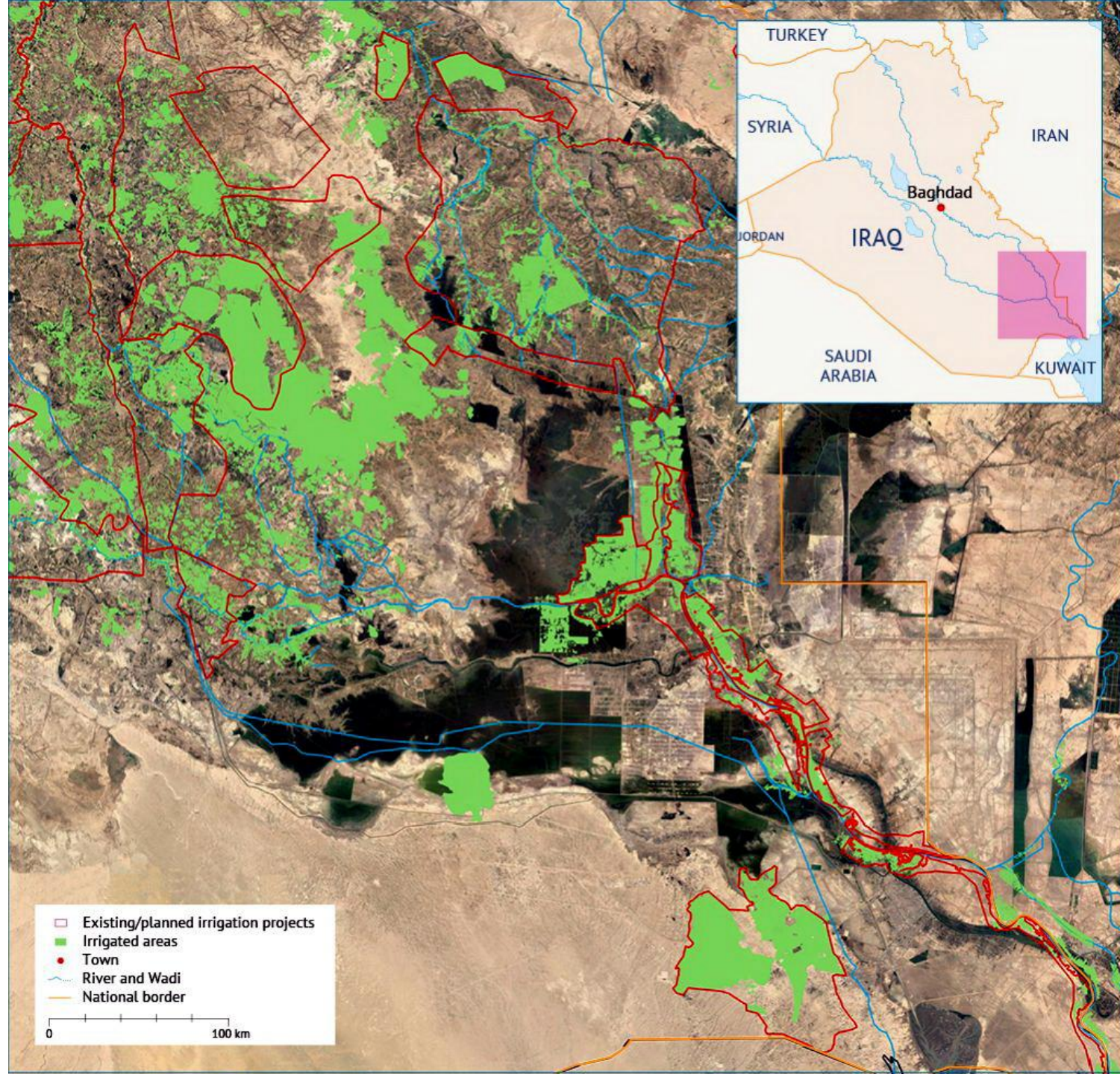
Al Hawizeh

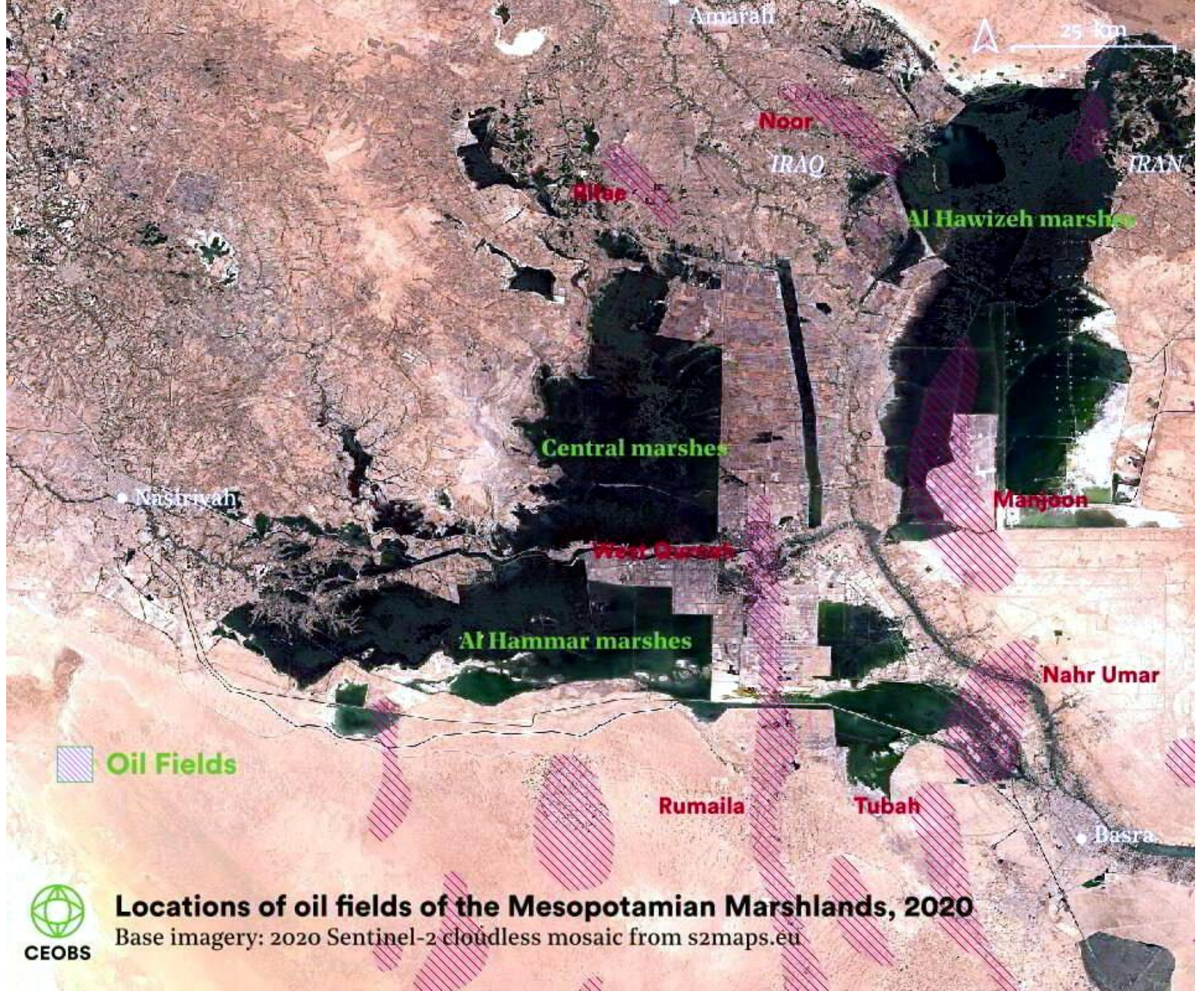
Euphrates

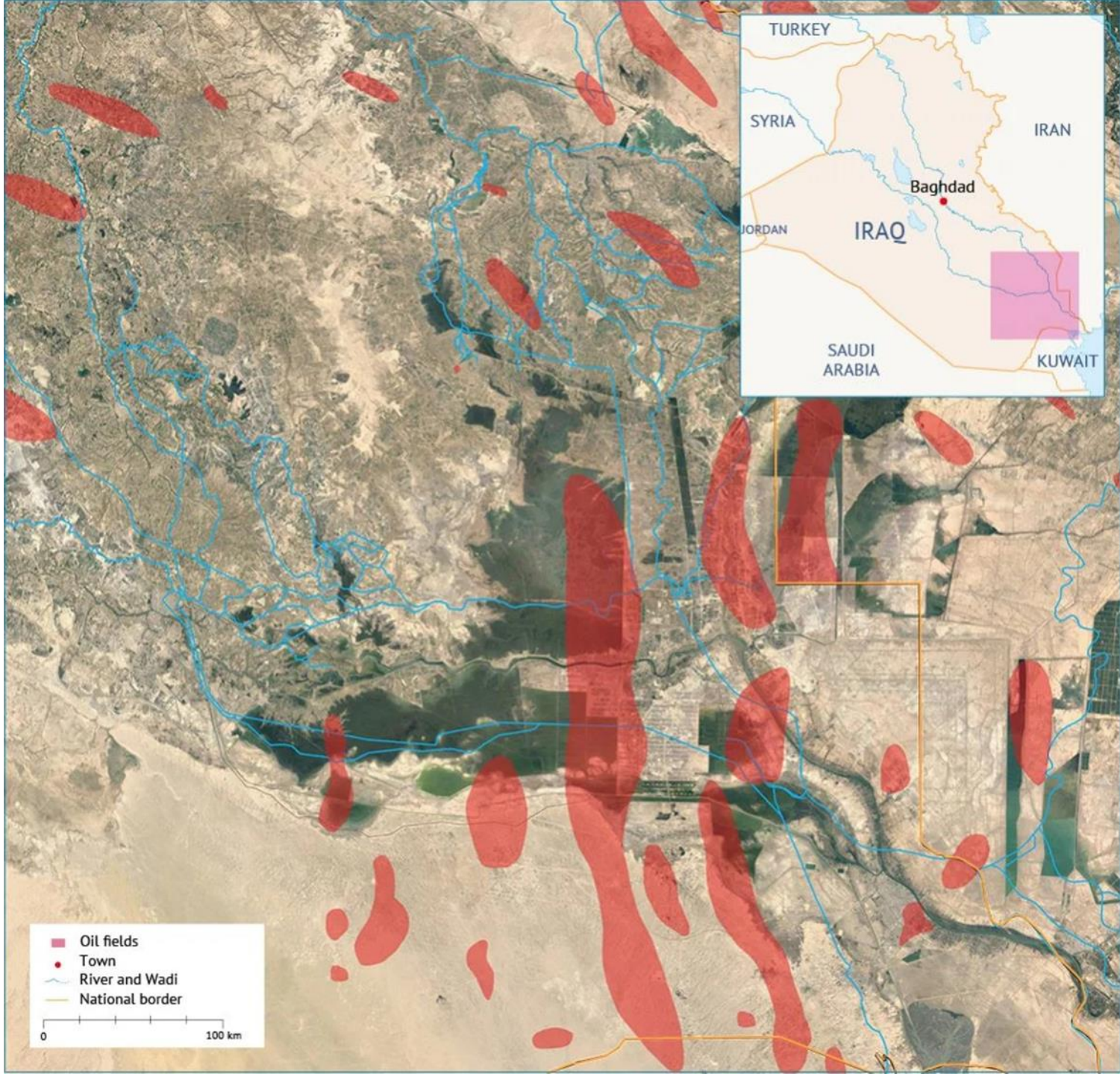
20 km









