



PPNA: Neolithikum oder nicht?

Pro-Position: Ja, es war neolithisch

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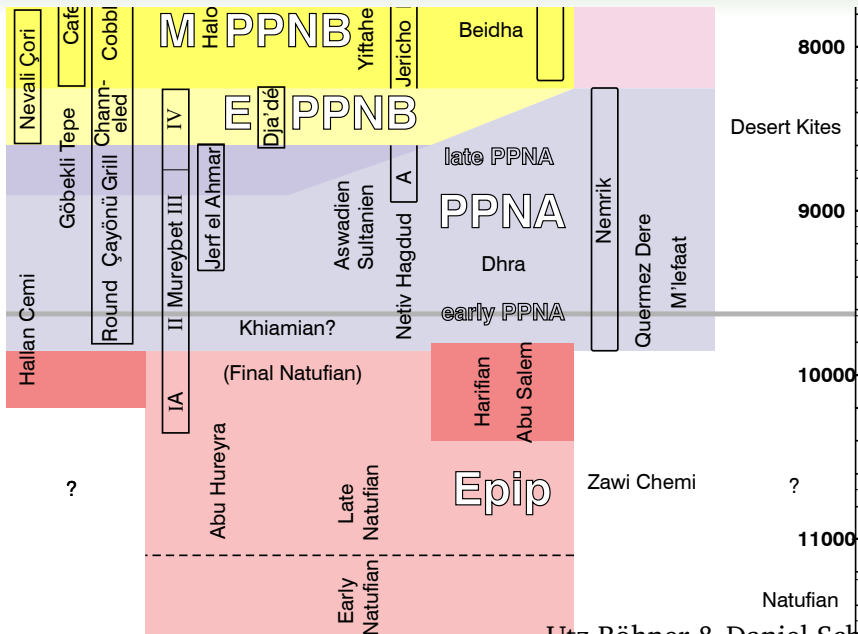
Seminar: Von den letzten jägerischen zu den frühesten
bäuerlichen Gesellschaften des nahen Ostens
Wintersemester 2014/15
Dr. Daniel Schyle



Gliederung

- ① Kulturstufen und Chronologie
- ② Wichtige Fundplätze
- ③ Das PPNA als neolithische Kulturstufe
- ④ Résumé

Chronologie nach Böhner und Schyle



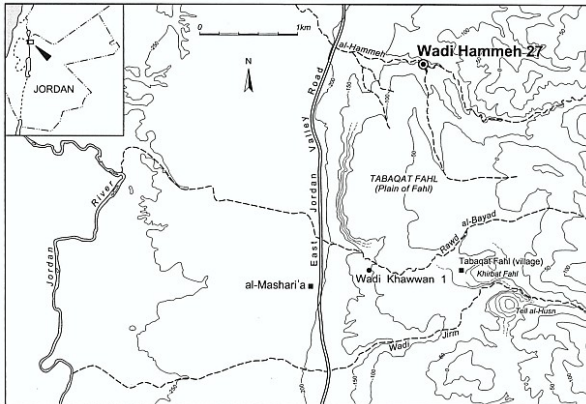


Klimaorientierte Chronologie nach Maher, Banning & Chazan

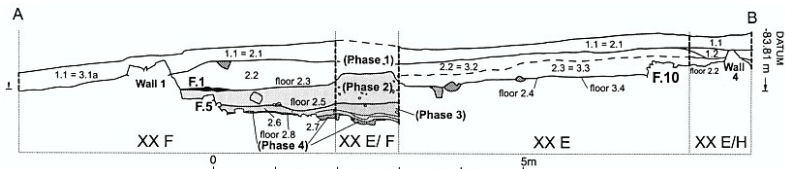
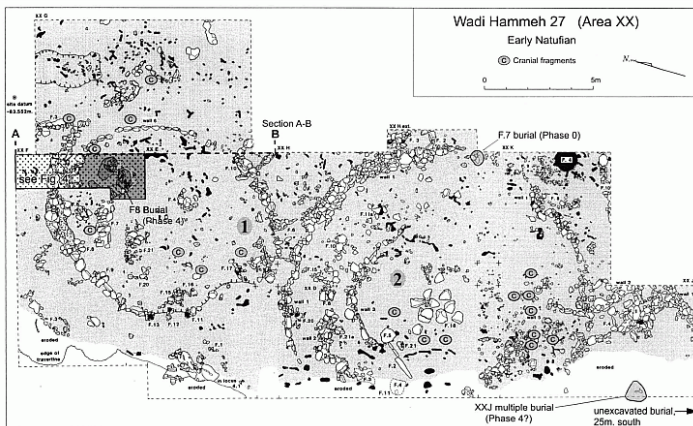
Date of onset (cal. BP)	Error (±)	Name	Peak	Duration (years)
8245	20	8.2 Event	8175	160
11,570	10	Pre-Boreal	11,400	1500
12,900	120	Younger Dryas	N/A	1200
14,670	35	Bølling-Allerød	N/A	1800
16,800	150	Heinrich 1 Event	16,600	100–500
25,000	500	Last Glacial Maximum	22,000	8000

Culture/Period	Date of onset (68% confidence, ka cal. BP)	Date of onset (95% confidence, ka cal. BP)
Wadi Rabah	7.8–7.7	7.9–7.6
Yarmoukian	8.45–8.36	8.52–8.3
PPNC	9.0–8.7?	9.0–8.7?
Late PPNB	9.53–9.45	9.56–9.4
Middle PPNB	10.45–10.3	10.54–10.26
PPNA	11.9–11.7	12.1–11.6
Late Natufian	13.58–13.04*	13.74–12.95*
Early Natufian	15.08–14.74	15.37–14.57
Geometric Kebaran	17.89–17.66	18.0–17.5

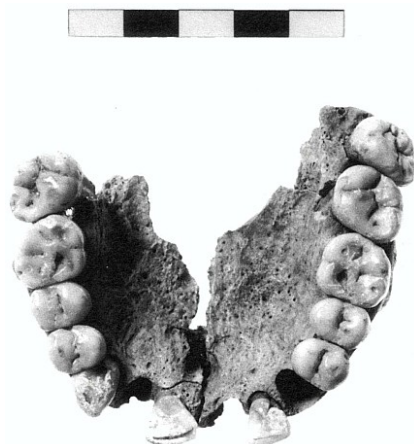
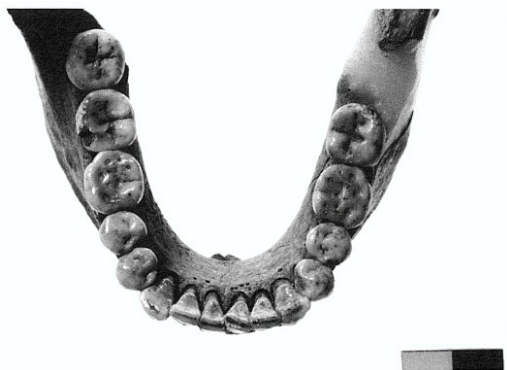




