

Prof. Mazin Qumsiyeh

Previously faculty at Duke and Yale University,
now at Bethlehem University

Founded a number of laboratories and organizations
on human rights

Clinical and Research Cytogenetics Laboratory,
founded in 2009

Palestine Museum of Natural History,
founded in 2014

<http://www.palestinenature.org>





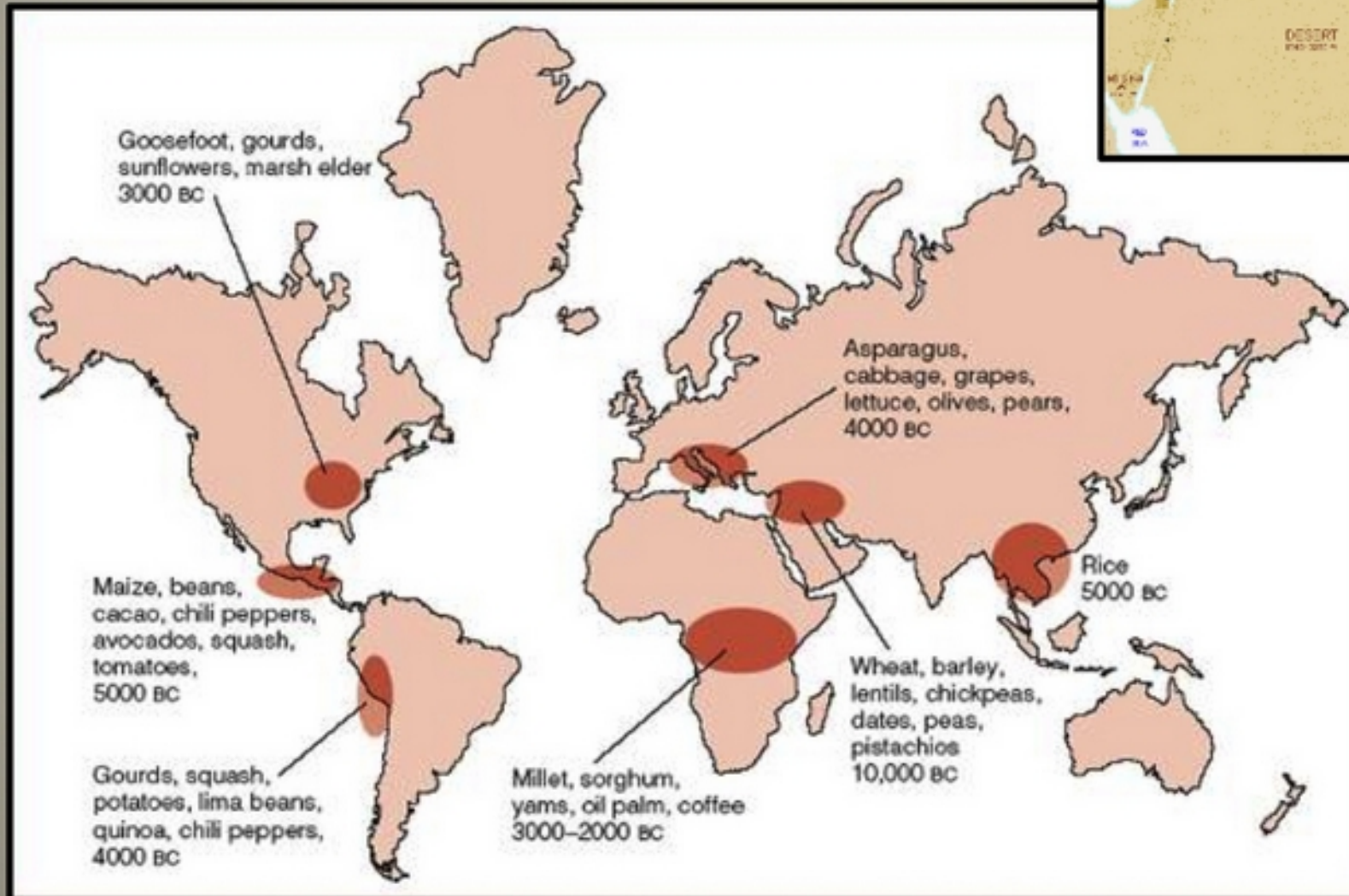
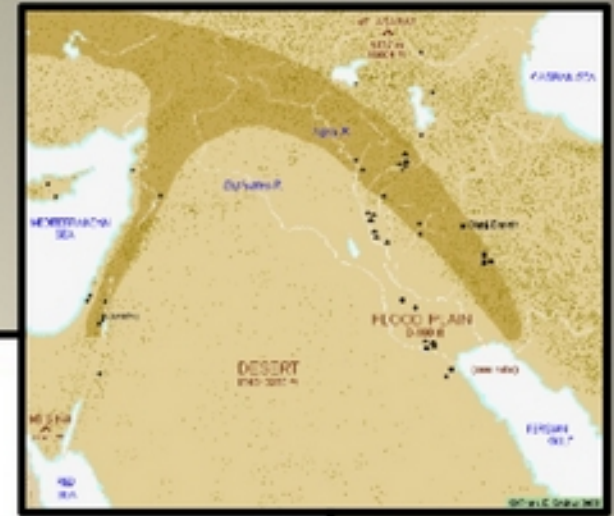
500 مليون طائر مهاجر يمر من
 فلسطين سنويا
 (أوروبا لإفريقي)

500 million migrating birds pass
 over Palestine on annual
 migrations Europe to Africa



