# **Project**

**Title:** The Reading Palaeofire Database: an expanded global resource to document changes in fire regimes from sedimentary charcoal records.

**Dates:** 2022

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**Data contribution:** The following people who contributed data to the database, acknowledge support for data collection:

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# **Dataset**

**Title:** The Reading Palaeofire Database v1b: an expanded global resource to document changes in fire regimes from sedimentary charcoal records

**Summary description:** Wildfires have major impacts on terrestrial ecosystems, the global carboncycle, atmospheric chemistry and climate. Charcoal records from sedimentary sequences provide a way to reconstruct palaeofire regimes at different temporal and spatial scales and are a key resource to improve our understanding of the drivers of wildfires. The RPD is an expanded database of global charcoal records, accompanied by new BACON Bayesian age models based on the recalibration of radiocarbon ages using INTCAL2020 (Reimer et al., 2020). This is an updated version of the RPDv1 (RPDv1b) which updates 358 entities including the conversion of influx to count and concentration data (n=114), updates and additions to samples and dating information (n=157 and 141 entities respectively) and the production of new age models (n= 235). The database now contains 1676 charcoal records from 1480 sites worldwide. New age models have been run for 829 of the charcoal records in total.

**Publication year:** 2022

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**Rights Holder:** University of Reading, UK, David Kesner, Esmeralda Cruz-Silva, Luke Sweeney and Daniel Gallagher.

# **Terms of use**

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In order to assure traceability, any presentation, report, or publication that uses the RPD should cite the dataset (<https://doi.org/10.17864/1947.000345>) along with the following publication: Harrison et al. (in review). If using individual sites, original literature citations provided in the database should also be cited.

# **Contents**

**Abstract:** Wildfires have major impacts on terrestrial ecosystems, the global carbon cycle, atmospheric chemistry and climate. Charcoal records from sedimentary sequences provide the potential to reconstruct palaeofire regimes at different temporal and spatial scales and are a key resource to improve our understanding on the drivers of wildfires. The Global Palaeofire Working Group (GPWG) was established in 2006 to coordinate the compilation and analysis of charcoal data globally, through the construction of the Global Charcoal Database (GCD: Power et al., 2008). There have now been several iterations of the GCD (Power et al., 2008; Power et al., 2010; Daniau et al., 2012; Blarquez et al., 2014; Marlon et al., 2016), which since 2020 has been managed by the International Palaeofire Network as the Global Palaeofire Database (GPD; https://paleofire.org).

There are however a number of limitations to the use of the GCD for analyses of palaeofire regimes. Firstly, the database does not include many recently published records and needs to be updated. Secondly, there are inconsistencies among the various versions of the database, including duplicated and/or missing sites, differences in the metadata included for each site or record, and missing metadata for some sites or records. Perhaps most crucially, the age models included in the database were made at different times, using different radiocarbon calibration curves and different age-modelling methods. The disparities between the archived age models preclude a detailed comparison of changes in wildfire regimes across different regions.

The Reading Palaeofire Database (RPD) is an expanded archive of charcoal records, accompanied by new age models based on recalibration of radiocarbon ages using INTCAL2020 (Reimer et al., 2020) and using a consistent Bayesian approach for age-model construction (BACON: Blaauw. et al., 2021). The RPD v1b is an updated version of the RPD v1, with updates applied to 358 entities in total.

**Access to the RPD:** The RPD is stored as an MySQL database file (Reading Palaeofire Database (RPD) version 1b). Please check https://dev.mysql.com/downloads/ to download and install MySQL. Once MySQL Community Server and MySQL Workbench are installed, the database can be imported and visualised. A schema must be created upon import. To import the SQL file, you follow:

1. Open MySQL Workbench

2. Connect to the connection you would like to store your database in. A connection is usually created during the installation process (usually root@localhost with the password defined during the installation process)

3. Server>Data Import>Import from Self-contained file

4. Browse to the SQL file you have downloaded

5. Press New, next to the default target schema to create a new schema (name this as appropriate: e.g. RPDv1b)

6. Press Import

**File structure:** The data are stored in a relational database (MySQL), which consists of 10 linked tables, specifically "site", "entity", "sample", "date info", "unit", "entity link publication", "publication", "chronology", "age model", and "model name". These tables are also stored as 10 flat csv files, directly corresponding to the individual tables in the MySQL database, which are stored in the zip file ‘rpd csv files.zip’. As these are flat csv files, no relationships are defined here but the tables can be joined in different programming languages (R, Python, etc.) based on the foreign keys (shared column names between tables such as ID\_SITE in the site and entity tables). The different fields included in the database are summarised in Table 1. Details of the updates and amendments to entities in the RPD v1b are summarised in Table 2. For further information on the structure and data types included in the database, refer to Harrison et al. (in review).