Wadi Hammeh 27, Grabungsfläche

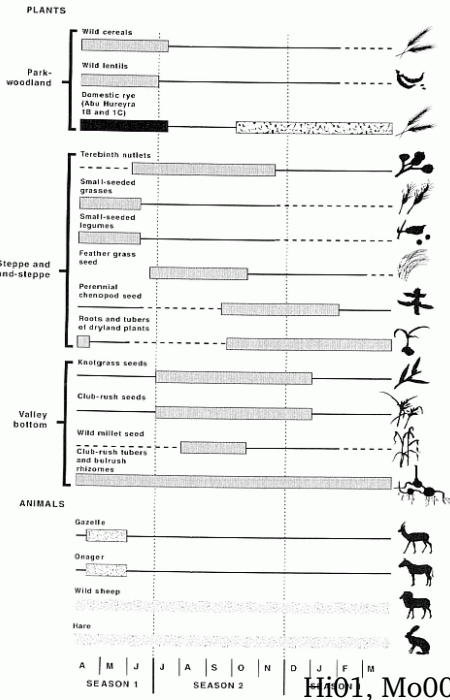
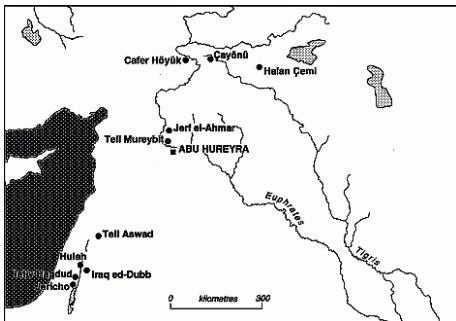


Wadi Hammeh 27, Ernährung



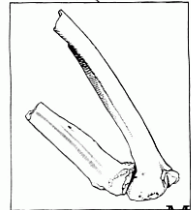
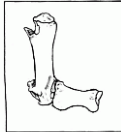
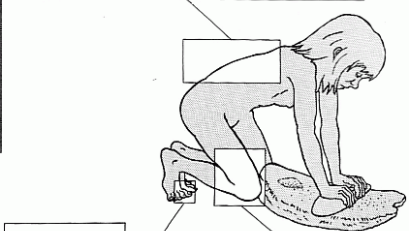
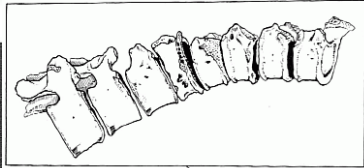
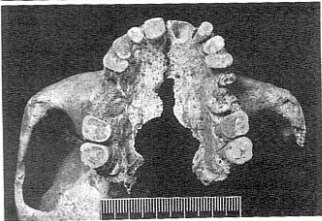
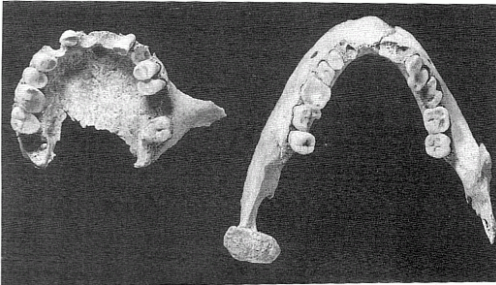
Unter- und Oberkiefer der Bestattung Homo 1, adult, mit kaum abgenutzten gesunden Zähnen und möglicherweise tödlicher Schädelverletzung [We02, 111].

Abu Hureyra, Natufien (13.4–12.5 ka cal BP)



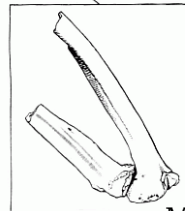
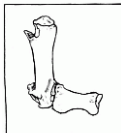
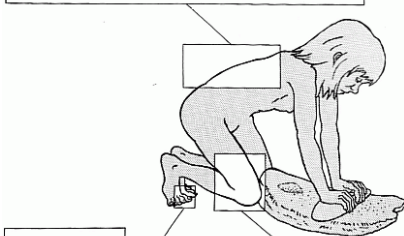
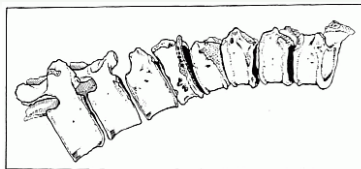


Abu Hureyra, intensive Nutzung von Grassamen



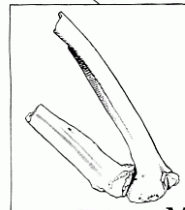
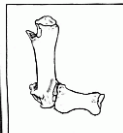
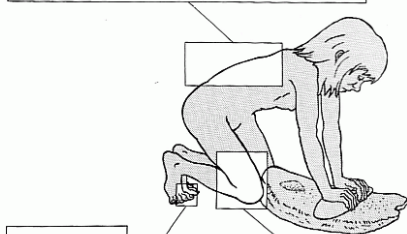
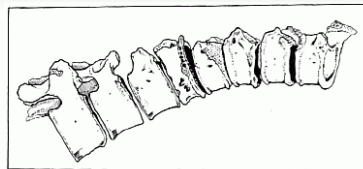


Abu Hureyra, intensive Nutzung von Grassamen



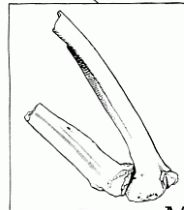
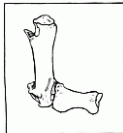
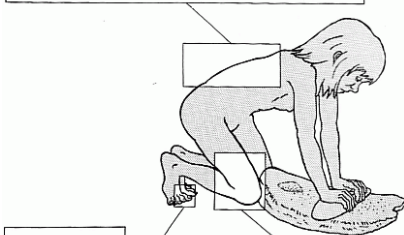
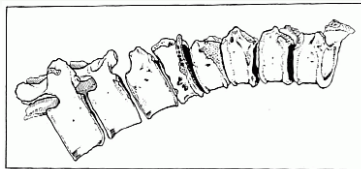


Abu Hureyra, intensive Nutzung von Grassamen



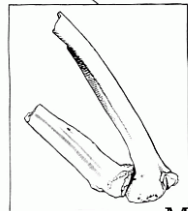
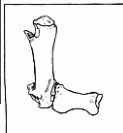
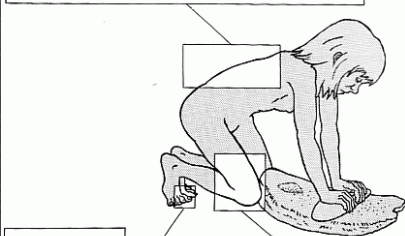
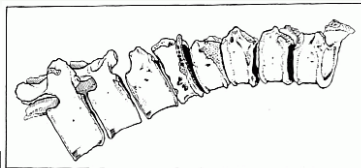
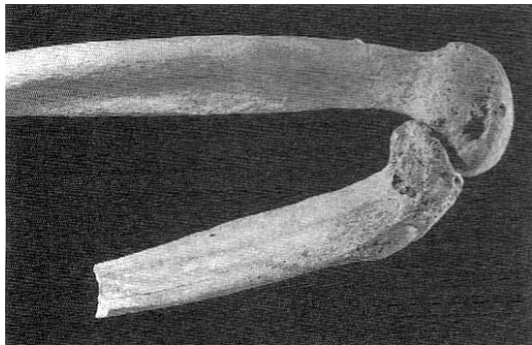


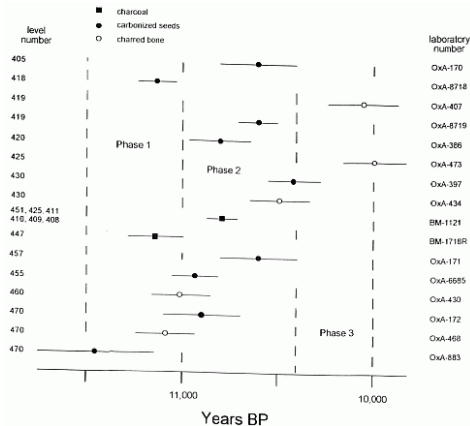
Abu Hureyra, intensive Nutzung von Grassamen