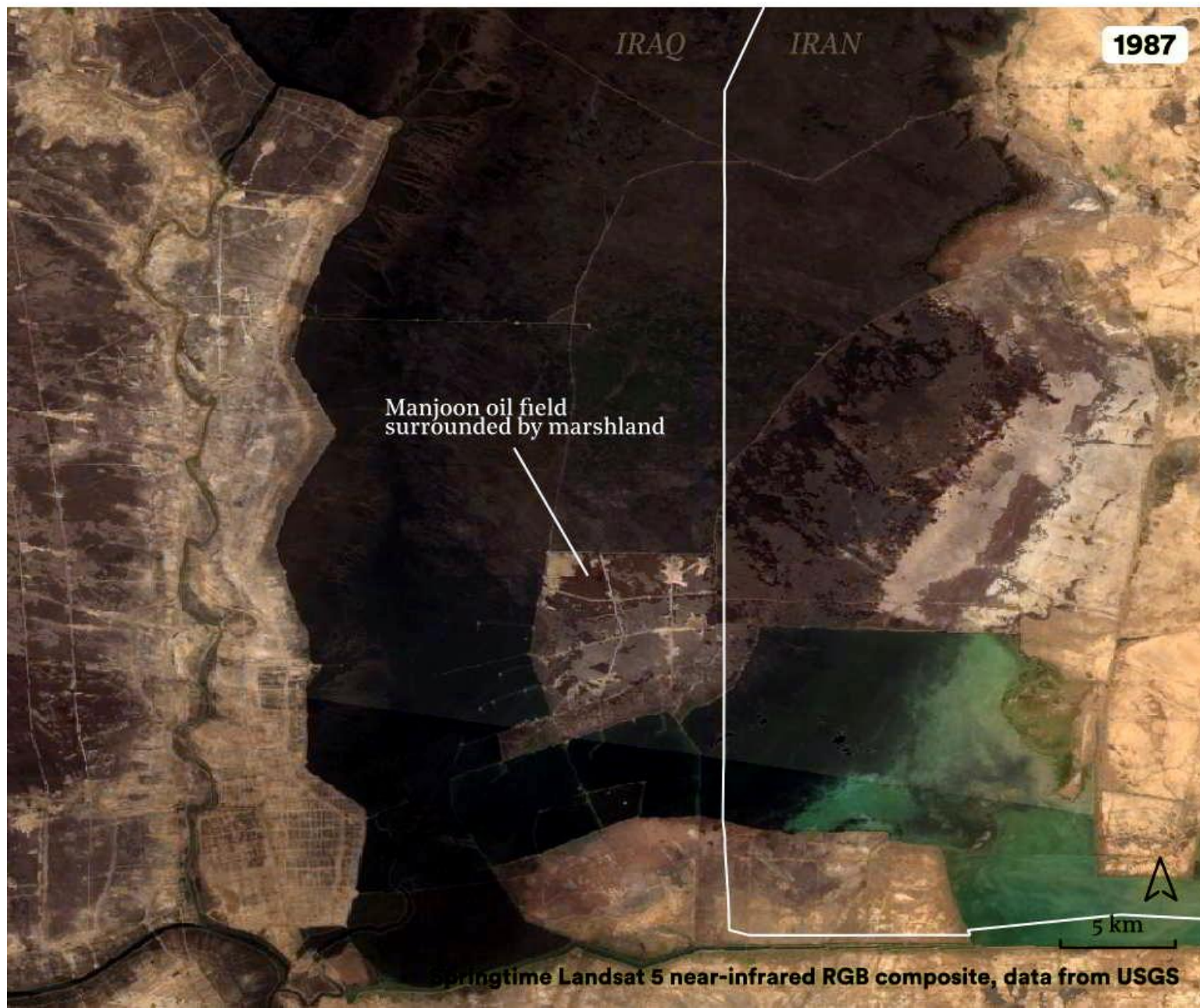


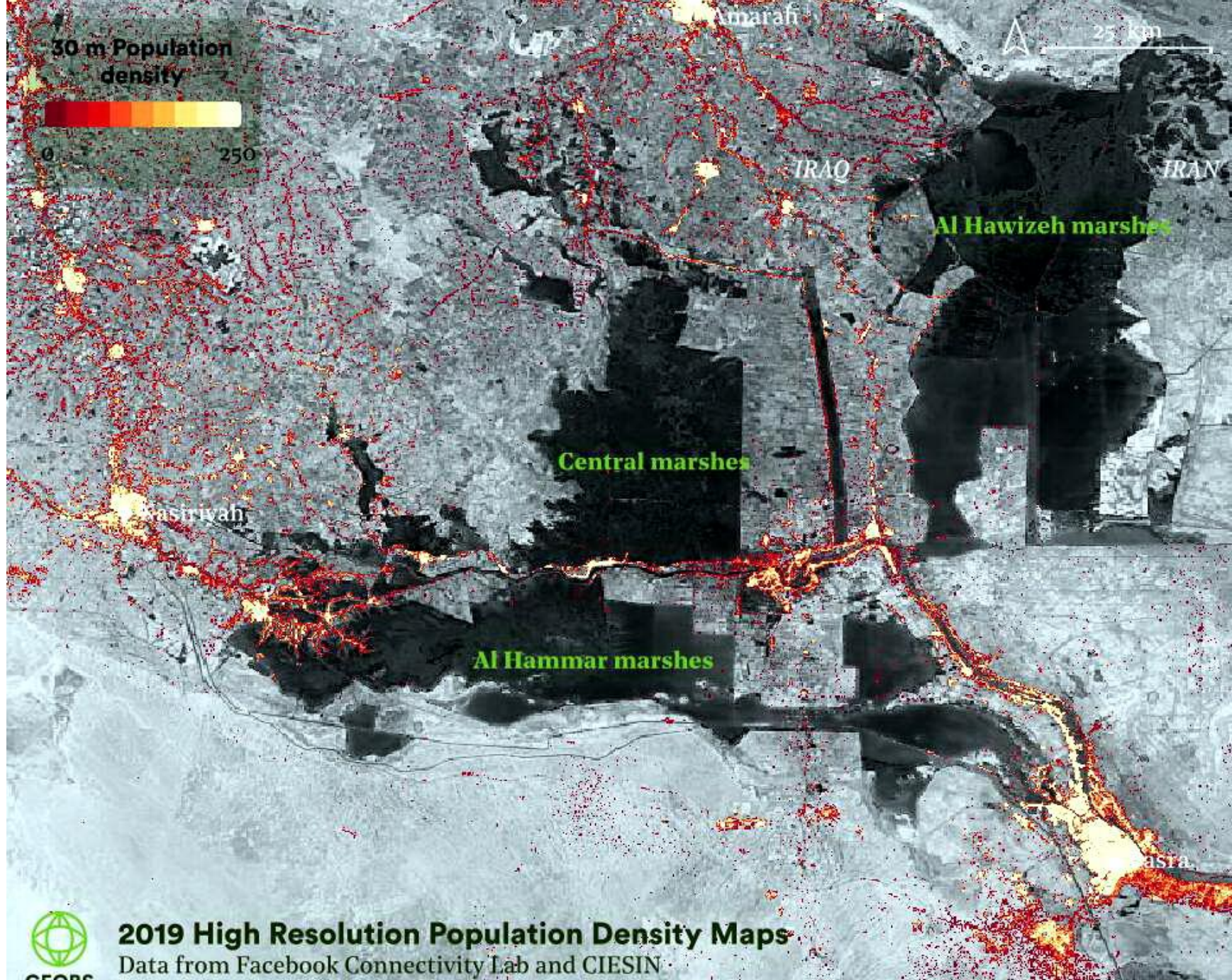


CEOBS

Dynamics of the marshes near Manjoon oil field during the Iran-Iraq war