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*Table 1. Summary of the different fields in the RPD and the tables in which they are found. Further information on the data types and the structure of the RPD are provided in Harrison et al. (in review).*

|  |  |  |
| --- | --- | --- |
| **Table** | **Field name** | **Definition** |
| Site, Entity | ID\_SITE | Unique identifier for each site  |
| Site | site\_name | Site name as given by original authors or as defined by us where there was no unique name given to the site  |
| Site | latitude | Latitude of the sampling site, given in decimal degrees, where N is positive and S is negative  |
| Site | longitude | Longitude of the sampling site in decimal degrees, where E is positive and W is negative  |
| Site | elevation | Elevation of the sampling site in metres above (+) or below (-) sea level |
| Site | site\_type | Information about type of site (e.g. lake, peatland, terrestrial) |
| Site | water\_depth | Water depth of the sampling site in metres |
| Site | flow\_type | Indication of whether there is inflow and/or outflow from the sampled site |
| Site | basin\_size\_km2 | Size of sampled site (e.g. lake or bog) in km2  |
| Site | catch\_size\_km2 | Size of hydrological catchment in km2 |
| Site | basin\_size\_class | Categorical estimate of basin size |
| Site | catch\_size\_class | Categorical estimate of basin size  |
| Entity, Sample, Date\_info, Entity link publication | ID\_ENTITY | Unique identifier for each entity |
| Entity | entity\_name | Name of entity, where an entity may be a separate core from the site or a separate type of measurement on the same core |
| Entity | latitude | Latitude of the entity, given in decimal degrees, where N is positive and S is negative |
| Entity | longitude | Longitude of the entity, given in decimal degrees, where E is positive and W is negative |
| Entity | elevation | Elevation of the sampling site, in metres above (+) or below (-) sea level |
| Entity | depositional\_context | Type of sediment sampled for charcoal  |
| Entity | measurement\_method | Method used to measure the amount of charcoal  |
| Entity | TYPE | The unit type of the measured charcoal values (e.g. concentration, influx) |
| Entity | source | Source of charcoal data  |
| Entity | core\_location | Location of the entity within the site (e.g. central core or marginal core) |
| Entity | last\_updated | Date when the entity or its linked data was last updated |
| Sample, Chronology, Age model | ID\_SAMPLE | Unique identifier for each charcoal sample  |
| Sample, Date\_info | avg\_depth | Average sampling depth, in metres (sample table). Average depth where date was measured in metres (date\_info table). |
| Sample | sample\_thickness | Sample thickness, in metres |
| Sample | charcoal\_measurement | Quantity of charcoal measured in the sample  |
|  |  |  |
| Sample | analytical\_sample\_size | Total amount of sediment sampled |
| Sample | analytical\_sample\_size\_unit | Units used for the sampling |
| Date\_info | ID\_DATE\_INFO | Unique identifier for the date record  |
| Date\_info | material\_dated | Material from which the date was obtained, if applicable |
| Date\_info | date\_type | Technique used to obtain the date measurement  |
| Date\_info | thickness | Thickness of the sample used for dating, in metres |
| Date\_info | lab\_number | Unique identifying code assigned by the dating laboratory  |
| Date\_info | age\_C14 | Uncalibrated radiocarbon age  |
| Date\_info | age\_calib | The calendar age of a date |
| Date\_info | error | Analytical or measurement error on the date |
| Date\_info | correlation\_info | Indication of basis for correlative dating (e.g. pollen, tephra or stratigraphic correlations)  |
| Date\_info | age\_used | Indicates whether date was used by the author(s) in the construction of the original age model |
| Date\_info | reason\_age\_not\_used | Indication of why a date was not used in the original age model. Blank if dates were used in original model |
| Date\_info | notes | Additional comments regarding a date record |
| Unit | ID\_UNIT | Unique identifier for the unit record |
| Unit | UNIT | Charcoal measurement unit |
| Publication, Entity link publication | ID\_PUB | Unique identifier for the publication (as in the publication table) |
| Publication | citation | The citation for the publication |
| Publication | Pub\_DOI\_URL | The digital object identifier (doi) for the publication |
| Publication | Bibentry | The publication citation in bibtex format |
| Model name, Chronology, Age model | ID\_MODEL | Unique identifier for the technique used to generate the original age model |
| Chronology | original\_est\_age | The charcoal sample age used in the original publication |
| Age model | mean | Mean age of the sample |
| Age model | median | Median age of the sample |
| Age model | UNCERT\_5 | Lower bound of the 95% confidence interval for the median age |
| Age model | UNCERT\_95 | Upper bound of the 95% confidence interval for the median age |
| Age model | UNCERT\_25 | Lower bound of the 75% confidence interval for the median age |
| Age model | UNCERT\_75 | Upper bound of the 75% confidence interval for the median age |
| Model name | model name | Age modelling technique used in the original publication and/or new (if any) age models created |