Abu Hureyra, intensive Nutzung von Grassamen

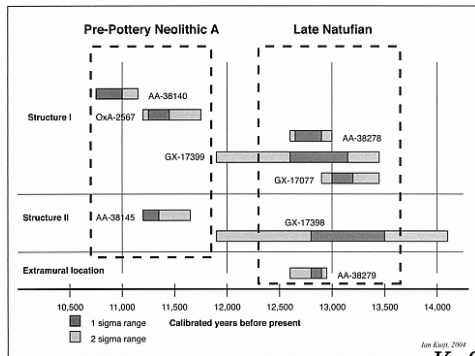
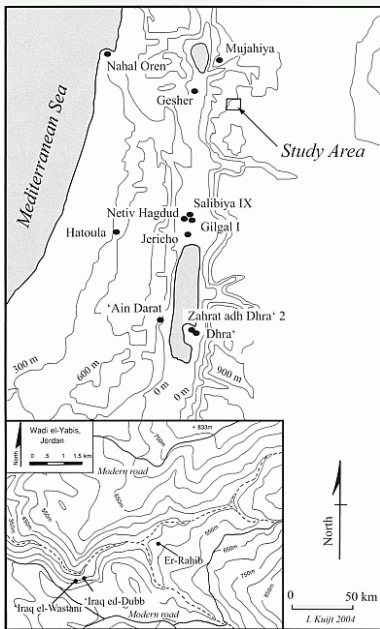




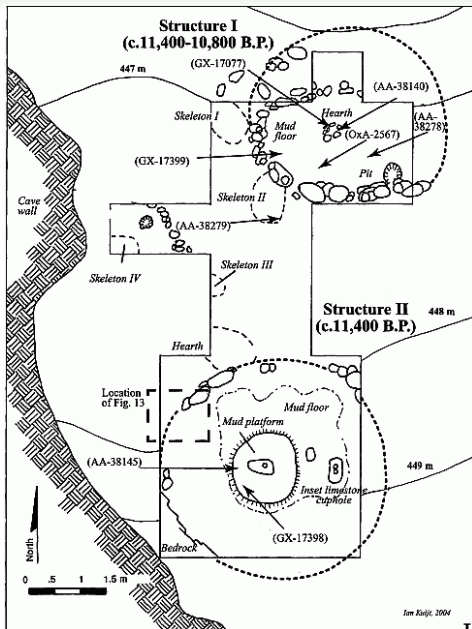
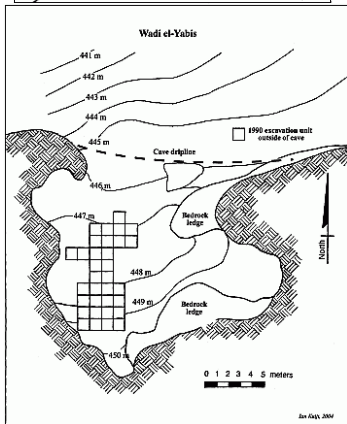
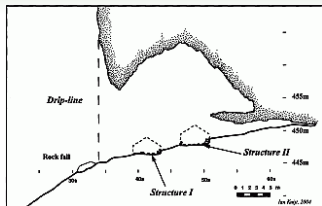
Datierung der Natufienphasen von Abu Hureyra in unkalibrierten C14-Jahren bp. Die Phasen 2 und 3 entsprechen der Jüngerer Dryas [Mo00].



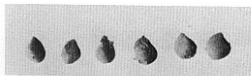
Iraq ed Dubb, Spätnatufien und PPNA (13.5–10.5 ka cal BP)



Iraq ed Dubb, Grabungsplan



Jericho, durchlaufend Natufien bis Bronzezeit



1



2



3



4



5



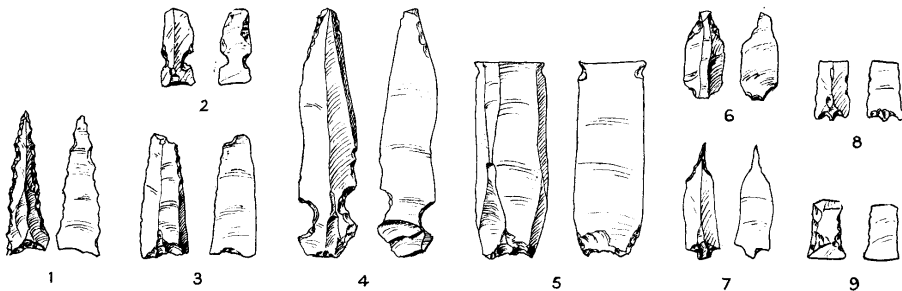
6



7

1: Feige; 2+3: ein Gerstenkorn von zwei Seiten; 4-7: PPNB [Ke83, Tafel 25].

Jericho, Proto-Pfeilspitzen



Proto-Pfeilspitzen aus dem Sultanien von Jericho (PPNA) [Ke83, 648].

Der Turm von Jericho

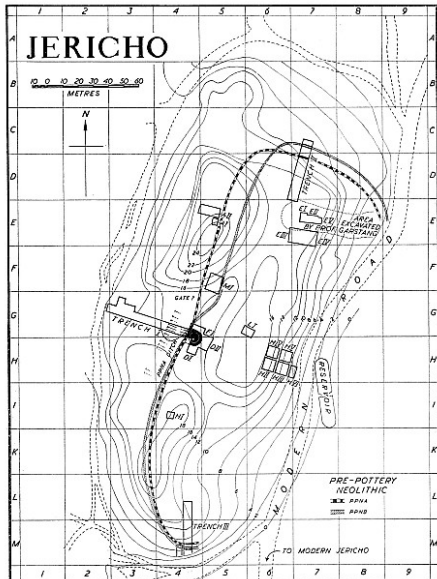
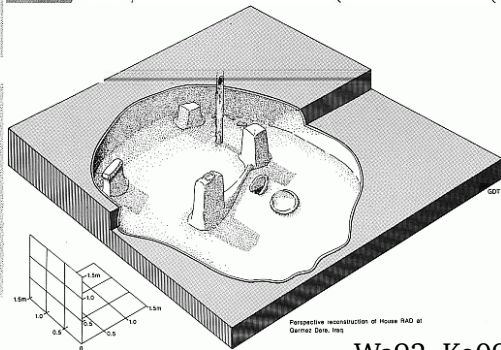
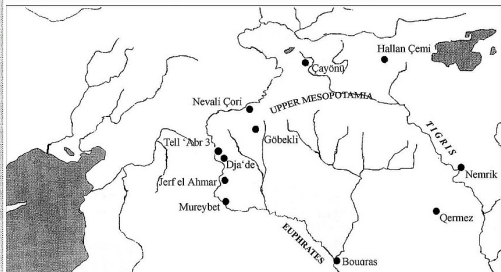
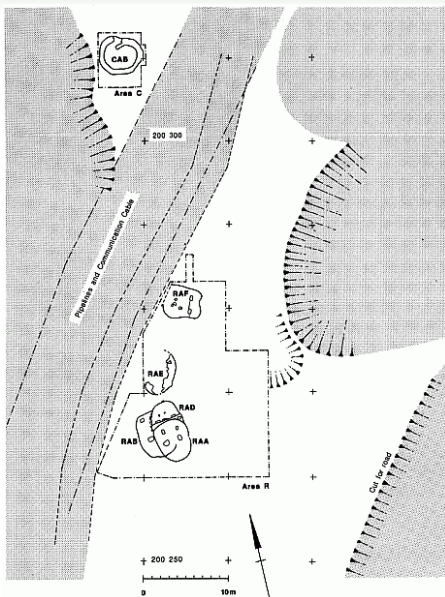