Holy Land

The Fertile Crescent, first human agriculture



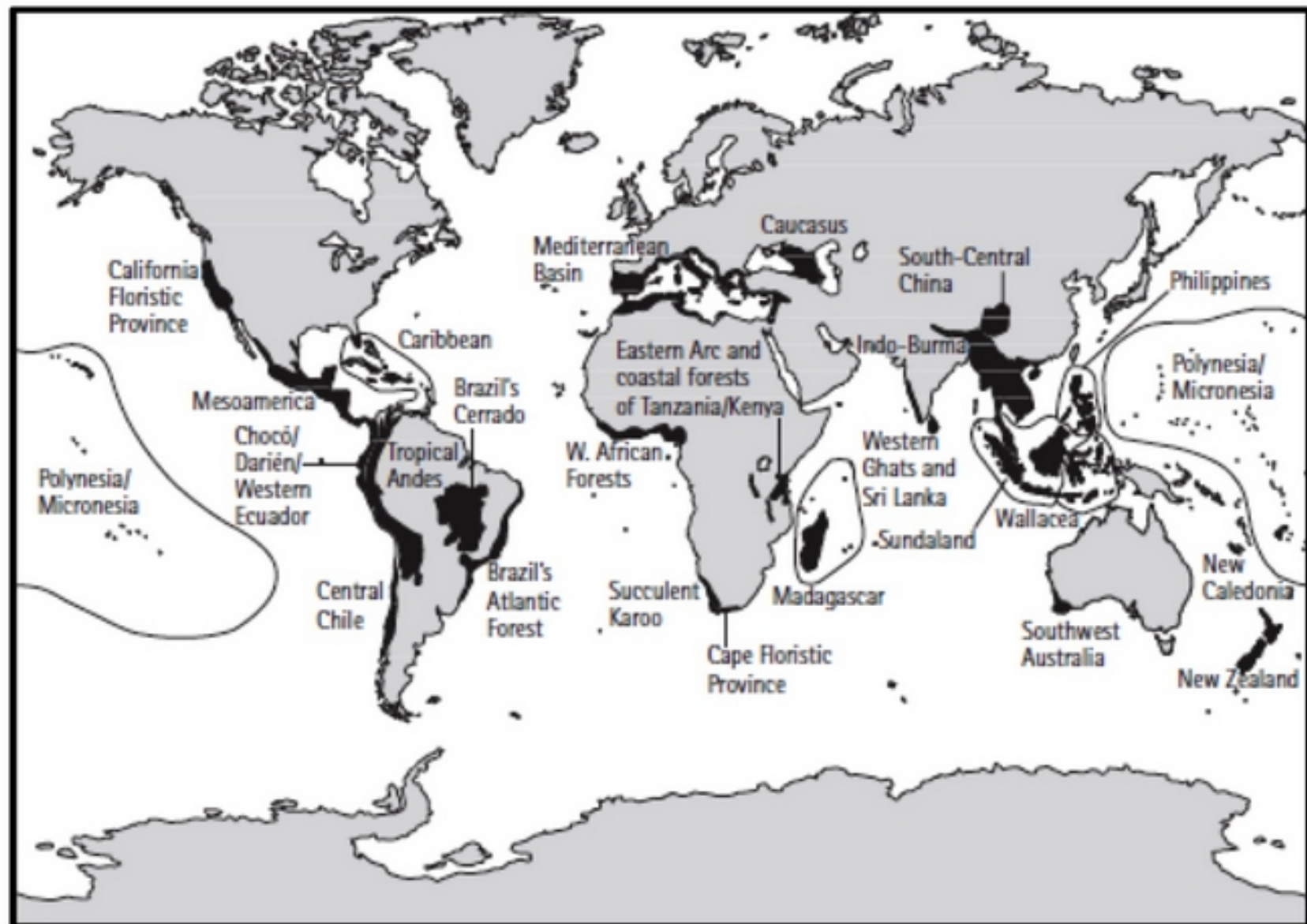
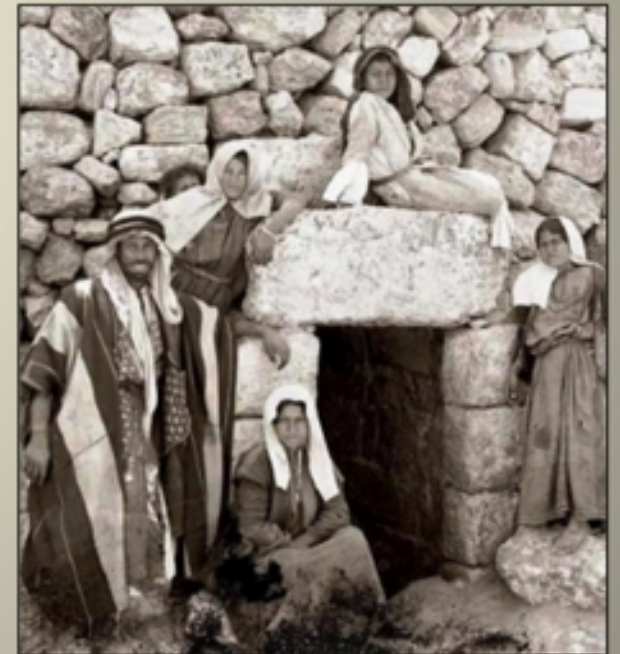


Fig. 3.8 The 25 global hotspots where exceptional concentrations of endemic species are undergoing exceptional habitat loss. (From Myers et al. 2000.)

		A
		B
		K
		L
		M
		O
		P/R
		T

Figure 5.1 Evolution of the alphabet signs
ABKLMORT



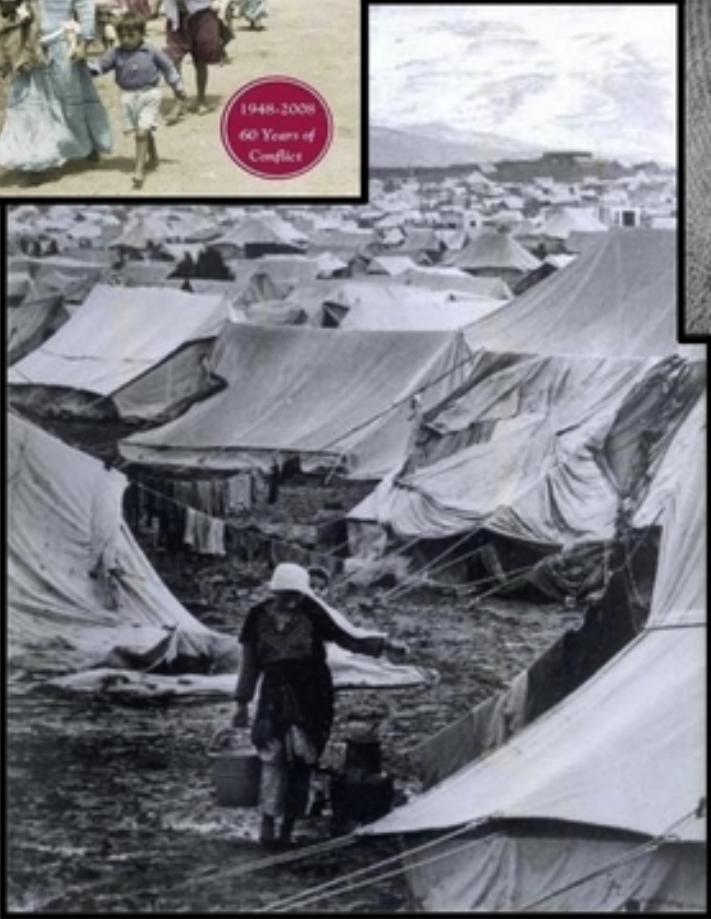
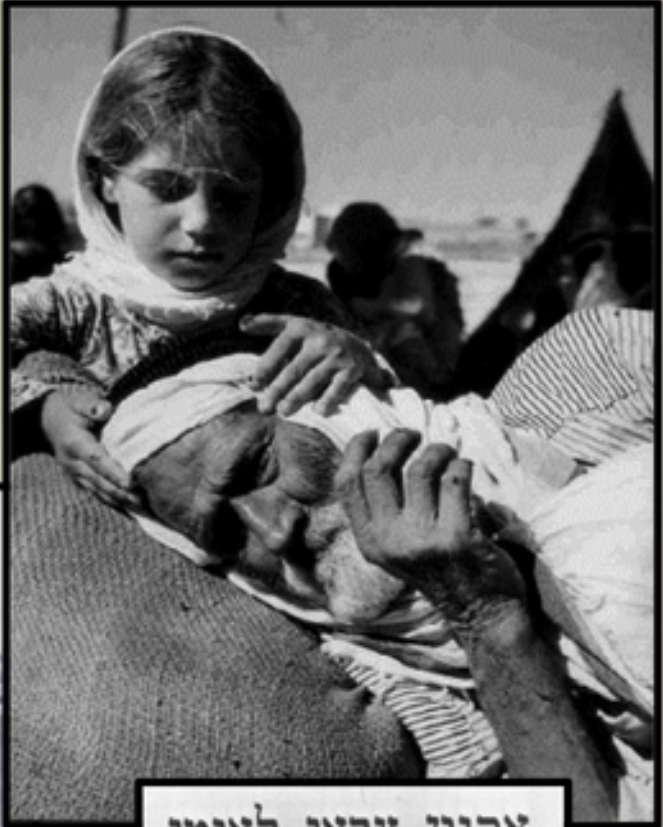
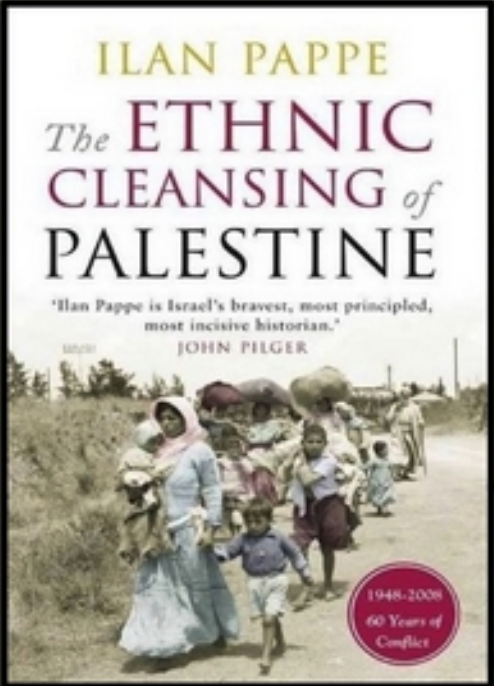