*Table 3. Summary of the changes and updates made to entities in the RPDv1b. The ‘new entity’ column denotes new entities added to the RPDv1b, the ‘Site/Entity metadata’ column denotes changes made to the metadata in the site and/or metadata tables (e.g. latitude, longitude, site\_type etc.), ‘Charcoal type’ denotes changes made to the type of charcoal data stored in the database (most notably this reflects changes of influx entities to either count or concentration values), ‘Sample metadata’ denotes changes made to the sample table (e.g. sample depths, thicknesses, labIDs etc.; Y = updates to data & metadata, A = samples added), `’Date\_info’ denotes changes made to the Date\_info table (e.g. date depths and thicknesses, C14 and calib ages etc.’ Y = updates to data and metadata, A = dates added), ‘New age model’ denotes entities where new age models have been run and included in the RPDv1b (Y = entities where new age models have been run).*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID\_SITE** | **ID\_ENTITY** | **entity\_name** | **New entity** | **Site/Entity metadata**  | **Charcoal type**  | **Samples** | **Date\_info** | **New age model** |
| 1 | 1 | Cygnet core |   |   |   | Y |  | Y |
| 8 | 13 | Bolan core |   |   |   | Y |  | Y |
| 19 | 37 | Como core |   |   |   |   | Y | Y |
| 20 | 38 | Crane core |   |   |   |   | Y |   |
| 28 | 48 | Montezuma Well core |   |   |   |   | Y | Y |
| 33 | 57 | Posy Lake core |   |   |   | Y | Y |   |
| 42 | 68 | Moose core |   |   |   | Y |  | Y |
| 59 | 88 | Lake Van core |   |   |   | Y |  |   |
| 109 | 145 | Little Molas Lake core |   | Y |   |   | A |   |
| 121 | 158 | PTA02\_4 gtr20 |   |   |   |   | A | Y |
| 171 | 220 | 7-M core |   |   |   | Y |  | Y |
| 172 | 221 | Arrow core |   |   |   | Y |  | Y |
| 173 | 222 | Rock Lake core |   |   |   | Y |  | Y |
| 175 | 224 | Portage core |   |   |   | Y |  | Y |
| 204 | 253 | Cooley Lake core |   |   | Y | Y | Y | Y |
| 205 | 254 | Rockslide core |   |   | Y | Y |  | Y |
| 214 | 265 | ELA-320 Lake core\_area |  | Y |   | Y | Y | Y |
| 220 | 271 | Northwest Lake core |   |   |   | Y |  | Y |
| 223 | 275 | Siles Lake core |   |   |   |   | Y | Y |
| 240 | 292 | Ijomba core |   |   |   | Y |  |   |
| 244 | 297 | Nicole Lake core |   |   |   | Y |  | Y |
| 245 | 300 | Scotty Lake core\_area |   |   |   | Y |  | Y |
| 246 | 302 | Sky Lake core\_area |   |   |   | Y |  | Y |
| 287 | 351 | Deming core |   | Y |   | Y | A | Y |
| 371 | 443 | Kaipo core |  | Y |   | A | A | Y |
| 374 | 446 | Lago del Greppo composite |   |   |   | Y |  |   |
| 375 | 447 | Brenda Lake core |   |   |   |   |  | Y |
| 376 | 449 | Andy Lake core |   |   |   | Y |  | Y |
| 377 | 452 | Jason core |   |   |   | Y |  | Y |
| 378 | 454 | Corral Lake core |   |   |   | Y |  | Y |
| 379 | 456 | Two Hill Lake core |   |   |   | Y |  | Y |
| 380 | 457 | OK Lake core |   |   |   | Y |  | Y |
| 382 | 460 | Lily Pond Warwick core |   |   | Y | A | A |   |
| 383 | 461 | Otter Pond core |   |   |   | Y | A |   |
| 384 | 462 | Aino Pond core |   |   |   | Y | Y, A | Y |
| 386 | 464 | Green Pond core |   |   |   | Y | Y, A |   |
| 394 | 472 | Wet Lagoon core |   | Y |   |   | A | Y |
| 402 | 481 | Chatsworth Bog core |   |   |   |   | A | Y |
| 409 | 488 | Las Pardillas core |   |   |   |   |  | Y |
| 440 | 525 | El Carrizal core |   |   |   |   | Y, A | Y |
| 444 | 529 | Kalksjon core |  | Y |   | Y |  |   |
| 447 | 532 | Canada de la Cruz core |   |   |   |   |  | Y |
| 448 | 533 | Villaverde core |   |   |   |   |  | Y |
| 460 | 546 | Gabarn core |   | Y |   |   | A | Y |
| 462 | 548 | Gador core |   |   |   |   |  | Y |