FIG. 2. Plan of Pre-Pottery Neolithic town walls



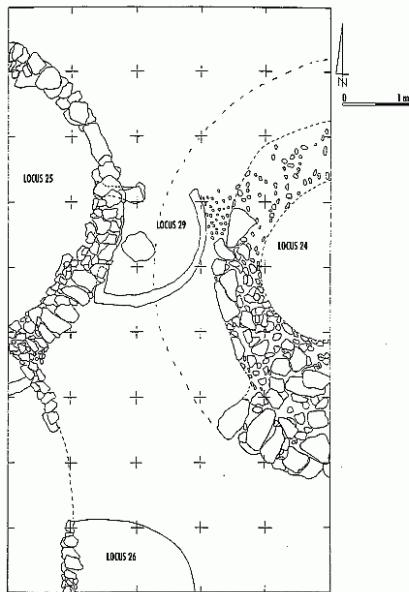
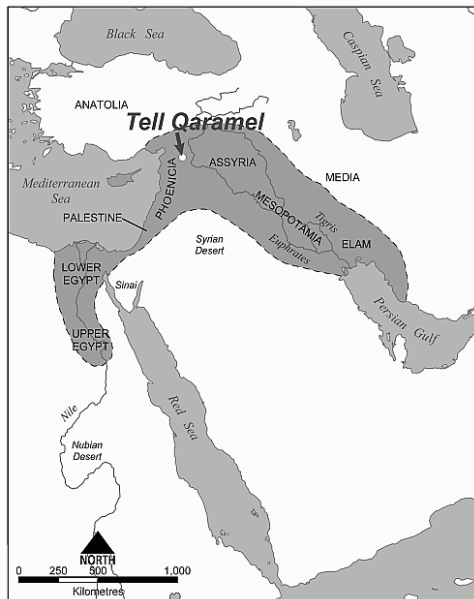


Quermez Dere, frühes PPNA (11.9–11.3 ka cal BP)





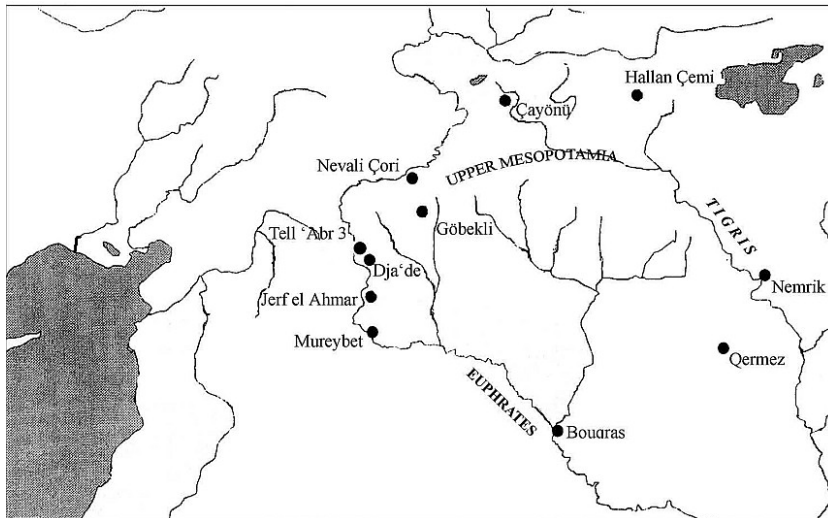
Qaramel, Spätnatufien und PPNA (12.9–10.8 ka cal BP)



Ma01, Ma09



Hallan Çemi, Final Natufian (nach 12.0–11.6 ka cal BP)

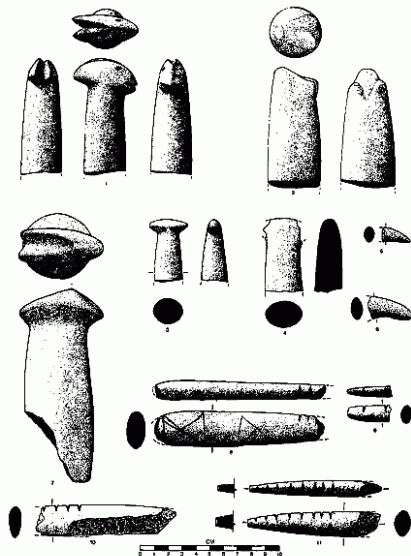
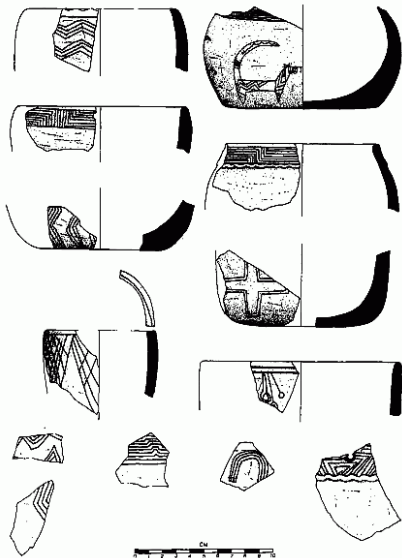


Hallan Çemi, rezente Eichenwälder



Die Umgebung von Hallan Çemi war auch auf dem Höhepunkt der jüngeren Dryas noch bewaldet [Ro98].

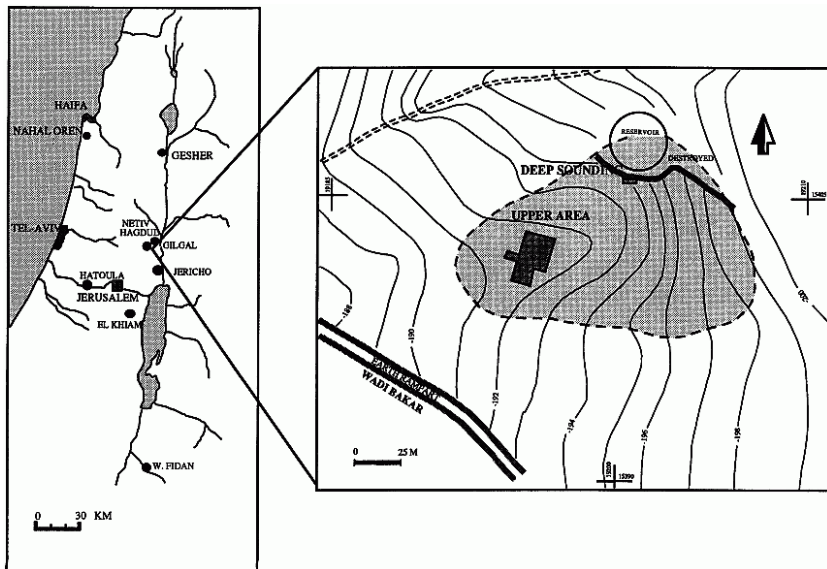
Hallan Çemi, Steingefäße und Stöbel



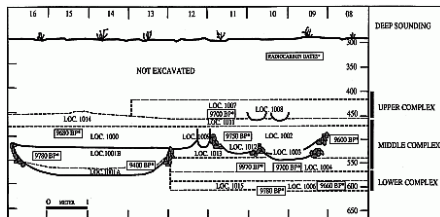
Verzierte Steinschalen, Stöbel und Szepter aus Hallan Çemi [Ro00].