Drying of marshes in 1988 and reflooding of Iranian side in 1989





2019 High Resolution Population Density Maps

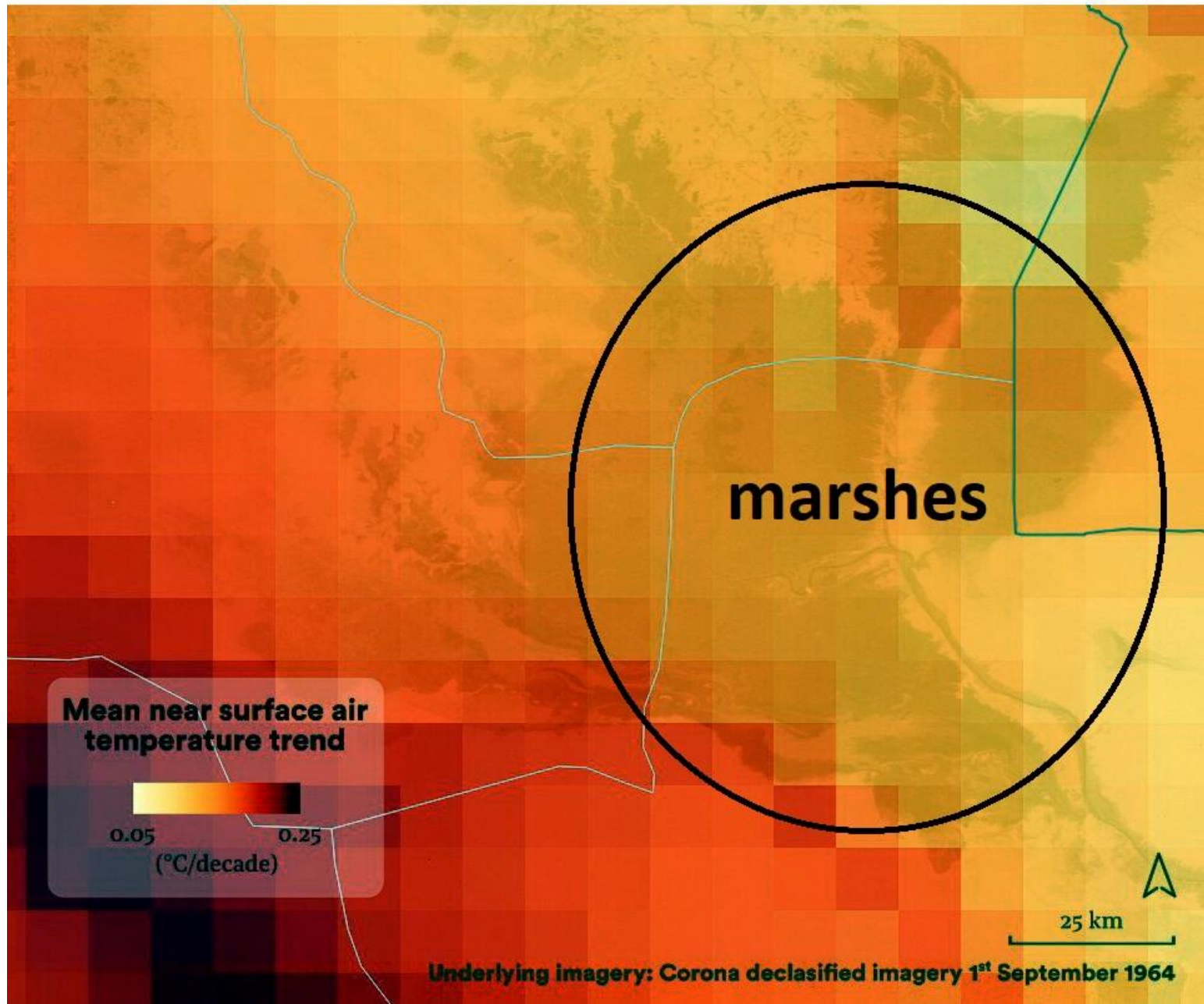