| 1691 | 555 | NAVARRE3 |   |   |   |   |  | Y |
| 470 | 556 | Ojos del Tremendal core |   |   |   |   |  | Y |
| 492 | 578 | Nussbaumersee core NBS-B |   |   |   |   | A | Y |
| 516 | 604 | Lake Hordorli\_B |   |   |   |   | Y, A | Y |
| 523 | 611 | Grey Pole Swamp core |   |   |   | A | A | Y |
| 532 | 620 | Main Lake Tower Hill core |   |   |   |   | A | Y |
| 539 | 628 | Loch Buailaval Beag core |   |   |   |   | Y |   |
| 540 | 629 | Loch a'Phuinnd core |   |   |   |   | Y |   |
| 542 | 631 | Dallican Water core |   |   | Y |   | Y | Y |
| 553 | 643 | ESK 96/99 |   |   |   |   | A |   |
| 554 | 644 | Nar core |   |   |   | Y |  |   |
| 556 | 646 | N-GUA\_macro |   |   |   |   | A | Y |
| 556 | 647 | N-GUA\_micro |   |   |   |   | A | Y |
| 566 | 657 | Kelela Swamp core |   |   |   |   | A | Y |
| 632 | 687 | Rotten Swamp\_high-res core |   |   |   |   | A | Y |
| 597 | 688 | Sundown Swamp core |   |   |   |   | Y | Y |
| 605 | 696 | Hoya del Castillo N-CAS |   |   |   |   |  | Y |
| 605 | 697 | Hoya del Castillo N-CAS macro |   |   |   |   |  | Y |
| 609 | 701 | Gorgo Basso core GL3 |   |   |   | Y | Y |   |
| 641 | 736 | Sarup So core |   | Y |   |   |  |   |
| 647 | 742 | AKIII |   |   |   |   | A | Y |
| 648 | 743 | MMI |   |   |   |   | A | Y |
| 649 | 744 | MMII |   |   |   |   | A | Y |
| 650 | 745 | MMIII |   |   |   |   | A | Y |
| 651 | 746 | AT1 |   |   |   |   | A | Y |
| 655 | 750 | Lombok Ridge Core G6-4\_B |   |   |   |   | A | Y |
| 661 | 756 | CSBM core |   |   |   |   | A | Y |
| 696 | 791 | Lower Gaylor Lake core |   |   |   | Y | Y, A | Y |
| 697 | 792 | Barrett Lake core |   |   |   | Y | Y, A | Y |
| 458 | 800 | Crevice Lake freeze core |   |   |   | Y |  |   |
| 722 | 819 | Ackgol core (AGL95A) |   |   |   |   | A | Y |
| 725 | 822 | Three Creeks core |   |   |   |   | A | Y |
| 728 | 825 | Butler Lake core |   |   |   |   | A | Y |
| 729 | 826 | Seven Lake core |   |   |   |   | A | Y |
| 745 | 842 | USL core |   |   |   | Y |  | Y |
| 749 | 846 | Glenmire core 3 |   |   | Y |   | Y | Y |
| 760 | 857 | KH1 |   | Y | Y | A | A | Y |
| 760 | 858 | MC1 | Y | Y |   | A | A | Y |
| 773 | 870 | Besos core Riera-Mora |   | Y |   |   |  | Y |
| 774 | 871 | CRH core |   | Y |   | A | A | Y |
| 775 | 872 | Cubelles core |   |   |   |   |  | Y |
| 779 | 876 | Pena da Cadela core |   |   |   |   |  | Y |
| 808 | 905 | Torveraz core 2 |   |   |   | Y |  |   |
| 841 | 938 | Asi Gonia core (AG-B) |   | Y |   |   | A | Y |
| 843 | 940 | Mare Tatos core\_oth |   | Y |   |   | A | Y |
| 862 | 960 | Spring Lake core |   | Y |   | A | A | Y |
| 867 | 965 | El Tiemblo core |   |   |   |   |  | Y |
| 869 | 967 | Esambu core |   | Y |   |   | A | Y |
| 870 | 968 | Lanzahita core |   |   |   |   | A | Y |
| 878 | 976 | LP09B |   |   |   | Y |  | Y |
| 879 | 977 | Candieira (Charco da Candieira) core |   |   |   |   | A | Y |
| 880 | 978 | Banyoles SB2 |   |   |   |   |  | Y |
| 881 | 979 | Castello Lagoon core EM |   |   |   |   |  | Y |
| 882 | 980 | Espinosa de Cerrato core |   |   |   |   |  | Y |
| 883 | 981 | Laguna de Rio Seco core |   | Y |   |   | Y, A | Y |
| 885 | 983 | Tubilla del Lago core |   |   |   |   |  | Y |
| 888 | 986 | Pena Negra core |   |   |   |   | A | Y |
| 890 | 988 | Fuente de la Leche core |   |   |   |   |  | Y |
| 891 | 989 | Arroyo de las Carcavas core |   |   |   |   |  | Y |
| 892 | 990 | Lake Sidi Ali composite core |   |   |   |   | A | Y |
| 894 | 993 | La Laguna core |   | Y |   | A | A | Y |
| 895 | 994 | Laguna Grande core\_conc |   | Y |   | A | A | Y |
| 895 | 995 | Laguna Grande core\_count |   | Y |   | A | A | Y |
| 896 | 996 | Laguna de Valleseco core\_conc |   | Y |   |   | A | Y |