Netiv Hagdud, frühes PPNA (11.5–10.5 ka cal BP)

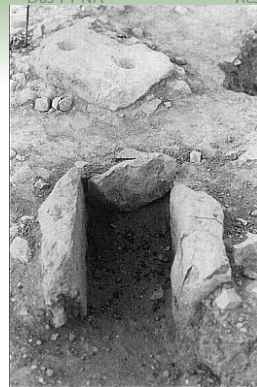
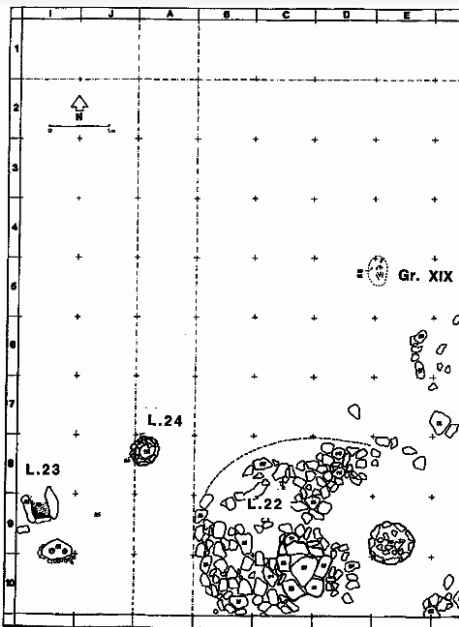


4B



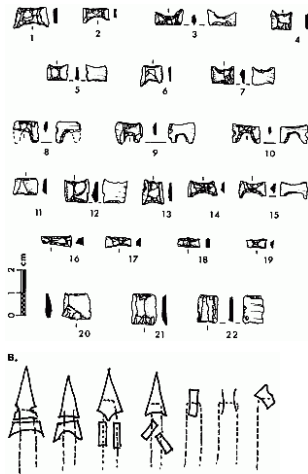
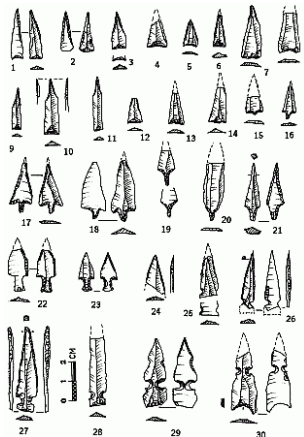
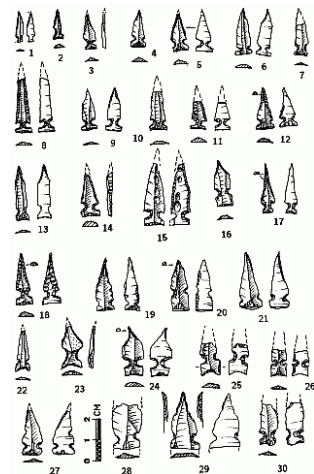


Netiv Hagdud, Herd, Grube und Mörser



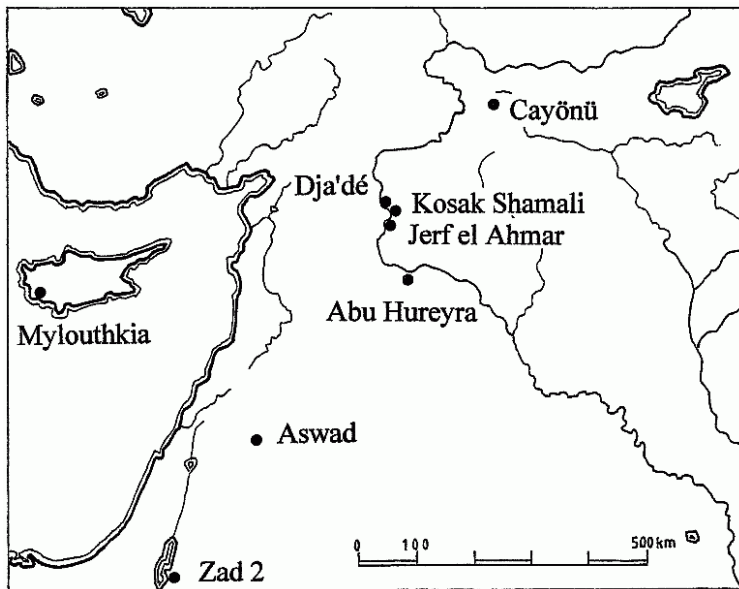


Netiv Hagdud, Pfeilspitzen und Hagdud Truncations

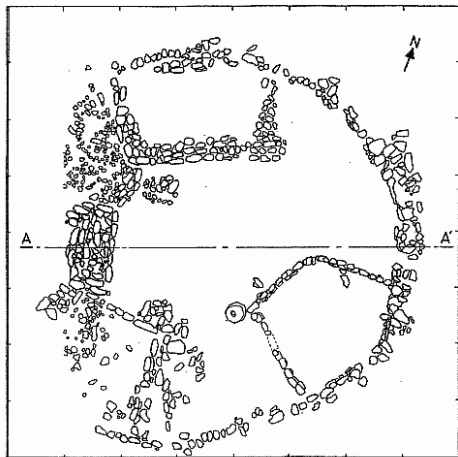




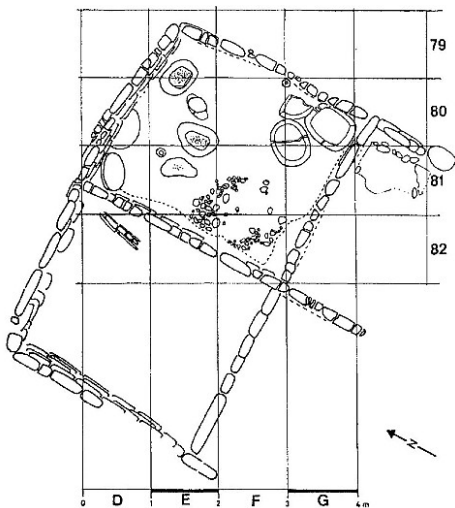
Jerf el-Ahmar, mittleres PPNA (11.0 ka cal BP)



Jerf el-Ahmar, Gebäudegrundrisse



section: AA'



Jerf el-Ahmar, Getreideverarbeitung



Abgebranntes Sondergebäude zum Einweichen und Mahlen von Getreide, Blick von Osten [Wi02].

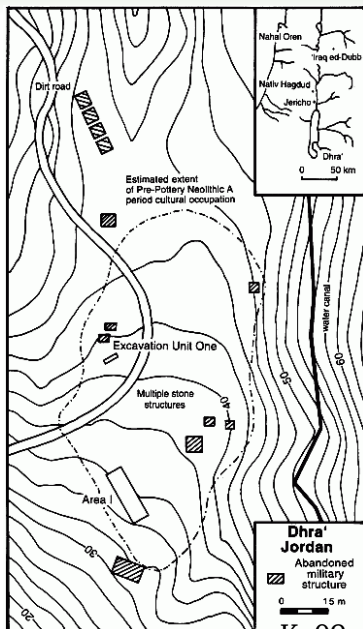
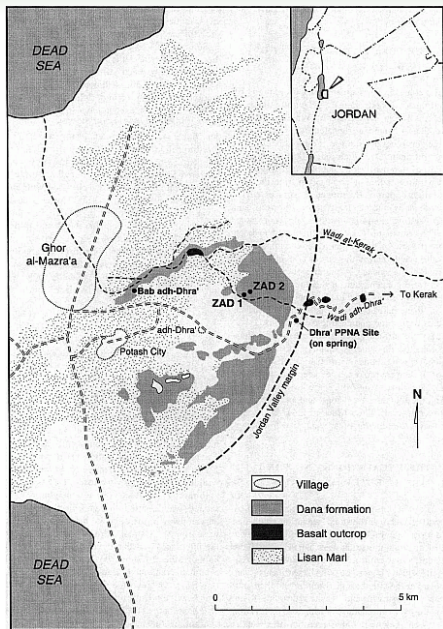
Jerf el-Ahmar, Community Building



Das älteste der drei Community Buildings [Wa10, 626].