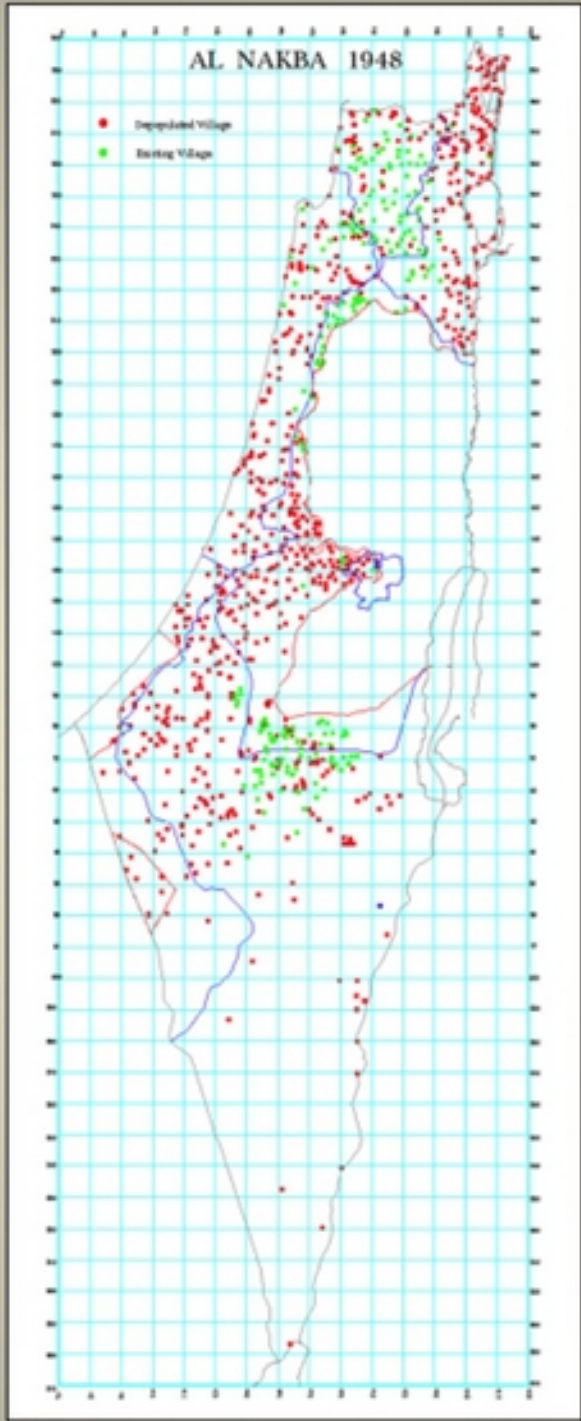


**1932 Religious and Secular Leaders meeting in Jerusalem:
DIVERSITY**









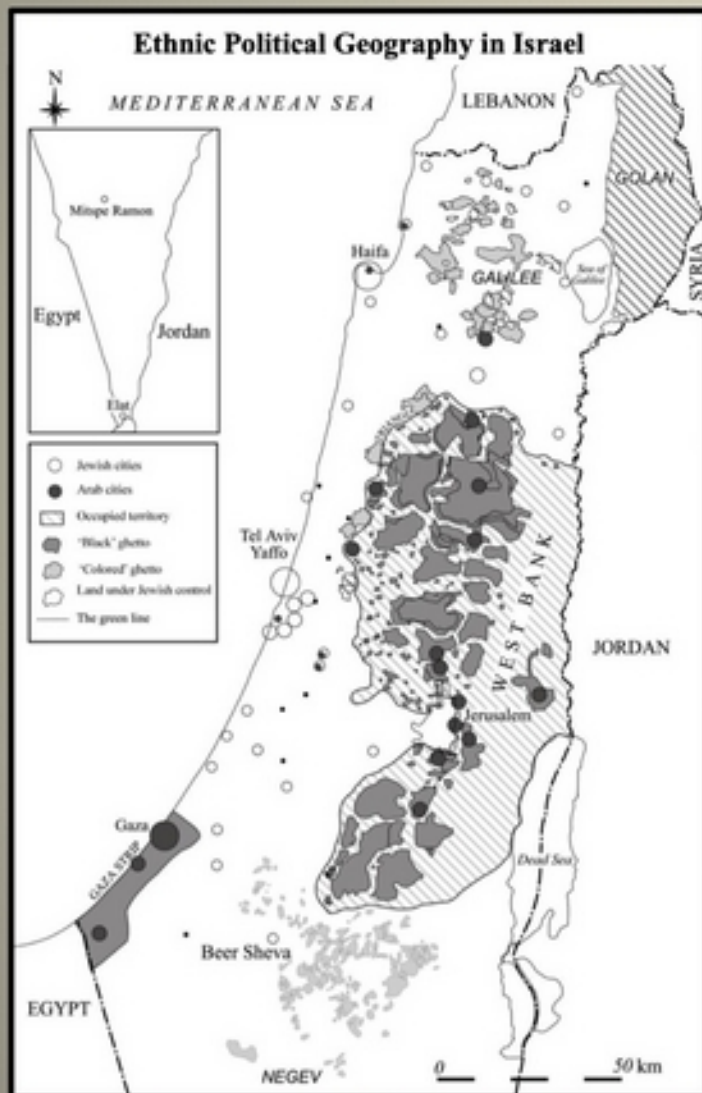
Ghada Karmi and Ellen Siegel in 1973 and 2011



Indigenous peoples' loss of land: Palestinians and Native Americans



Palestinians now restricted to 8.3% of the land in an Apartheid System



الصهيونية والاسْتعمار ضد التراث

- 1: أول مسْتعمرات يهودية صهيونية
تخيلت "أرض بلا شعب لشعب بلا أرض"



**Heavy price
paid since 1948:**

**More than 100,000
natives killed**

90 Children killed in 2021

More than 800,000 injured

**More than 900,000 detained/
imprisoned**



THREATS

Climate Change

Overexploitation

Pollution

Habitat Destruction

Invasive species

War/Militarism/
Settler Colonization



Ego



I am the one

You need me

Unity



We are one

We need each other



International Journal of Environmental Studies, 2013
<http://dx.doi.org/10.1080/00207233.2013.823050>



Genotoxic effects of Israeli industrial pollutants on residents of Bruqeen village (Salfit district, Palestine)