| 896 | 997 | Laguna de Valleseco core\_count |   | Y | Y |   | A | Y |
| 897 | 998 | Lac a Jean-Marie Boulay core |   | Y |   |   | A | Y |
| 898 | 999 | Lac Bride core |   | Y |   |   | A | Y |
| 931 | 1344 | Crater Lake core |   | Y |   | Y |  |   |
| 474 | 1379 | Lough Mullaghlahan core |   |   |   |   | Y | Y |
| 952 | 1423 | Clayoquot Core |   |   | Y |   |  | Y |
| 1137 | 1424 | Dimple core |   |   |   | Y |  | Y |
| 1151 | 1431 | Keche Lake core |   |   |   | Y |  | Y |
| 1157 | 1433 | Larix Hollow core |   |   |   | Y |  |   |
| 1160 | 1436 | Little Isac core |   | Y |   | Y |  | Y |
| 1204 | 1440 | Mosquito Hollow core |   |   |   |   |  | Y |
| 1172 | 1444 | Olga Hollow core |   |   |   | Y |  |   |
| 1174 | 1446 | Perch Lake core |   |   |   |   |  | Y |
| 1179 | 1448 | Raven core |   |   |   |   |  | Y |
| 1187 | 1450 | Sudenpesa Hollow core |   |   |   | Y |  | Y |
| 1191 | 1451 | Tungak Lake core |   |   |   | Y |  | Y |
| 1180 | 1462 | Rentukka Hollow core |   |   |   | Y |  | Y |
| 1196 | 1463 | Vesijako Hollow core |   |   |   | Y |  |   |
| 1161 | 1470 | Loon Lake core |   |   |   | Y |  | Y |
| 475 | 1471 | Lough Nabraddan core |   |   |   |   | Y | Y |
| 1168 | 1472 | Mogielica\_micro |   |   | Y |   | Y | Y |
| 476 | 1476 | Altar Lough core |   |   |   |   | Y | Y |
| 1162 | 1479 | Luka\_micro |   |   | Y | Y |  |   |
| 1186 | 1480 | S-N 1b\_micro |   |   | Y |   | Y | Y |
| 1207 | 1490 | Aurelie core |   |   | Y | Y | Y | Y |
| 1208 | 1491 | Ayla core |   |   | Y | Y | Y | Y |
| 1211 | 1499 | Cedres core |   |   | Y |   | Y |   |
| 1212 | 1500 | Chasseur core |   |   | Y |   | Y | Y |
| 816 | 1501 | Dalmutladdo core |   |   |   | Y | Y | Y |
| 1213 | 1502 | Fur core |   | Y | Y |   | Y | Y |
| 1215 | 1504 | Geais core |   | Y | Y |   | Y |   |
| 1217 | 1508 | Jack Pine core |   |   | Y |   |  |   |
| 1219 | 1510 | KAZI |   |   |   | Y |  | Y |
| 1220 | 1511 | Labelle core |   |   | Y |   | Y | Y |
| 1222 | 1514 | Loutre core |   | Y | Y | Y |  |   |
| 1224 | 1516 | Profond core |   | Y | Y |   |  |   |
| 1225 | 1517 | Raynald core |   | Y | Y |   |  |   |
| 1226 | 1518 | Richard core |   |   | Y | Y |  |   |
| 1228 | 1521 | Steeve core |   |   | Y | Y |  |   |
| 864 | 1523 | Twin Lake core |   |   | Y | Y |  |   |
| 207 | 1526 | Black Loch I |   | Y | Y | Y |  |   |
| 207 | 1527 | Black Loch II |   | Y | Y | Y |  | Y |
| 207 | 1528 | Black Loch III |   | Y | Y | Y | A | Y |
| 207 | 1529 | Black Loch IV |   | Y | Y | Y | A | Y |
| 1231 | 1535 | Lili core |   | Y | Y | Y |  | Y |
| 1232 | 1536 | M14 core |   |   | Y | A | Y |   |
| 1233 | 1537 | M15 core |   |   | Y | A | Y |   |
| 1234 | 1538 | M16 core |   |   | Y | A | Y |   |
| 1235 | 1539 | M34 core |   |   | Y | A | Y |   |
| 1236 | 1540 | O4 core |   |   | Y | A | Y |   |
| 1237 | 1541 | O6 core |   |   | Y | A | Y |   |
| 1238 | 1542 | O14 core |   |   | Y | A | Y |   |
| 1239 | 1543 | O15 core |   |   | Y | A | Y |   |
| 1241 | 1560 | APS1 |   |   |   | Y |  | Y |
| 1244 | 1565 | Araisu lake (LVmic) |   |   | Y |   |  |   |
| 1245 | 1567 | Cepicko polje\_core |   |   | Y | Y | A | Y |
| 1135 | 1568 | Cvitova core |   |   | Y | Y |  | Y |
| 1246 | 1569 | Gorenje jezero - core 1 |   |   |   |   |  | Y |
| 1246 | 1570 | Gorenje jezero - core 2 |   |   |   |   |  | Y |
| 1248 | 1574 | Lake Lielais Svetinu (LVmic) |   |   | Y |   |  |   |
| 1129 | 1588 | B-BII\_2014\_macro\_total |   |   |   | Y |  | Y |
| 817 | 1591 | Durchenbergried core |   |   |   | Y |  | Y |
| 1256 | 1593 | Griblje GRIB1 |   |   | Y | Y |  | Y |
| 1152 | 1597 | Kendegelukol Lake Core |   |   |   | Y |  | Y |