Dhra', mittleres PPNA (11.2 ka cal BP)



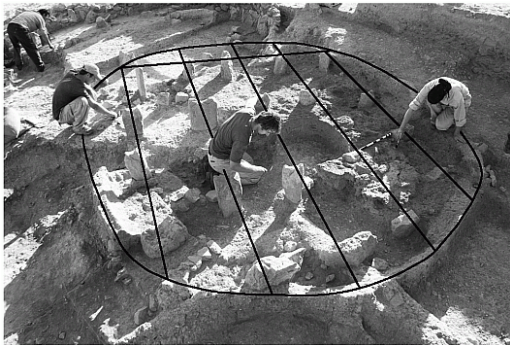


Dhra', Speichergebäude

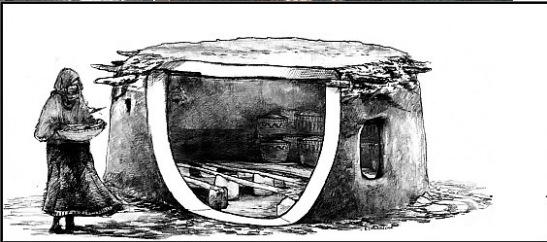
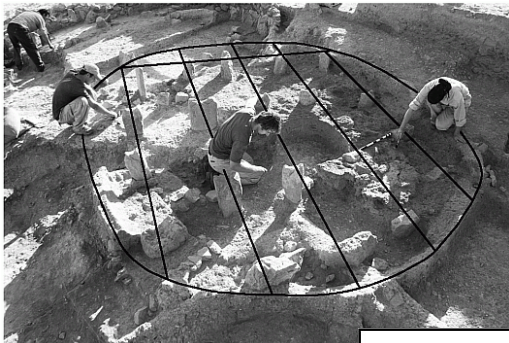




Dhra', Speichergebäude



Dhra', Speichergebäude



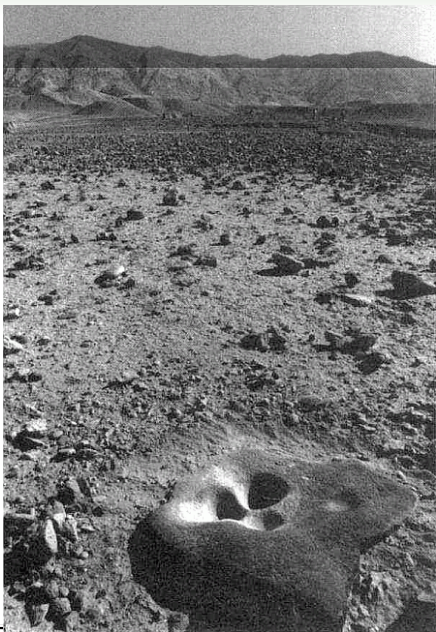


Dhra', hoher Anteil an Pfelspitzen im Steininventar

Type	Upper 10 cm	Above Structure I	Inside Structure I	Total
El-Khiam point	4	32	20	56 (33.9%)
Salibiya point	1	2	3	6 (3.6%)
Multi-notch point	–	0	3	3 (1.8%)
Undiagnostic point fragment	1	11	11	23 (13.9%)
Borer	7	8	15	30 (18.2%)
Sickle blade	1	1	–	2 (1.2%)
Scraper	–	2	1	3 (1.8%)
Retouched blade	4	6	14	24 (14.5%)
Retouched fragment	6	1	4	11 (6.6%)
Notches	–	–	1	1 (0.6%)
Double tool	–	–	2	3 (1.8%)
Bifacial tool	–	1	2	3 (1.8%)
Total	24	65	76	165



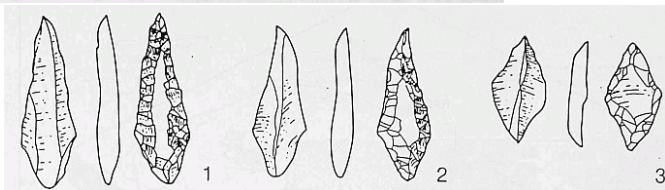
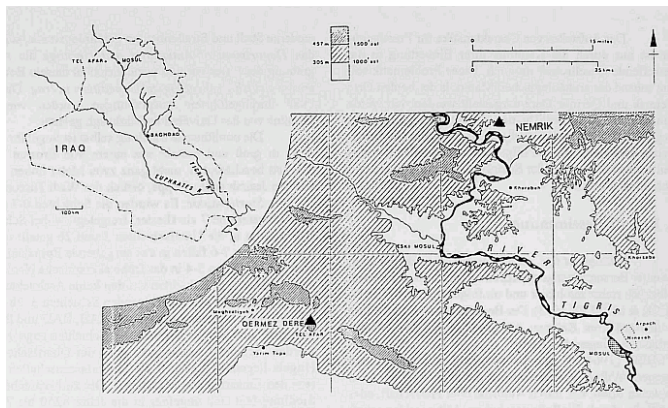
Zahrat adh-Dhra' 2, mittleres PPNA (10.8 ka cal BP)



Ed02a, Ed02b

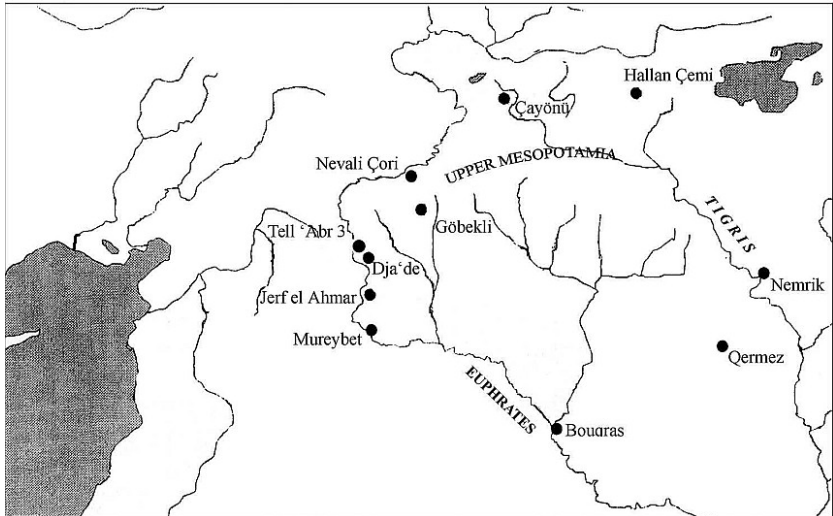


Nemrik, spätes PPNA und PPNB



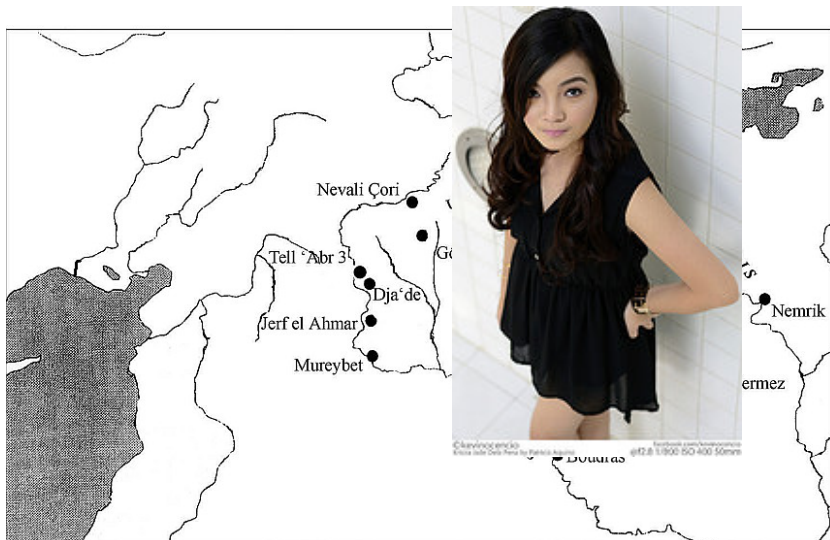


Dja'de, PPNA–PPNB (10.9–10.1 ka cal BP)



Google: Dja'de PPNA $\Rightarrow$

Dja'de, PPNA-PPNB (10.9–10.1 ka cal BP)



Google: Dja'de PPNA $\Rightarrow$ Jade Pena.