KHLOUD M. HAMMAD AND MAZIN B. QUMSIYEH

Biotechnology Masters Program, Bethlehem University, Bethlehem, Palestine



INTERNATIONAL JOURNAL OF ENVIRONMENTAL STUDIES, 2017
VOL. 74, NO 1, 66-74
<http://dx.doi.org/10.1080/00207233.2016.1236650>



Genotoxicity of recycling electronic waster in Idhna, Hebron District, Palestine

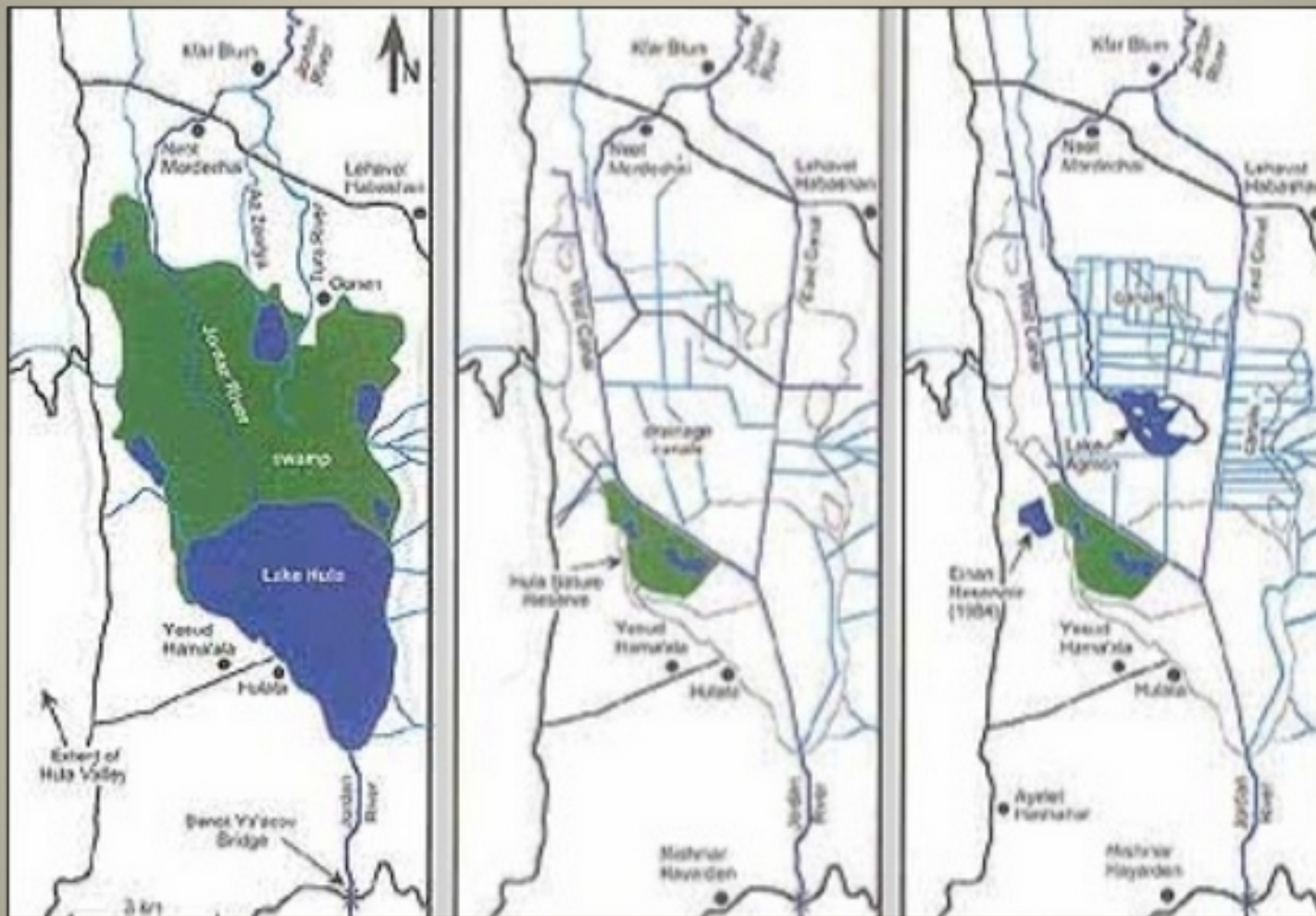
Nadia Khlaif and Mazin B. Qumsiyeh

Cytogenetics Laboratory and Palestine Museum of Natural History, Bethlehem University, Bethlehem, Palestine



Challenges: Mega projects





A future Palestinian Exclusive Economic Zone?



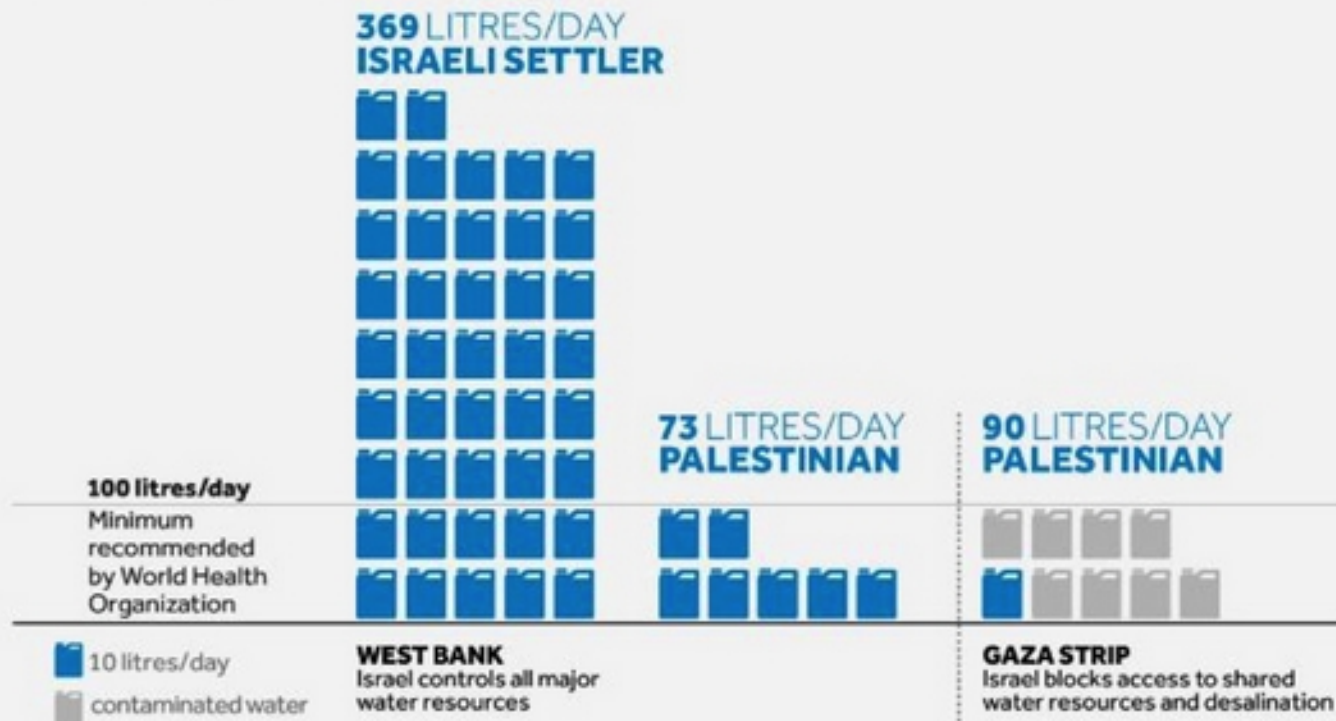


“Palestine is a dry country...”
... or is it?