Data from Facebook Connectivity Lab and CIESIN

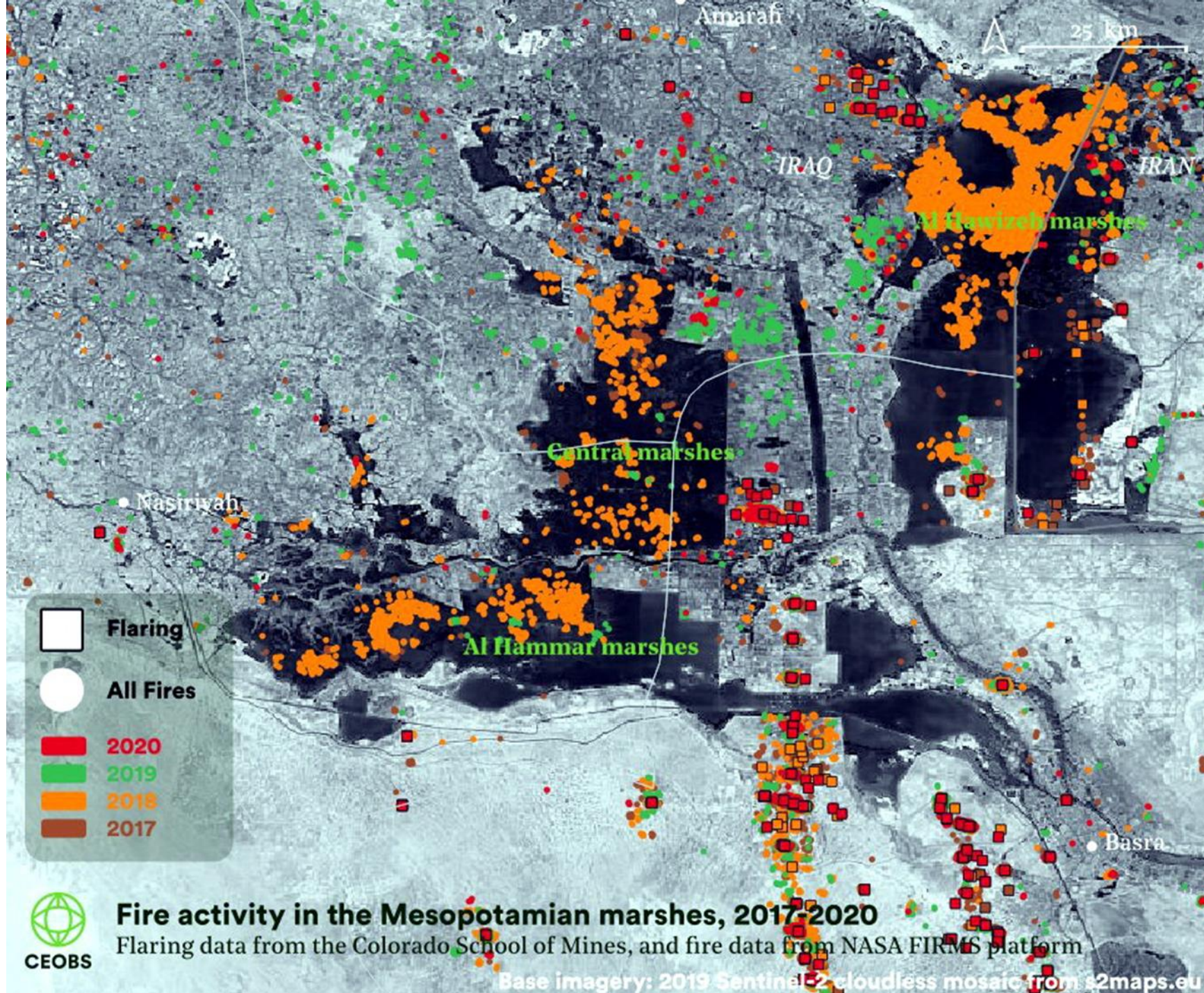
Base imagery: 2019 Sentinel-2 cloudless mosaic from s2maps.eu