Eine Einheit mit dem Natufien

Natufien und PPNA bilden anscheinend ein nach beiden Seiten deutlich abgegrenztes kulturelles Kontinuum.

- Seßhaftigkeit oder ritueller Siedlungsbezug
- Feste Rundbauten mit Steinfundament
- Intensive Getreidenutzung ohne Domestikation
- Siedlungsbestattungen



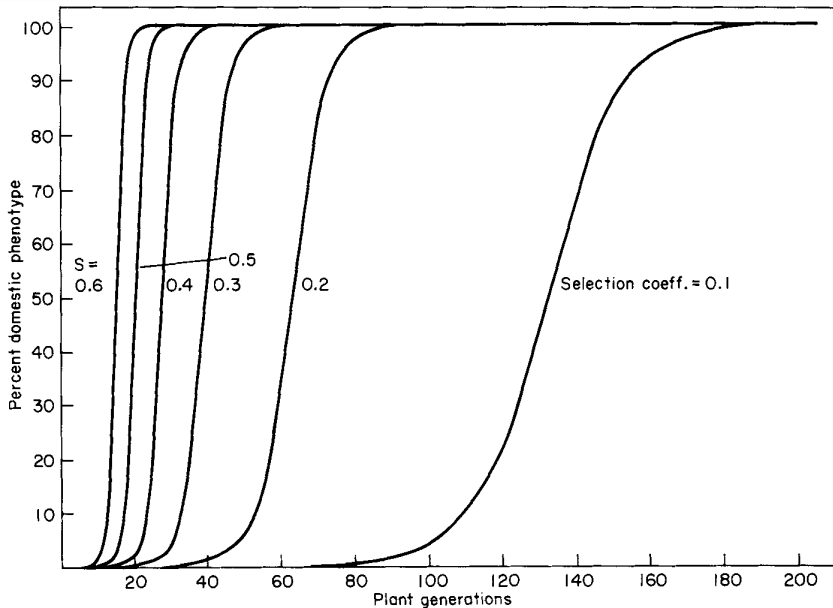
Wandel in der Bauweise

Im Hausbau des PPNA zeichnet sich ein deutlicher Kulturwandel ab.

- Große Reinlichkeit im Inneren
- Lehmziegel
- Aufwendiger Kalkestrich
- Bestattungen im Haus

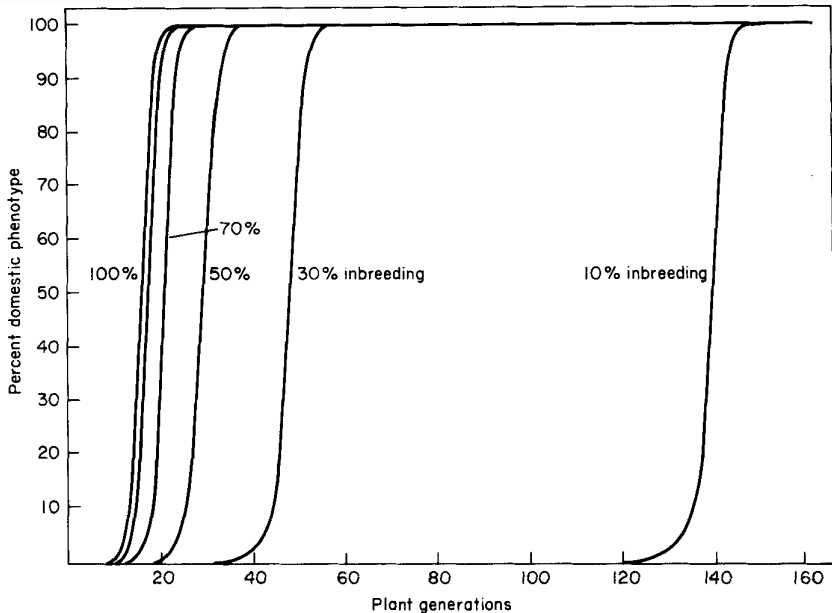


Domestikationsmodell bei Aussaat und Selbstbestäubung



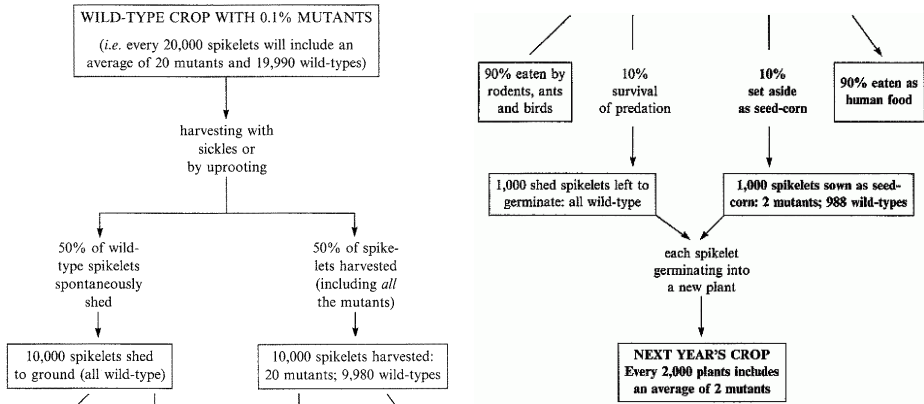


Domestikationsmodell bei Aussaat und 60 % Verlust

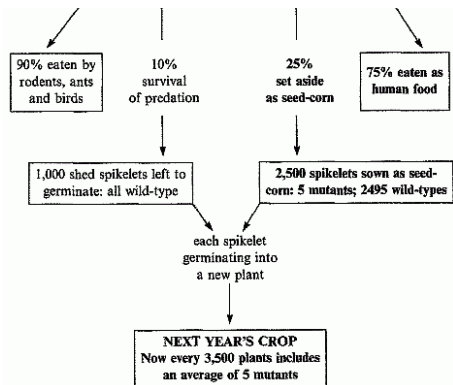
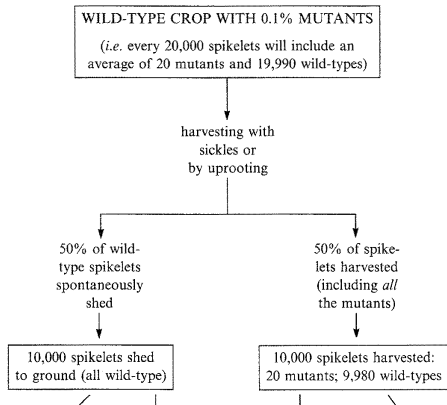