| 1258 | 1598 | Lilaste lake (LVmac) |   |   | Y |   |  |   |
| 1259 | 1599 | Na mahu core |   |   | Y |   |  |   |
| 1260 | 1601 | Trikatas lake (LVmic) |   |   | Y |   |  |   |
| 1261 | 1604 | VALDECON |   |   |   |   |  | Y |
| 1263 | 1609 | PRD1 |   | Y |   |   | Y | Y |
| 1263 | 1610 | PRD2 |   | Y |   |   | Y, A | Y |
| 1263 | 1611 | PRD3 |   | Y |   |   | Y, A | Y |
| 1263 | 1612 | PRD4 |   | Y |   |   | A | Y |
| 1263 | 1613 | PRD5 |   | Y |   |   | Y | Y |
| 1264 | 1614 | Cha das Lameiras soil profile\_macro |   |   |   |   |  | Y |
| 1264 | 1615 | Cha das Lameiras soil profile\_micro |   |   |   |   |  | Y |
| 1265 | 1616 | El Brezosa core\_macro |   |   |   |   |  | Y |
| 1265 | 1617 | El Brezosa core\_micro |   |   |   |   |  | Y |
| 1266 | 1618 | El Perro mire core |   |   |   |   |  | Y |
| 871 | 1619 | Serranillos\_macro |   |   |   |   |  | Y |
| 871 | 1620 | Serranillos core\_micro |   |   |   |   |  | Y |
| 1267 | 1621 | Las Vinuelas core\_micro |   |   |   |   |  | Y |
| 1267 | 1622 | Las Vinuelas core\_macro |   |   |   |   |  | Y |
| 1270 | 1631 | Baza section |   |   |   |   |  | Y |
| 1273 | 1634 | Manzherok Lake core |   |   |   | Y |  | Y |
| 1274 | 1635 | Nadym frozen mire core |   |   |   | Y |  | Y |
| 1276 | 1639 | Bermu Mire core\_small |   |   | Y |   |  | Y |
| 1276 | 1640 | Bermu Mire core\_large |   |   | Y |   |  | Y |
| 1278 | 1644 | Verdeospesoa core |   |   |   | Y |  | Y |
| 1279 | 1645 | El Redondo core u125 |   |   |   |   | Y | Y |
| 1279 | 1646 | El Redondo core o125 |   |   |   |   | Y | Y |
| 1280 | 1647 | Vapsko-2 core |   |   |   | Y |  |   |
| 1282 | 1649 | PozoN\_2015 core |   |   |   |   | A | Y |
| 1283 | 1650 | Poiana Stiol core |   |   |   | Y |  |   |
| 1284 | 1651 | Lake Oltina core |   |   |   | Y |  |   |
| 1285 | 1652 | Navamuno\_S3 |   |   | Y |   | A | Y |
| 1286 | 1653 | Las Animas Mire core\_micro |   |   |   |   |  | Y |
| 1286 | 1654 | Las Animas Mire core\_macro |   |   |   |   |  | Y |
| 1287 | 1655 | Lake Stiucii core |   |   |   | Y |  |   |
| 1288 | 1656 | Hinojos Marsh\_core S1\_micro |   |   |   |   |  | Y |
| 1288 | 1657 | Hinojos Marsh\_core S1\_macro |   |   |   |   |  | Y |
| 1289 | 1658 | Aguas Frias core |   |   |   |   |  | Y |
| 1290 | 1659 | Arbarrain Mire core |   |   |   |   |  | Y |
| 1292 | 1661 | El Payo core\_50 |   | Y |   |   | Y | Y |
| 1292 | 1662 | El Payo core\_50100 |   | Y |   |   | Y | Y |
| 1292 | 1663 | El Payo core\_100150 |   | Y |   |   | Y | Y |
| 1292 | 1664 | El Payo core\_150plus |   | Y |   |   | Y | Y |
| 1303 | 1678 | Parika\_bog |   |   |   |   |  | Y |
| 1311 | 1689 | FPB core |   |   |   |   |  | Y |
| 1312 | 1690 | Manaderos core |   |   |   |   | A | Y |
| 1313 | 1691 | Marbore composite |   | Y |   |   |  | Y |
| 1314 | 1692 | PORTALET\_macro |   |   |   |   |  | Y |
| 1314 | 1693 | PORTALET\_micro |   |   |   |   |  | Y |
| 1315 | 1694 | BSM08 |   |   |   |   |  | Y |
| 1316 | 1695 | Vilamora P01-5\_100minus |   |   | Y | Y | Y | Y |
| 1316 | 1696 | Vilamora P01-5\_100plus |   |   | Y | Y | Y | Y |
| 1317 | 1697 | VdL PB2\_100minus |   |   | Y | Y |  | Y |
| 1317 | 1698 | VdL PB2\_100plus |   |   | Y | Y |  | Y |
| 1318 | 1699 | ADP 01\_06\_100minus |   |   | Y | Y |  | Y |
| 1318 | 1700 | ADP 01\_06\_100plus |   |   | Y | Y |  | Y |
| 1319 | 1701 | Abi 05\_07\_100minus |   |   | Y | Y |  | Y |
| 1319 | 1702 | Abi 05\_07\_100plus |   |   | Y | Y |  | Y |
| 1320 | 1703 | BdlC-01 |   |   |   |   |  | Y |
| 1321 | 1704 | LdlM 10-02 |   |   |   |   |  | Y |
| 1322 | 1705 | LdlMo composite |   |   |   |   |  | Y |
| 1323 | 1706 | Puerto del Pico core\_macro |   |   |   |   |  | Y |