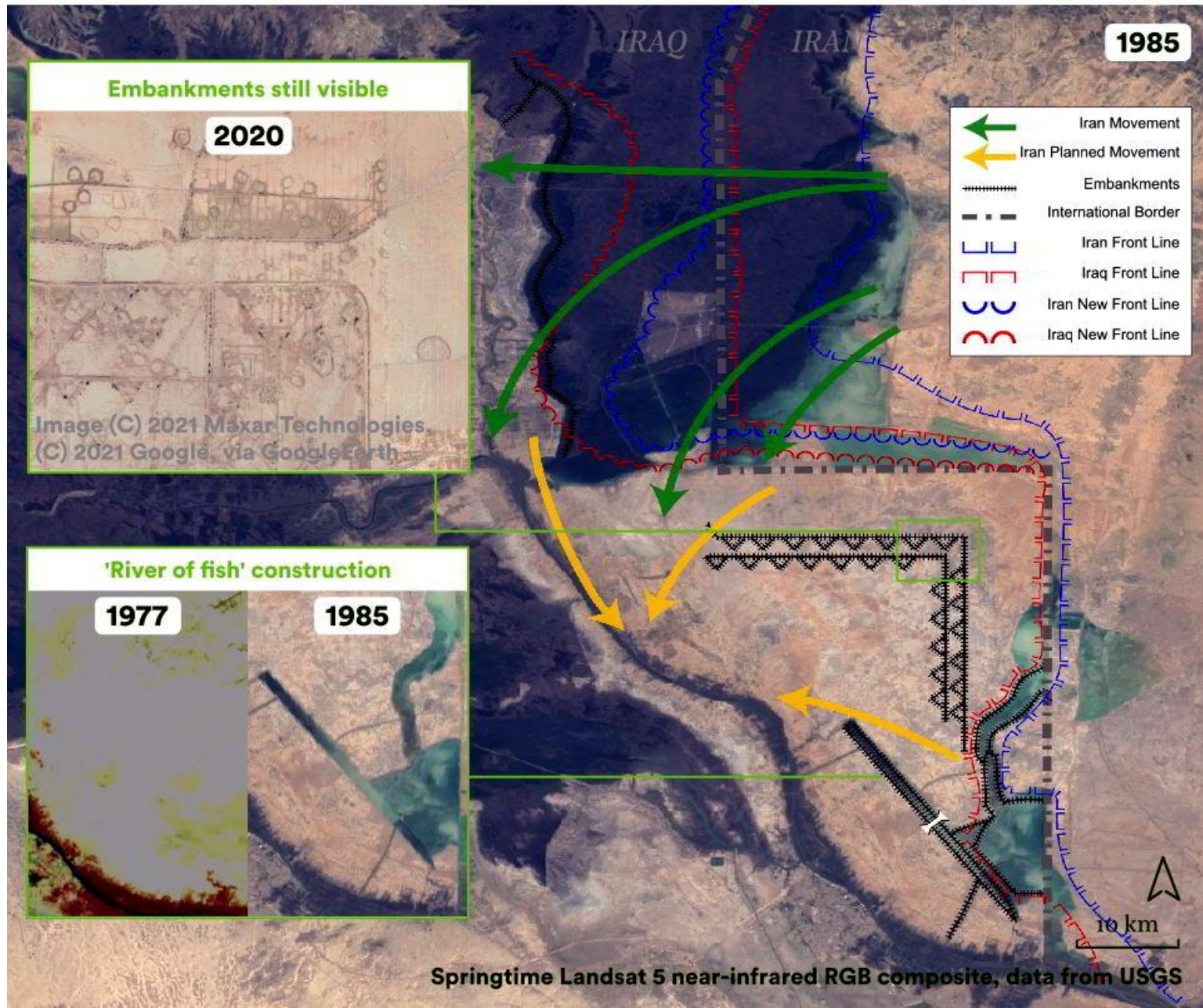


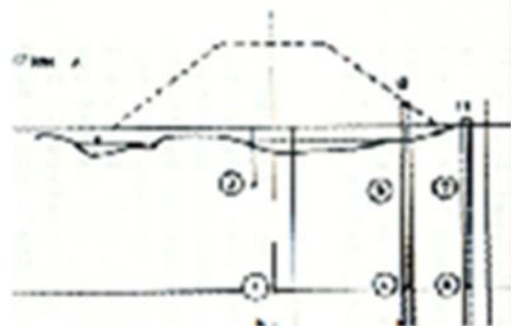
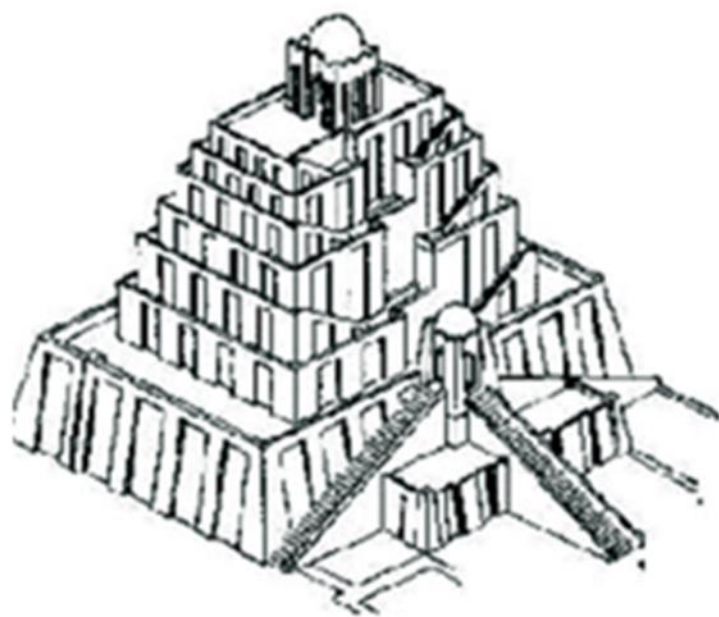
Climate trends for the Mesopotamian marshes under SSP5-8.5 scenario

