**Vegetation of Eurasia from the last glacial maximum to present: pollen dataset**

Structure of the database:



1. SITE LOC (Site location table)

SiteID – Unique ID (number)

SiteName – Site name (text)

Elevation – Altitude above sea level (m) (number)

AreaOfSite – Square metres (where available) (number)

LatDD – Latitude (decimal degrees) (number)

LonDD – Longitude (decimal degrees) (number)

DataSource – Source of data (text) (see Table 12 ‘DATA SOURCE’)

DataSubmitter – Contributor of the data (where available) (text)

Pinus\_pumila – site is within contemporary distribution of P. pumila (number)

2. ENTITY

EnitityID – Unique ID (number)

EntityName – Entity name (text)

SiteID – SiteID, as in Table 1 ‘SITE’ (number)

SiteName – Site name, as in Table 1 ‘SITE’ (text)

Descriptor – Site description (where available) – see Table ‘SITE DESCRIPTOR’

LocalVeg – Description of local vegetation (where available) (text)

Sigle – original identifier from other databases (where appropriate) (text)

Name – alternative name from other databases (where approapriate) (text)

Age\_model\_ID – Unique ID – see Table ‘7 AGE MODEL TYPE’ (number)

Age\_model – Description of age model used and notes (where applicable) (text)

SampleUsage – Notes (text)

DataFormat – note of percentage data format (where available) (text)

No\_of\_rc\_dates – Number of radiocarbon dates (where available) (number)

EntLoc – Entity location (where available) (text)

RegionalVeg – Regional vegetation (where available) (text)

Physiography – Physiography (where available) (text)

LandscapeDescription – where available (text)

EntityLocationDesc – additional entity location information (where available) (text)

3. SAMPLES

SiteID – SiteID, as in Table 1 ‘SITE’ (number)

SiteName – Site name, as in Table 1 ‘SITE’ (text)

EnitityID –Entity ID, as in Table 2 ‘ENTITY’ (number)

EntityName – Entity name, as in Table 2 ‘ENTITY’ (text)

SampleID – Sample ID (non-unique) (number)

DepthCM – Depth of sample (cm) (number)

Cal yr BP – Age of sample, calibrated years before present (number)

Error – Error of age estimate (number)

AgeSlice – Age slice sample is assigned to (kyr BP) (999 = n/a)

SurfaceSample – 1 = surface sample (number)

SampleUsage – Description of sample usage (text)

4. POLLEN COUNTS

SiteID – SiteID, as in Table 1 ‘SITE’ (number)

SiteName – Site name, as in Table 1 ‘SITE’ (text)

EnitityID –Entity ID, as in Table 2 ‘ENTITY’ (number)

EntityName – Entity name, as in Table 2 ‘ENTITY’ (text)

SampleID – Sample ID (non-unique), as in Table 3 ‘SAMPLES’ (number)

DepthCM – Depth of sample (cm), as in Table 3 ‘SAMPLES’ (number)

TaxonName – Original identification taxon name (text)

TaxonClean – Taxon name checked against taxonomy list (ITIS), corrected where necessary (text)

PollenCount – Number of pollen grains counted (number)
Notes – additional notes (text)

‘TaxonName’ is the original identification assigned by the pollen analyst. However, there are regional differences in the use of taxonomy, for example, *Duschekia fruticosa*, is more commonly known as *Alnus fruticosa* outside the Former Soviet Union. Some non-pollen identifications were deleted, for example, *Dyadosporites* is a fungus and therefore of no use for pollen analyses. The dataset has been checked for consistent taxonomy, and a redundancy-free taxonomy has been produced (Table 6 – Taxonomy). The use of both TaxonName and TaxonClean allows the user to refer to the original identification.

5 TAXONCLEAN GROUP IDS

TaxonClean – Taxon name as in Table 4, ‘POLLEN COUNTS’ (text)

GroupID – Ecological group for used in percentage calculations (text) (see TAXON\_GROUPS)

6 TAXON\_TAXONCLEAN

TaxonName – Original identification taxon name (text)

TaxonClean – Taxon name checked against taxonomy list (see Table 4 ‘POLLEN COUNTS’)

7 AGE MODEL TYPE

Age Model ID – unique ID (number)

Age Model description – description of age model (text)

**ADDITIONAL TABLES**

AGE\_MODEL\_DATES

EnitityID –Entity ID, as in Table 2 ‘ENTITY’ (number)

EntityName – Entity name, as in Table 2 ‘ENTITY’ (text)

RC\_name – Laboratory code or name for model (text)

C14\_age – radiocarbon date (number)

Cal\_BP – calibrated radiocarbon date (number)

sd – 2 standard deviation (number)

Depth – Depth of sample (cm) (number)

Thickness\_sample – Thickness of dated sample (cm) (number)

Calmin – Calibrated age (minimum) (number)

Calmax – Calibrated age (maximum) (number)

Probability – Percent probability of age assignment (number)

RADIOCARBON\_DATES

EnitityID –Entity ID, as in Table 2 ‘ENTITY’ (number)

SiteName – Site name, as in Table 1 ‘SITE’ (text)

Depth\_up – upper sample depth (cm) (number)

Depth\_down – lower sample depth (cm) (number)

Thickness – thickness of sample (cm) (number)

Lab\_No – laboratory number (where known) (text)

RC\_Date – Radiocarbon date (number)

RC\_plus – Radiocarbon date error (number)

RC\_minus - Radiocarbon date error (number)

Material – Type of material dated (where known) (text)

Date\_type – Type of radiocarbon date (text)

Cal\_min – Calibrated age (minimum) (number)

Cal\_max – Calibrated age (maximum) (number)

Cal\_age\_mid – Calibrated age (middle) (number)

Probability – Percent probability of age assignment (number)

Comment1 – Comments (text)

Comment2 – Comments (text)

SITE DESCRIPTOR

Descriptor – four letter code to describe site (text) (see Table 2 ‘Entity’)

Description – Description of site (text)

TAXONOMIC GROUPS

GroupID - Ecological group for used in percentage calculations (text) (see Table 5 ‘TAXONCLEAN GROUP IDS)

GROUP\_NAME – taxon group name