| 1323 | 1707 | Puerto del Pico core\_micro |   |   |   |   |  | Y |
| 1324 | 1708 | Calineasa core |   |   |   | Y |  |   |
| 1326 | 1710 | Plotnikovo Mire core |   |   |   | Y |  |   |
| 1327 | 1711 | Durnoye core |   |   |   | Y |  | Y |
| 1330 | 1715 | Lake Kharinei core\_macro |   |   |   | A | A | Y |
| 1333 | 1718 | Molhasul Mare core |   |   | Y |   |  |   |
| 1334 | 1719 | Yak2A |   | Y | Y |   |  |   |
| 1334 | 1720 | Yak2B |   | Y | Y |   |  | Y |
| 1335 | 1721 | Yak3A |   | Y | Y |   |  |   |
| 1335 | 1722 | Yak3B |   | Y | Y |   |  |   |
| 1336 | 1723 | Ahlequellmoor core |   |   |   |   | Y |   |
| 1343 | 1733 | BSII |   |   |   |   |  | Y |
| 1356 | 1752 | Kuttura\_core |   |   | Y | Y |  | Y |
| 1357 | 1753 | Kevojarvi\_core |   |   |   | A |  |   |
| 1360 | 1758 | Hasseldala Core 5 |  |  |   |   |  | Y |
| 1370 | 1774 | Novoalexandrovskoye core |  |  |   | Y |  | Y |
| 1416 | 1831 | Upper Fly core\_macro |  |  |   |   |  | Y |
| 1446 | 1863 | Taul Muced core |  |  |   | Y | Y |  |
| 1447 | 1864 | Appleman Lake core |  |  |   | Y | Y |  |
| 1465 | 1882 | LC |  |  | Y |   |  |  |
| 1515 | 1934 | Jinchuan peat core |  |  |   |   | A |  |
| 1549 | 1969 | Gaoyao County peatlands Core GY1\_micro |  |  | Y | Y |  |  |
| 1549 | 1970 | Gaoyao County peatlands Core GY1\_macro |  |  | Y | Y |  |  |
| 1550 | 1971 | Gutian wetland Core GT-2\_micro |  |  | Y | Y |  |  |
| 1550 | 1972 | Gutian wetland Core GT-2\_macro |  |  | Y | Y |  |  |
| 1551 | 1973 | Lantianyan peat bog Core LTY\_micro |  |  | Y | Y |  |  |
| 1551 | 1974 | Lantianyan peat bog Core LTY\_macro |  |  | Y | Y |  |  |
| 1552 | 1975 | Shuizhuyang peat bog Core SZY\_micro |  |  | Y | Y |  |  |
| 1552 | 1976 | Shuizhuyang peat bog Core SZY\_macro |  |  | Y | Y |  |  |
| 1578 | 2005 | Chenghai Lake Core CH-1\_greater125 |  |  | Y | Y |  |  |
| 1578 | 2006 | Chenghai Lake Core CH-1\_less125 |  |  | Y | Y |  |  |
| 1600 | 2030 | Iztapa core |  |  |   |   | A | Y |
| 1601 | 2031 | Laguna Cocha Caranga core |  | Y |   |   | Y | Y |
| 1601 | 2032 | Cocha Caranga Forest core |  | Y |   |   | Y |  |
| 1601 | 2033 | Cocha Caranga Mire core |  | Y |   |   | Y | Y |
| 1606 | 2038 | Lake Acarabixi core\_micro |  |  |   |   | Y |  |
| 1606 | 2039 | Lake Acarabixi core\_macro |  |  |   |   | Y |  |
| 1607 | 2040 | Lago Rogaguado core\_micro |  | Y | Y |   |  |  |
| 1607 | 2041 | Lago Rogaguado core\_macro |  | Y | Y |   |  |  |
| 1608 | 2042 | Cerro Toledo CT core |  | Y |   |   |  | Y |
| 1608 | 2043 | Cerro Toledo CTB core |  | Y |   |   |  | Y |
| 1609 | 2044 | Rabadilla de Vaca mire core |  | Y |   |   | A | Y |
| 1611 | 2046 | Laguna Rabadilla de Vaca core |  | Y |   |   | A | Y |
| 1612 | 2047 | Laguna Zurita core |  | Y |   |   | A | Y |
| 1618 | 2054 | Dragonfly Lake Core A |  |  |   | A |  |  |
| 1628 | 2066 | Wentworth Lake core |  |  | Y | Y | Y | Y |
| 1629 | 2067 | Yahoo Lake core |  |  | Y | Y | Y | Y |
| 1634 | 2073 | Chickaree composite core |  |  |   | Y | Y |  |
| 1679 | 2125 | Grosser Treppelsee core |  | Y |   |   |  | Y |
| 1700 | 2144 | Okarito Pakihi composite |  |  |   |   | A | Y |
| 1703 | 2163 | Lake Tulane TFG |  | Y |   | Y | Y | Y |
| 1722 | 2169 | Belauer composite core |  |  | Y | Y |  |  |
| 1723 | 2170 | Dubrava MS15 |  |  | Y | Y |  |  |
| 1725 | 2172 | Gasak II profile |  |  | Y |   |  |  |
| 1726 | 2173 | Golebiewo I core |  |  | Y |   |  |  |
| 1727 | 2174 | Grosser Krebssee composite |  |  | Y |   |  |  |
| 1728 | 2175 | Iezerul Sadovei core |  | Y | Y |   |  |  |
| 1730 | 2177 | Profile B\_2007 |  |  | Y |   |  |  |
| 1734 | 2181 | Ruskowiejskie core |  |  | Y |   |  |  |
| 1736 | 2183 | Miticka slatina core |  | Y | Y | Y |  | Y |