Projections from RICCAR CMIP6 climate model ensemble (1960-2070)

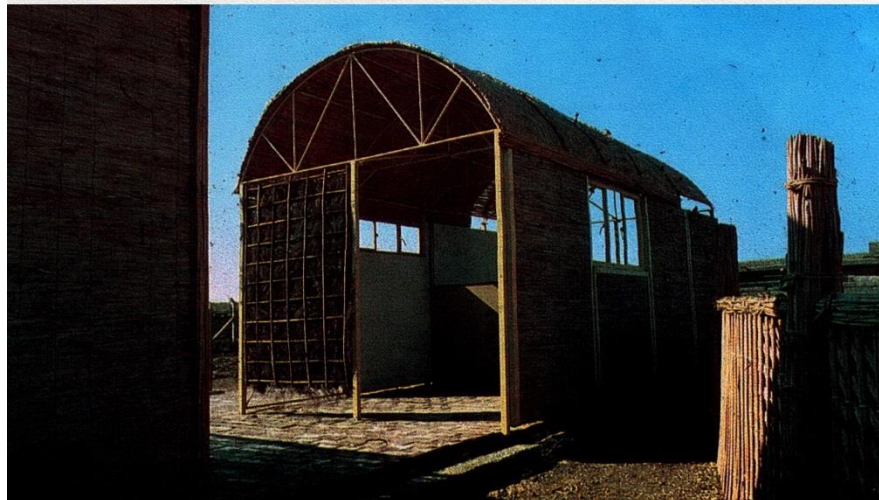
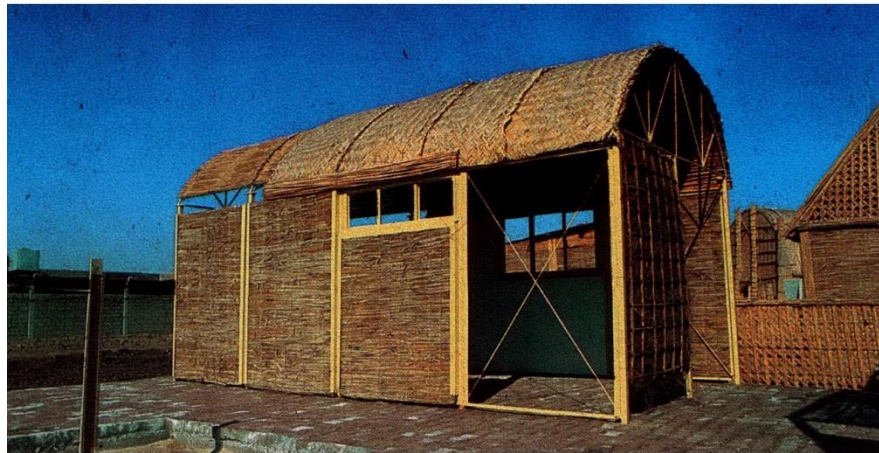




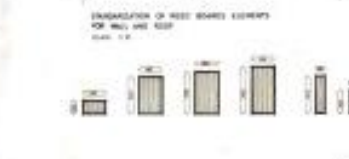
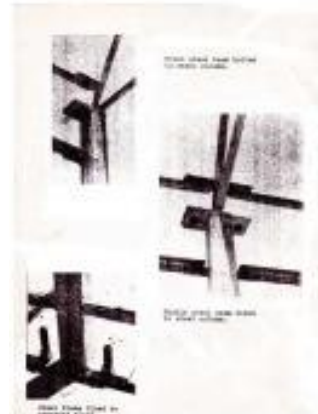
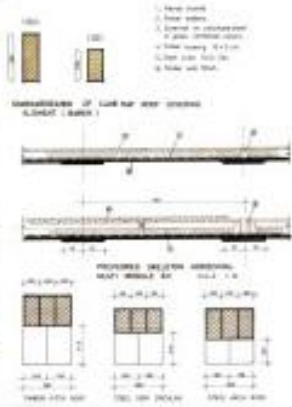
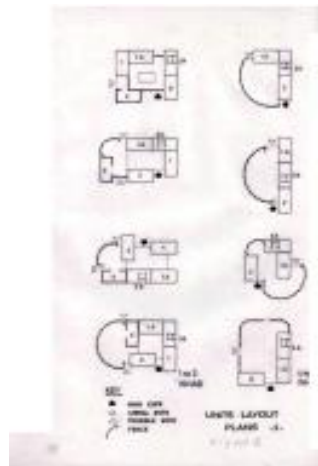






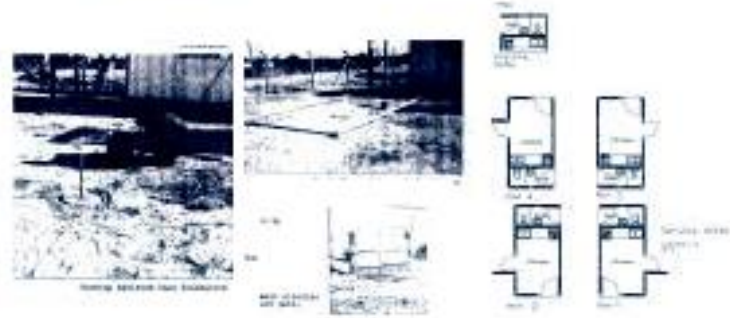
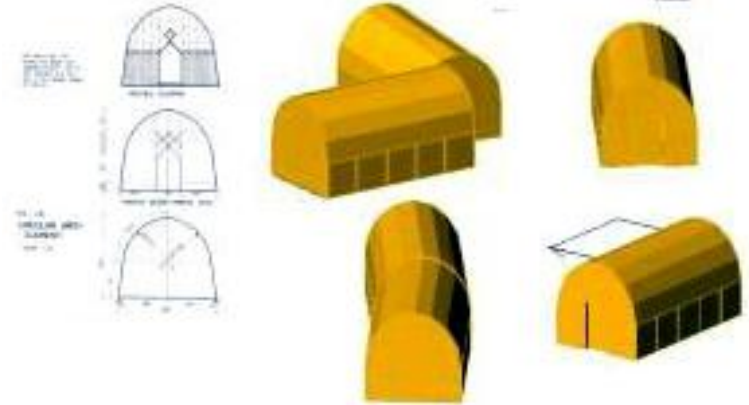