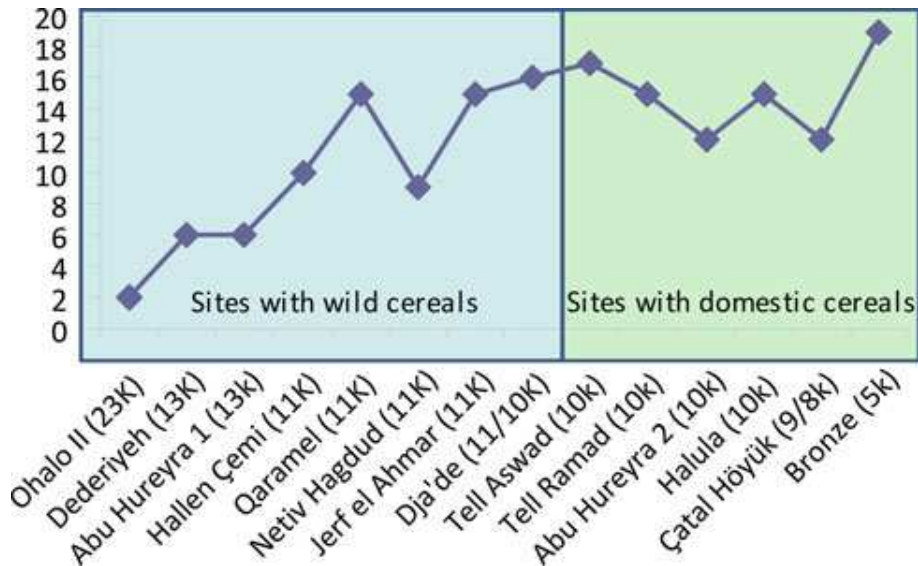
Keine Domestikation ohne Aussaat



Keine Domestikation ohne Aussaat

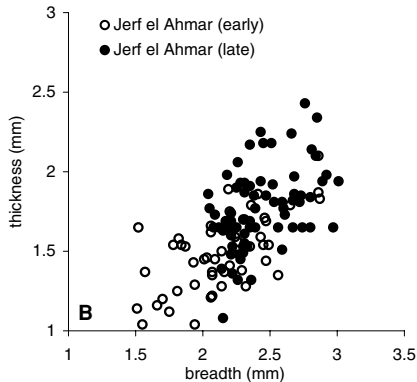
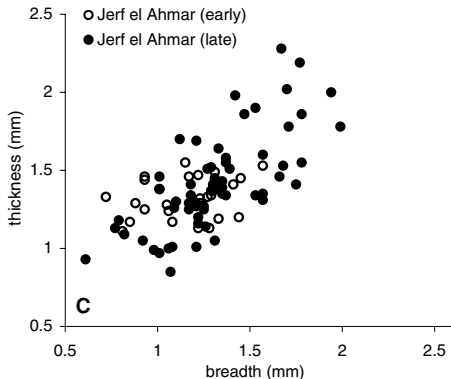


Intensive Kultivation im PPNA



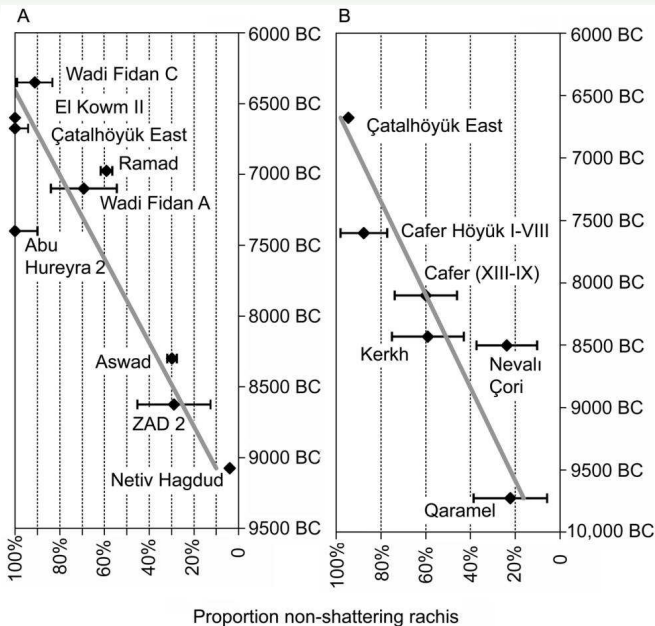


Zunahme der Korngrößen im PPNA von Jerf el-Ahmar

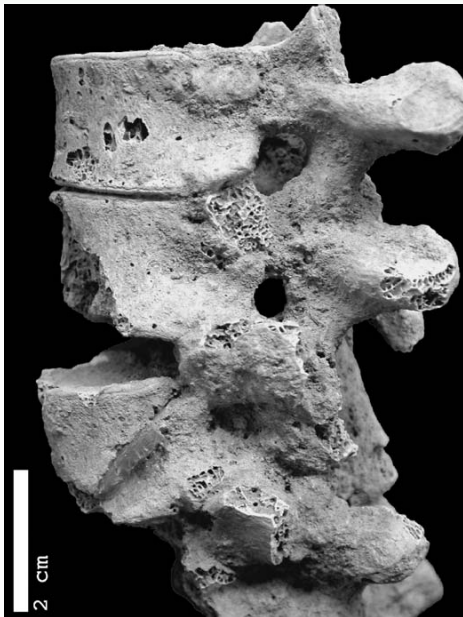




Zunahme der festen Ährchen bei Gerste und Einkorn



Kampfspuren in der Kabarahöhle, frühes Natufien

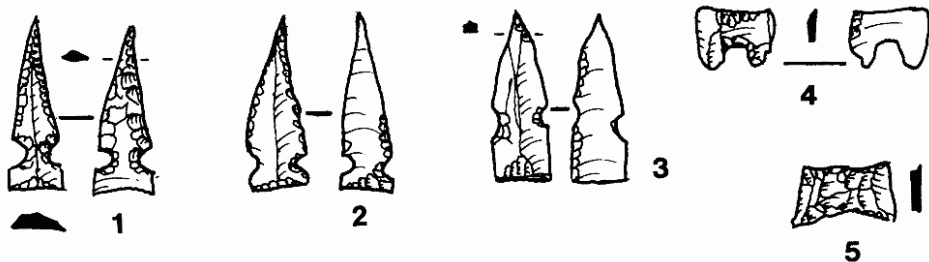




Kampfspuren in der Kabarahöhle, frühes Natufien

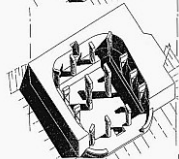
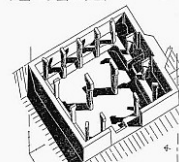
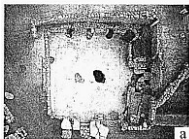
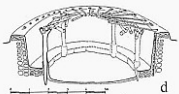
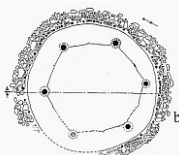


Massenhaftes Auftreten der El-Khiam-Spitzen im PPNA



Sind die El-Khiam-Spitzen Bohrer und Schaber [Go01] oder aufwendige Rohlinge [Mu14] oder handelt es sich um Waffen [Wa92]? Abb. aus [Ba91].

Kultgebäude



Göbekli Tepe, Jerf el-Ahmar und Nevalı Çori [Di12, Ko09].

Di12, Ko09



Résumé

Der erhebliche Arbeitseinsatz außerhalb der Ernte und die daraus entstehenden umkämpften Besitzrechte sowie der deutliche Wandel in Kult und Weltanschauung sprechen dafür, das PPNA kulturell als vollwertige Ackerbaugesellschaft anzusprechen.



Handout und Literatur

Vielen Dank

Das Handout und Literatur liegen auf:
www.axel.berger-odenthal.de/work/Referat/



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