

## Dryas III

Version 1.1.0

The Dryas III map is approximately representing the timeslice:

chronological frame	timeslice
Greenlandic isotope chronology	GS-1
years calibrated BC	10750-9700
year calibrated BP	12750-11700
<sup>14</sup> C years BP	11000-10000

### Release notes



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### Citation

Please cite this map as “compiled by ZBSA after Björck 1995; Brooks et al. 2011; Edwards/Brooks 2008; Hughes et al. 2016; Jakobsson et al. 2007; Lemke 2002; Lericolais 2017; Moscon et al. 2015; Pasanen et al. 2010; Patton et al. 2017; Seguinot et al. 2018; Stroeve et al. 2016; Subetto et al. 2017; Weaver et al. 2003”

### Content

The archive contains different files. A processed high resolution Geotiff in UTM 33N (1200 dpi), a processed JPG in UTM 33N (300 dpi), the raw Geotiff in WGS84, the used Source SHP File with their secondary files, the “sources map” PDF and this release notes PDF.

The processed UTM 33N Geotiff and JPG are designed for simple and direct usage, while the raw WGS84 Geotiff is for work in different map projections. The original SHP-Files are for work with alternative colour ramps or detailed insight on the used sources and specific reasons for interpolation.

### Basic Information

This is map version **1.1**. The map extend is defined from 12°W to 44°E and 43°N to 72°N. All Data were digitalised from different sources (See EPHA\_Dry3\_v11x\_sources\_map.pdf), which are listed further down in this PDF.

The modern coast line is derived from Natural Earth (<https://www.naturalearthdata.com>), large lakes were added from the “WISE Large rivers and large lakes” dataset provided by the European Environment Agency (<https://www.eea.europa.eu/data-and-maps/data/wise-large-rivers-and-large-lakes>). Finally the shaded elevation is calculated on the “GEBCO One Minute Grid” from the “GEBCO Gridded bathymetric Data” (<https://www.gebco.net/>).

The maps were produced with QGIS 3.

### Contribution

If you know or have newer or more accurate data on different parts of the maps, please feel free to contact us so we can produce and release better maps in future versions.

## Source notes

- Fennoscandian ice sheet data that is not corresponding with Stroeve et al. 2017 was removed and replaced by either water or land areas
- Coast lines were partially interpolated due to missing data (different ice sheet sizes), based on extrapolation from other sources
- Parts of the North Sea have been interpolated based on data provided by Harff et al. 2017 (See Preboreal I map for more information)
- The British coast line from Brooks et al. 2011 was assumed as the mean value of the 10000 and 13000 BP maps
- Sea level for the Adriatic sea was set to -45 m a.s.l. based on sea level curve from Moscon et al. 2015
- Sea level for the Black sea was set to -90 m a.s.l. based on sea level curve from Lericolais 2017
- The coastlines of Mezen Bay and Kanin Peninsula were interpolated to fit the coastline from Pasanen et al. 2010
- Minor adjustments were made to smoothen the coastline

## Version history

09-08-2019      release of Version 1.1.0

29-11-2018      1<sup>st</sup> release of the map

## Changes to previous version

- British Ice Sheet added after Hughes et al. 2016, Ice sheet from Clark et al. 2012 removed
- Corrected spelling ("ice sheet" instead of "ice shield") in release notes and shape files

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