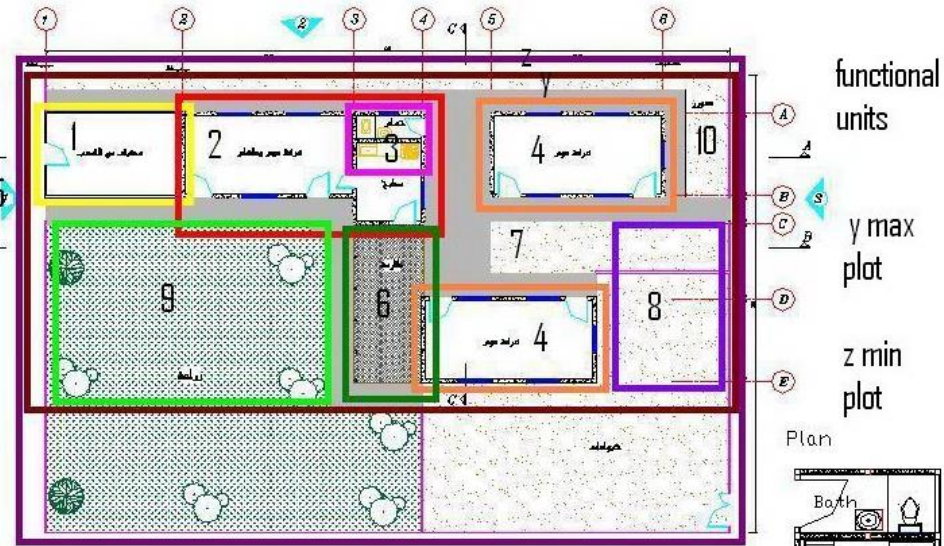
Sedia Modulo Closed Building System



		LIVING UNITS			
NO. OF INHABITANTS	1	1A	1A	1A	1A
	2	2	1A	1A	1A
	3	2	1	1A	1A
	4	2	1	1A	1A

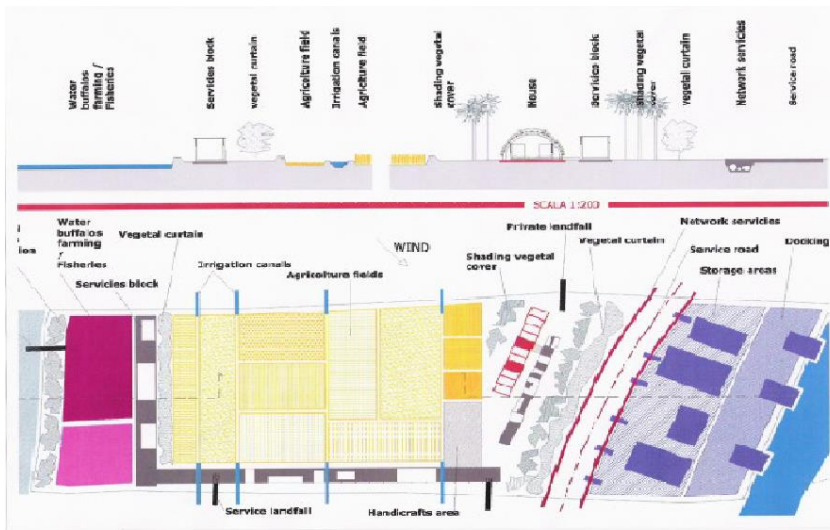
Medina Modular Open Building System



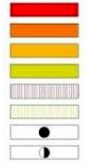


- 1. needs guestroom
- 2. living & sleeping core unit
- 3. service unit
- 4. exte. family room
- 5. main ent.
- 6. covered working area
- 7. open area
- 8. animal area
- 9. cultivation of plants area
- 10. open fire area

Pre-Fab
Unite



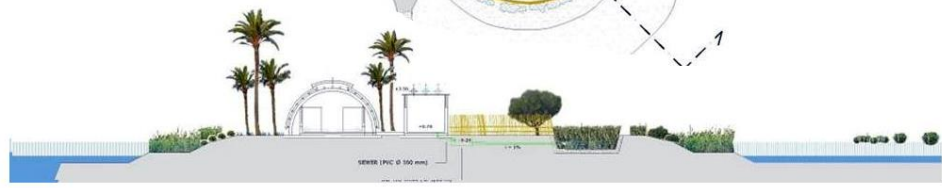
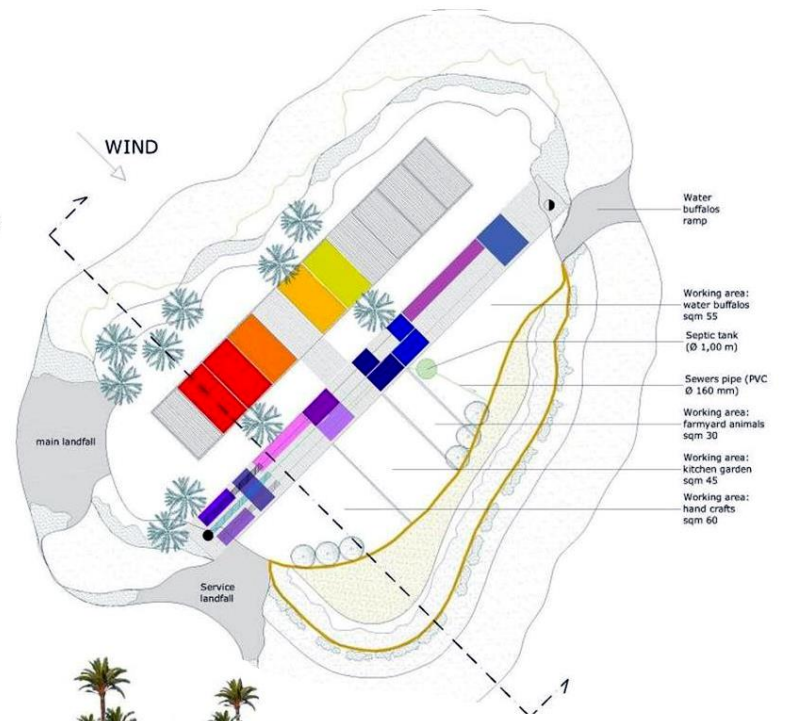
HOUSE