ISRAEL EXPLOITS PALESTINIAN NATURAL RESOURCES

Israel controls all major water resources and distributes more than four times as much water to Israeli settlers on Palestinian land than to Palestinians themselves.

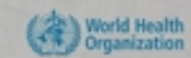
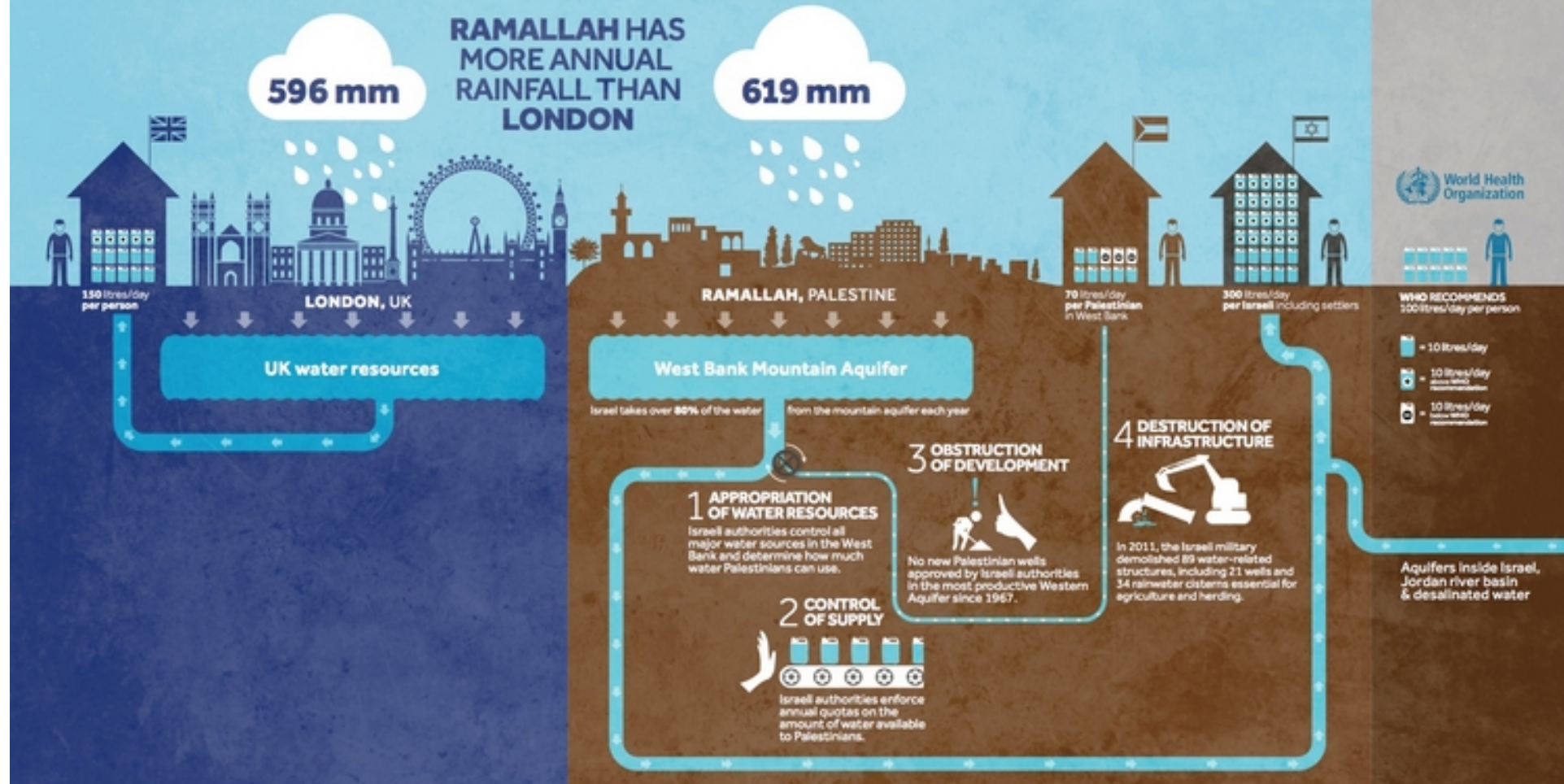




NOT ENOUGH WATER IN THE WEST BANK?

scarcity – desert – drought?