| 1738 | 2185 | PM2 |  | Y | Y | Y |  |  |
| 1738 | 2186 | PM1 |  | Y | Y | Y |  |  |
| 1740 | 2188 | Suminko core |  |  | Y |   |  |  |
| 1741 | 2189 | Litzelsee core |  |  | Y |   |  |  |
| 1746 | 2194 | Prasilske composite |  |  | Y |   |  |  |
| 1750 | 2199 | Cepkeliai core |  | Y | Y | Y |  |  |
| 1753 | 2202 | Juodonys core |  |  | Y | Y |  |  |
| 1766 | 2216 | Lac Suprin core over 10um |  | Y |   |   | A | Y |
| 1766 | 2217 | Lac Suprin core |  | Y |   |   | A | Y |
| 1785 | 2238 | Deuce Lake core |  | Y | Y |   |  |  |
| 1786 | 2239 | Dune Lake Core A |  | Y | Y |   |  |  |
| 1801 | 2254 | Tajga core |  |  | Y | Y |  |  |
| 1806 | 2261 | Dalane core |  |  |   |   | Y |  |
| 1807 | 2262 | Holebudalen core |  |  |   |   | Y |  |
| 1808 | 2263 | Lille Kjelavatn core |  |  |   |   | Y |  |
| 1811 | 2266 | Litlvatnet core |  |  |   | Y |  | Y |
| 1812 | 2267 | Myrvatnet core |  |  |   | Y, A |  | Y |
| 1813 | 2268 | Gammelheimenvatnet core |  |  |   | Y, A |  | Y |
| 1815 | 2270 | Grauthelleren core |  |  |   |   |  | Y |
| 1816 | 2271 | Kinnshaugen core |  |  |   | A |  | Y |
| 1838 | 2293 | Nataloup core |  |  |   |   |  | Y |
| 1874 | 2330 | Laguna de Chochos core |  |  |   | Y |  |  |
| 1875 | 2331 | Laguna Las Margaritas core |  |  |   | Y | Y |  |
| 1878 | 2334 | Laguna Pallcacocha core |  |  |   | Y | Y |  |
| 1888 | 2345 | Lake Nicaragua core LC-4 |  |  |   |   |  | Y |
| 1890 | 2347 | Lake Santa Rosa core |  |  |   | Y | Y, A | Y |
| 1918 | 2376 | Colonia basin composite core |  |  |   |   | A | Y |
| 1923 | 2382 | Bazu bog (LVmac) |  |  |   |   | Y |  |
| 1924 | 2383 | Lielais Vipedis (LVmac) |  |  |   | Y |  |  |
| 1925 | 2384 | Lake Pikku Harkajarvi (FImic) |  |  | Y | Y |  |  |
| 1926 | 2385 | Lake Rosalia (Fimic) |  |  | Y | Y |  |  |
| 1943 | 2408 | Lake Huila micro |  |  |   | Y |  | Y |
| 1943 | 2409 | Lake Huila macro |  |  |   |   |  | Y |
| 1944 | 2410 | Vinillos micro |  |  |   | Y |  | Y |
| 1944 | 2411 | Vinillos macro |  |  |   | Y |  | Y |
| 1945 | 2412 | Lake Kumpaka core |  |  |   |   |  | Y |
| 1946 | 2413 | CV micro |  |  |   |   |  | Y |
| 1946 | 2414 | CV macro |  |  |   |   |  | Y |
| 1947 | 2415 | Lake Aljojuca core |  |  |   |   |  | Y |
| 1948 | 2416 | AN core |  |  |   |   |  | Y |
| 1949 | 2417 | ANT micro |  |  |   |   |  | Y |
| 1949 | 2418 | ANT macro |  |  |   |   |  | Y |
| 1950 | 2419 | Breclav core |  | Y | Y |   |  |  |
| 1951 | 2420 | Holbicky core |  |  | Y |   |  |  |
| 1952 | 2421 | Hovorany core |  |  | Y |   |  |  |
| 1953 | 2422 | Hute pod Smrkem core |  |  | Y |   |  |  |
| 1954 | 2423 | Lanzhot core |  |  | Y |   |  |  |
| 1957 | 2426 | Rojkov core |  |  | Y |   |  |  |
| 1970 | 2443 | Skrzynka S1 |  | Y | Y |   |  |  |
| 1978 | 2451 | Vrbka core |  |  |   | Y |  |  |
| 1980 | 2453 | Rynholec core |  |  |   | Y |  |  |
| 1986 | 2459 | LdFate core |  |  |   | Y |  |  |
| 1989 | 2462 | DESVERNE core |  |  |   | Y |  |  |
| 1992 | 2465 | Suchar IV core |  |  | Y |   |  |  |
| 1251 | 2473 | Pine hollow (RUmac) |  |  | Y |   |  |  |
| 1254 | 2474 | Polttiais hollow (RUneur) |  |  | Y |   |  |  |
| 1249 | 2475 | Naava hollow (FIneur) |  |  | Y |   |  |  |
| 1257 | 2476 | Kammekka hollow (FIneur) |  |  | Y |   |  |  |
| 2002 | 2481 | Sandy\_Pit\_macro |  | Y | Y | A | A | Y |
| 2002 | 2482 | Sandy\_Pit\_micro |  | Y | Y | A | A | Y |
| 2003 | 2483 | Ocate core | Y |  |   | A | A | Y |
| 2004 | 2484 | BUC | Y |  |   | A | A | Y |
| 92 | 2485 | Alamo Bog core\_125 |  |  | Y | A | A | Y |
| 92 | 2486 | Alamo Bog core\_total | Y |  |   | A | A | Y |
| **Total** |  | **358** | **4** | **75** | **114** | **157** | **141** | **235** |