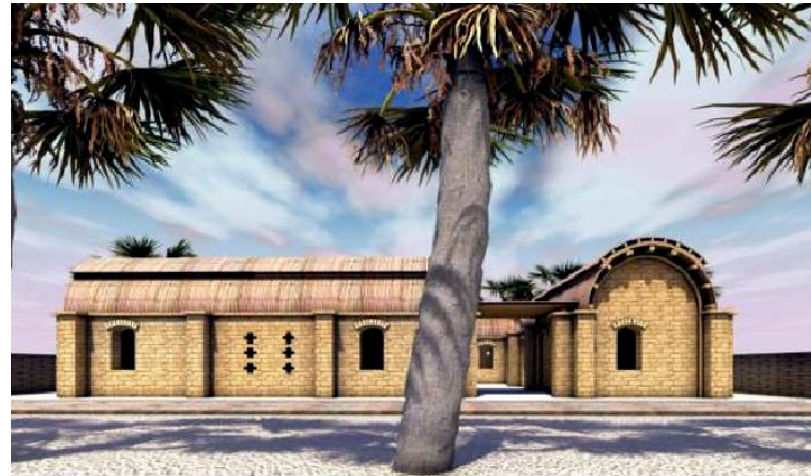
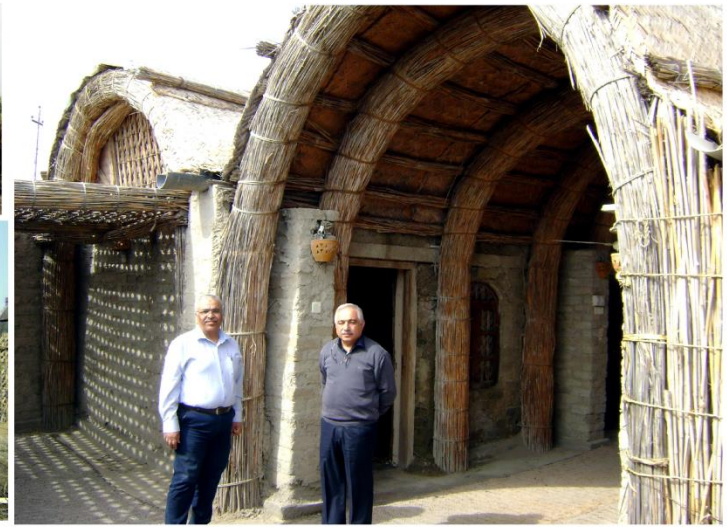


SERVICE BLOCK



LANDSCAPE

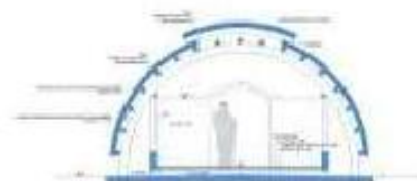






PLAN
1:500 & 1:100

SECTION
1:100



CROSS SECTION
1:100



LONGITUDINAL ELEVATION
1:500 & 1:100

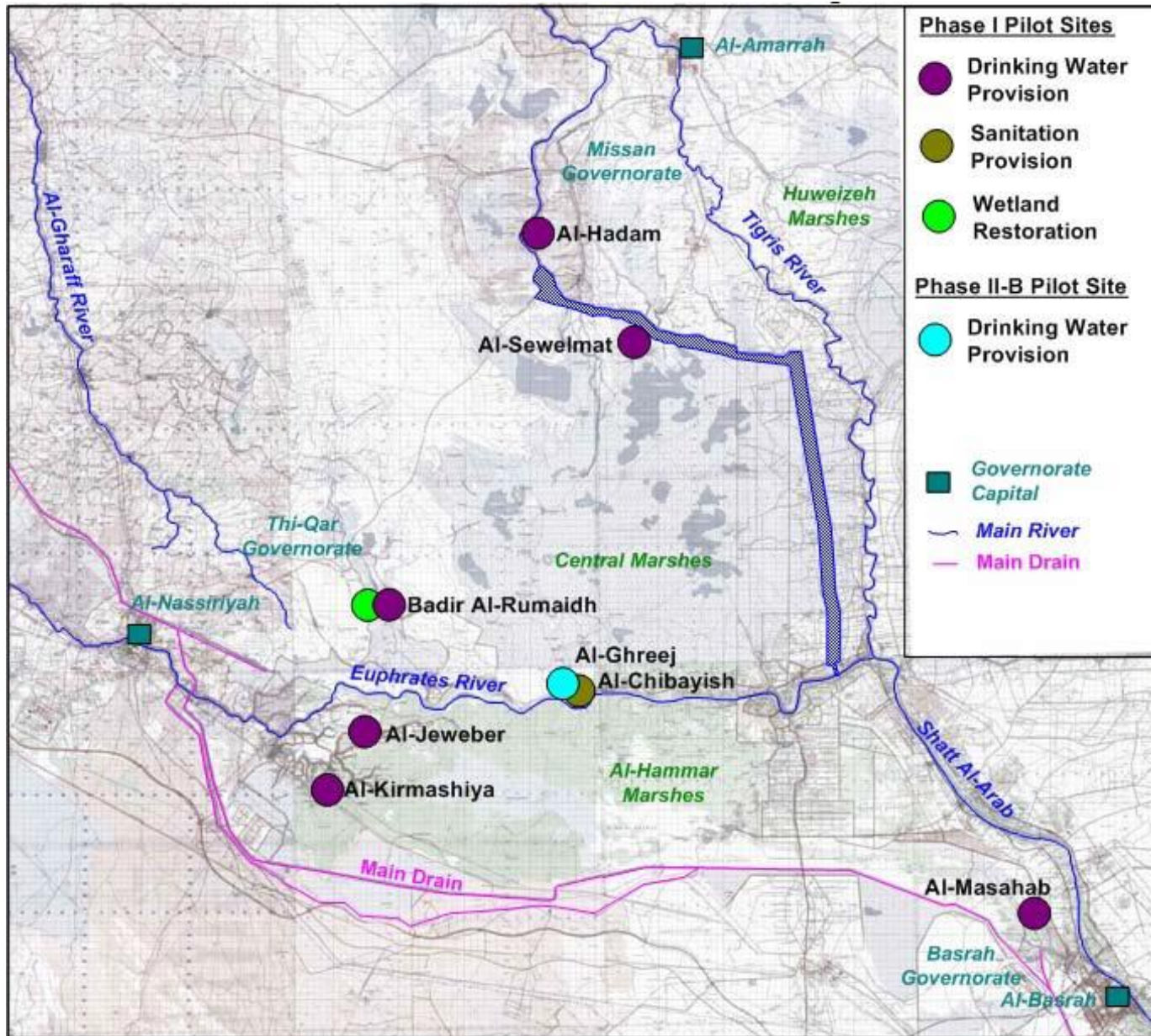


CROSS ELEVATION
1:500 & 1:100



ISOMETRIC VIEW









Marshes in Iraq is one of the most important ecological international sites that is threatened by the drying process, anew system of hydrology is needed which takes into account the danger of drying, that requires update the hydrological system, studies should shifts their priorities from system of lakes to continuous canals and rivers with lakes in between as suggested in our hydrological plan .