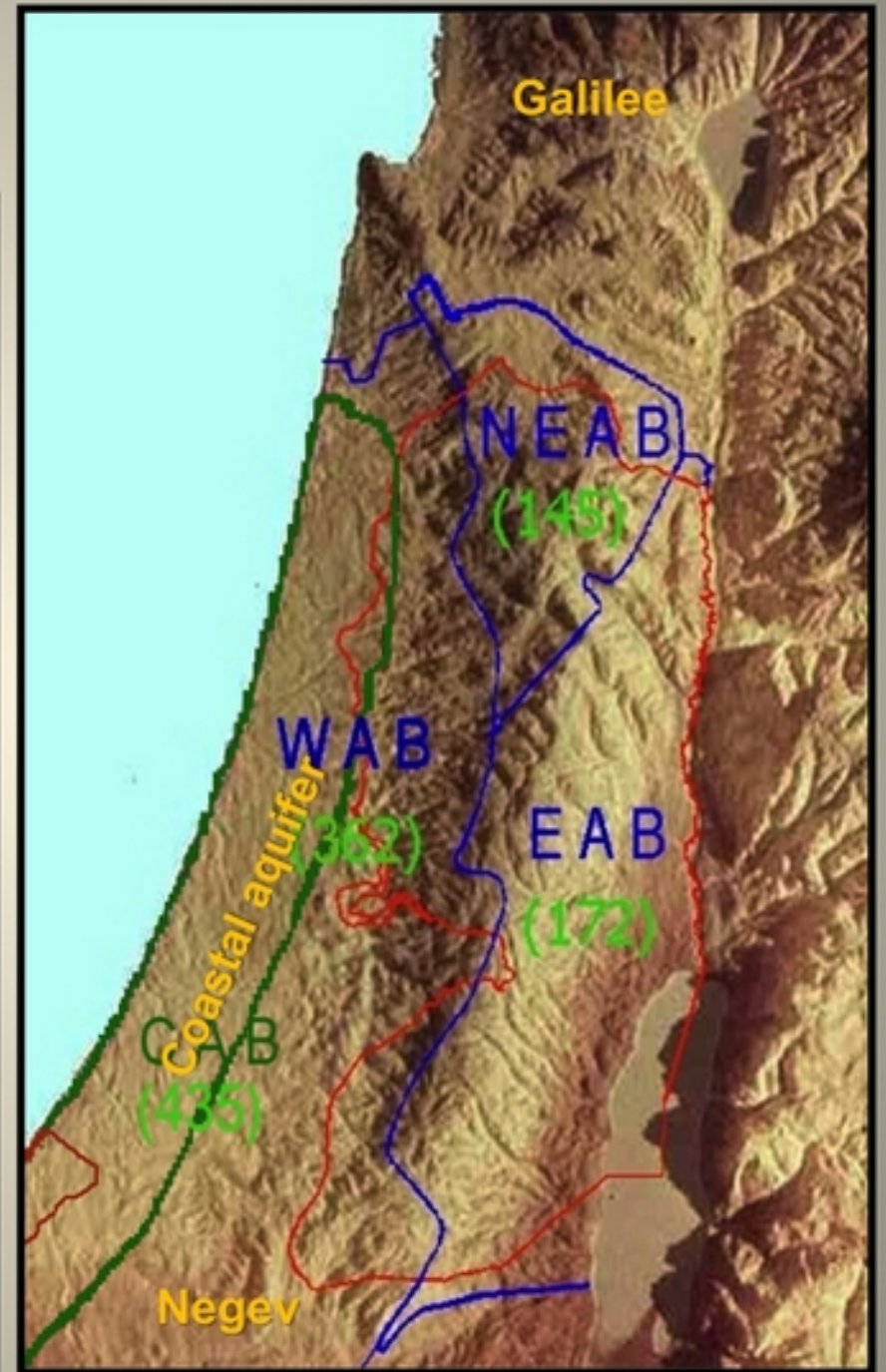
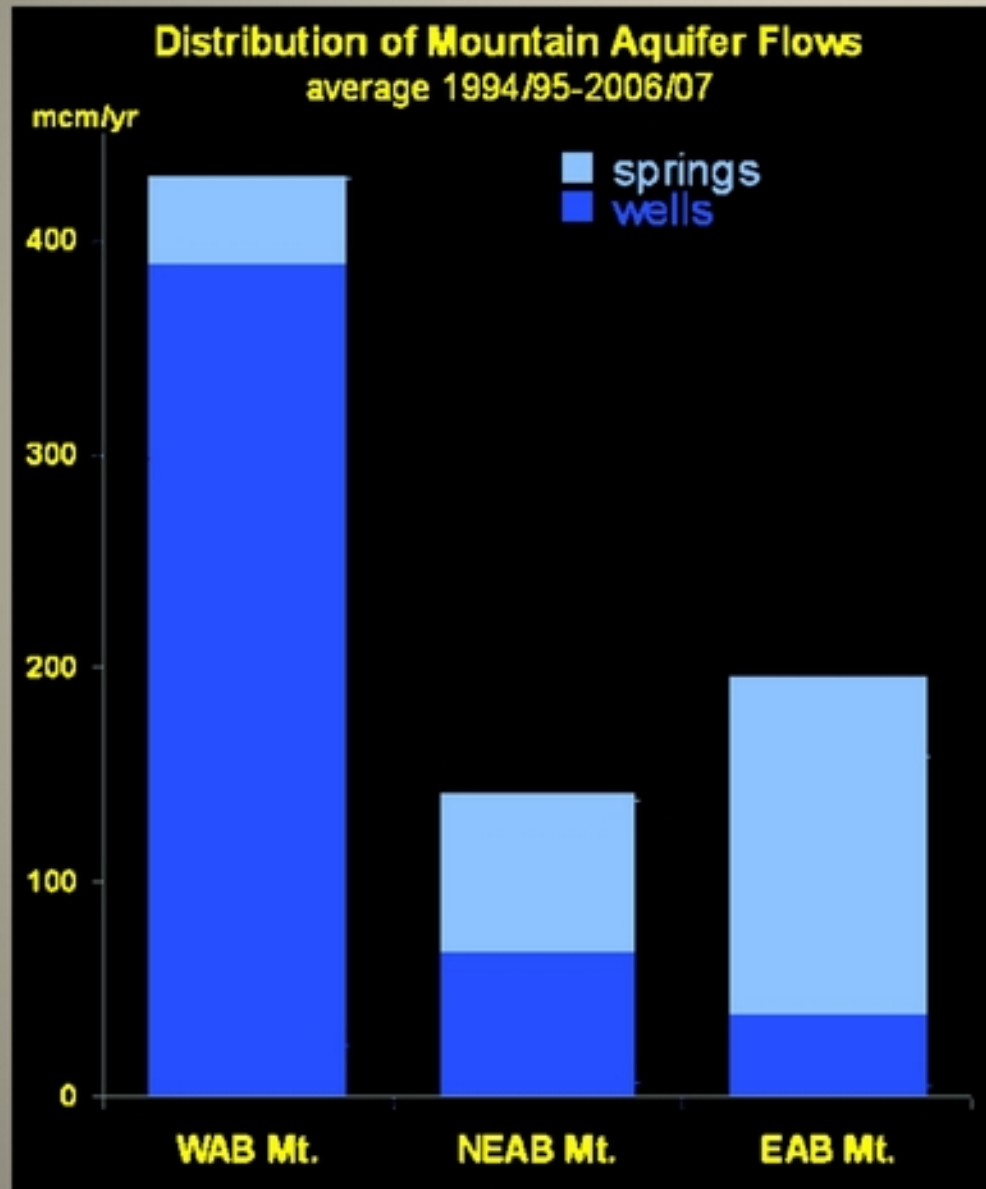
596 mm
RAMALLAH HAS MORE ANNUAL RAINFALL THAN LONDON
619 mm



Water consumption figures for domestic water use, excluding agricultural or industrial use.

SOURCES
London (annual rainfall, 1961–1990) from UK Met Office (2013). History: Station Data metoffice.gov.uk/datasets/stationdata
Ramallah (annual rainfall, 1961–1990) from PMA (2002). Rainfall variability and Change in the West Bank, SUSPAQ Project
Annex 2009. Troubled Waters – Palestinians denied fair access to water, p4
UK DEFRA, 2013. Domestic Water Saving (accessed on 7 February 2013) www.defra.gov.uk/environments/quality/water/consumption/domestic
WHO, 2003. Domestic Water Quantity, Service Level and Health, p1
1, 2. Amnesty, 2009. Troubled Waters – Palestinians denied fair access to water, p11–16
3. C. Hassarneh, 2007. Hydro-hegemony in shared Israel-Palestinian groundwater resources, p14
4. EWASH, 2012. Israel's restrictions on the WASH sector in the Occupied Palestinian Territory and their impact on vulnerable communities, p18

Resources



RAIN

“making the desert bloom”





*“making the
desert bloom”*
on whose account?



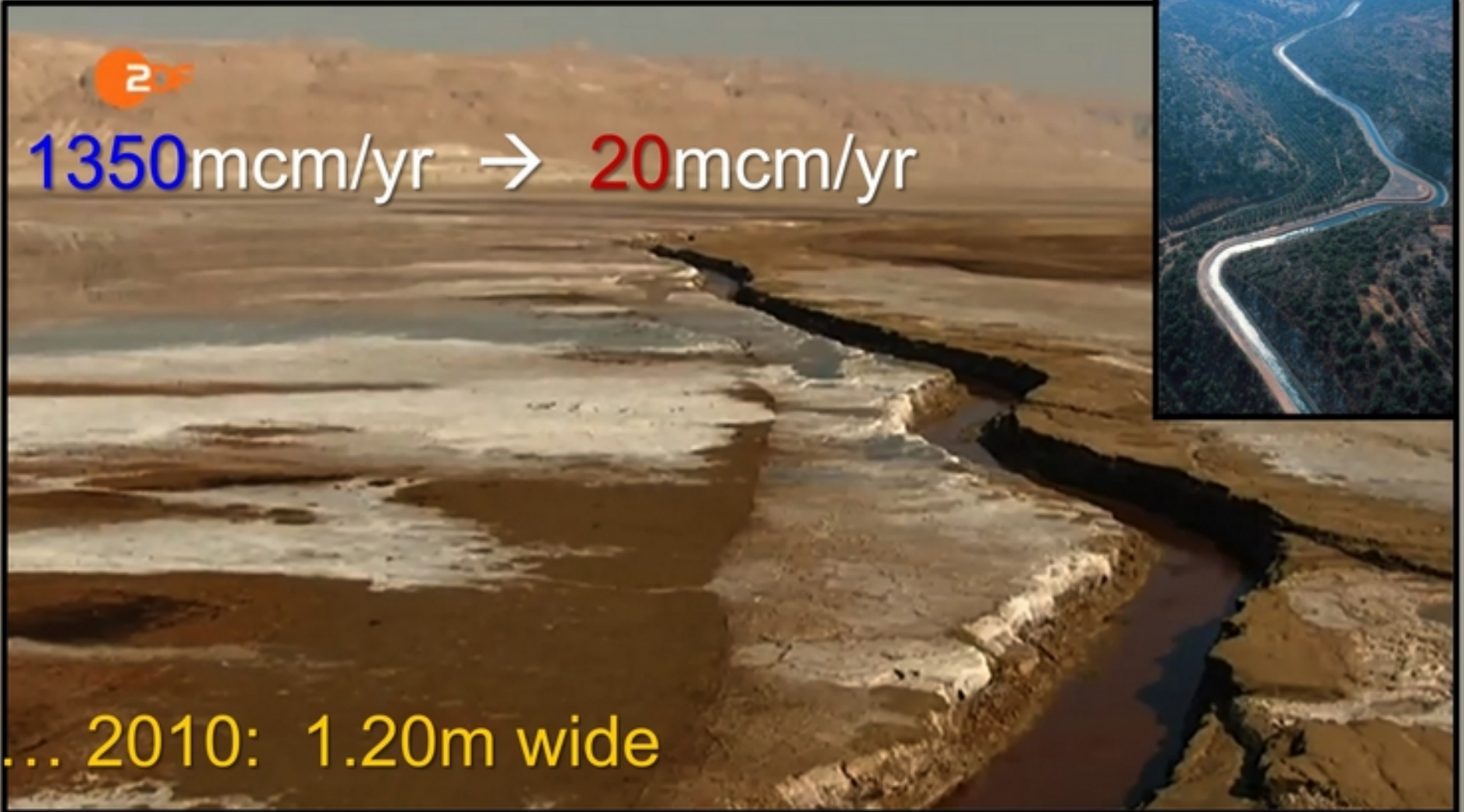
Jordan River at the Dead Sea



2

1350 mcm/yr → 20 mcm/yr

... 2010: 1.20m wide

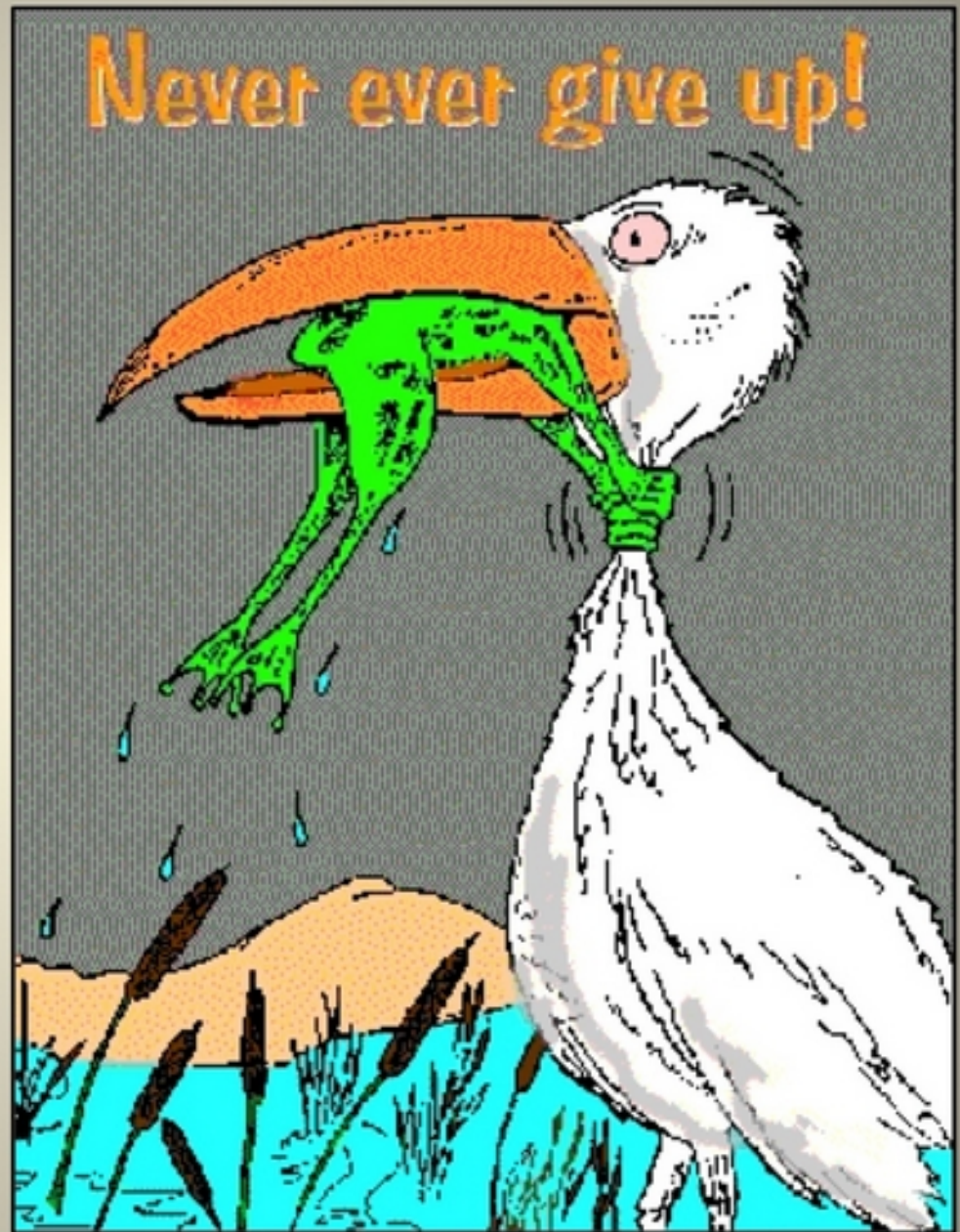






Solutions:

- Research
- Education
- Conservation





SUSTAINABLE DEVELOPMENT GOALS

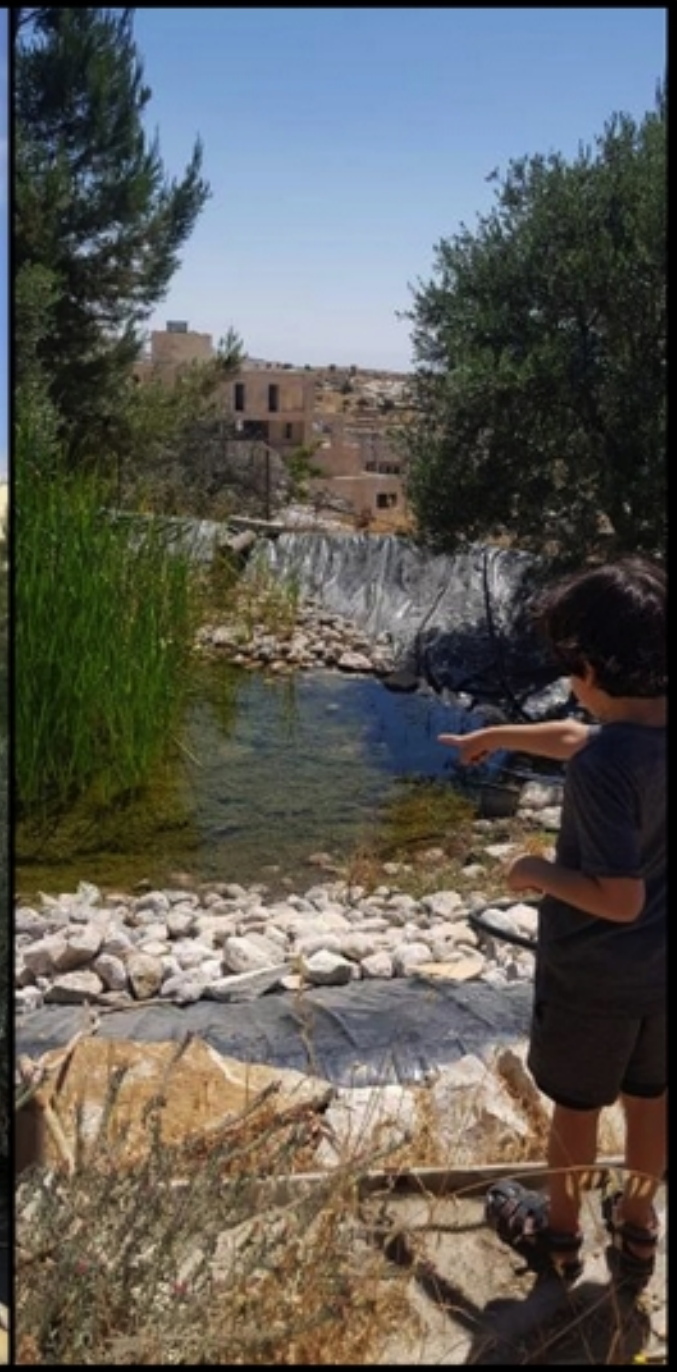




Logo of the Ministry of Education, Higher Education and Scientific Research, featuring a green dove and the text: **وزارة التعليم العالي والبحث العلمي** / **Ministry of Education, Higher Education and Scientific Research** / 1996

Logo of Bethlehem University, featuring a shield with a star and wheat stalks, and the text: **BETHLEHEM UNIVERSITY** / **جامعة بيت لحم**

Logo of the Faculty of Agriculture, featuring a purple flower and the text: **كلية الزراعة** / **Faculty of Agriculture**

















التراث الاعمى

View of irrigated terraces in 1892 (Palestine Exploration Fund).







summer CAMP

JUNE 28 - 29 JULY 1 - 2

At Palestine Museum of Natural History
For Ages 6-12, Registration: 100 ILS

OUTDOOR GAMES
SCIENCE EXPERIMENTS
ARTS AND CRAFTS
EXHIBIT TOURS
FIELD TRIPS

20 Seats Only









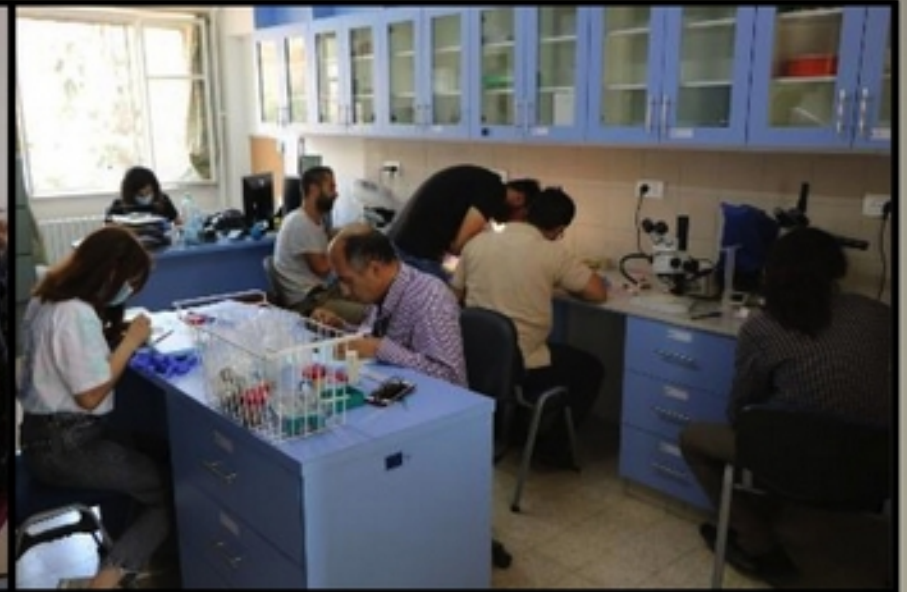






© palestine museum of natural history at bethlehem university





Palestine Museum of Natural History and Quarantine Renaissance Present:



Settler Colonialism and the Natural Environment

Every Tuesday at 9pm Palestine time on ZOOM
See event description for further details

This Week:
Reena Saeed

Palestine Action for the Planet: a
network for thinking globally and
acting locally



Meeting ID: 869 5705 2756
Passcode: 933201





The Biodiversity Center

Location icon
 Palestine Institute for Biodiversity and Sustainability
 Bethlehem University
 Mar Anous Building, Al-Karafa, Bethlehem, Palestine

+970-2-2773553

www.palestinenature.org

info@palestinenature.org

Palatine Institute for Biodiversity and Sustainability

Established By
 Bethlehem University

In Partnership with
 The Palestinian Center for Environmental Studies (PACES)

Funded By
 European Union
 The Royal Society

CRITICAL ECOSYSTEM PARTNERSHIP FUND





UN CLIMATE CHANGE CONFERENCE UK 2021



RESPECT
الاحترام

REUSE
إعادة استخدام

REDUCE
تقليل

RECYCLE
إعادة تدوير



LINKS:
PALESTINE ACTION FOR THE PLANET فلسطين من أجل الكوكب
www.palestineaction.org/palestine-action-for-the-planet/
PALESTINE INSTITUTE FOR BIODIVERSITY معهد فلسطين للتنوع البيولوجي والاستدامة
www.palestineinst.org/
EXTINCTION REBELLION تمرد الانقراض
www.rebellion.org/







SHOT ON MI A1



SHOT ON MI A1
MI DUAL CAMERA

2019/6/10 20:45









+970 2 2773553



www.palestinenature.org



info@palestinenature.org



Palestine Museum of Nature History



عمارة مار أندريا / الكركفة بيت لحم - فلسطين



Palestinian Civil Society Call to Action 2005

Boycott

Form of pressure through non-cooperation. Consumer actions include academic, cultural, sports, and product boycott.

 BDSmovement.net

Divestment

The selling of stocks or bonds from a company profiting from unjust practices. This is done by institutional investors like churches and universities.

Sanctions

Economic and diplomatic restrictions imposed by governments against other governments.

Palestinian Civil Society Call to Action 2005



➔ BDSmovement.net



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Coccinella septempunctata Spotted Ladybeetle
praying on *Aphis fabae* المن الأسود

!



PMNH ©

HERE WE WILL STAY

In Lidda, in Ramle, in the Galilee

We shall remain

Like a Wall on your Chest.

And in your Throat

Like a Shard of Glass, a Cactus Thorn.

And in your Eyes

A Sandstorm

هنا باقون

كاننا عشرون مستحيل

في اللد، والرملة، والجليل

هنا . . . على صدوركم، باقون كالجدار

وفي حلقكم

كقطعة الزجاج، كالصبار

وفي عيونكم

زوبعة من نار

بدرية