ARC-Lake – Data Product Description

Version
v1.0   22nd September 2010   1st release
v1.1   22nd March 2011   2nd release
v1.1.1 31st March 2011   Update to some 2nd release data products
v1.1.2 15th April 2011   Update to some 2nd release data products
v3.0   17th January 2014   v3.0 data products

Release Notes
v1.0   First official release of ARC-Lake lake surface temperature (LSWT) and lake ice concentration (LIC) products.

Draft Data Product Description (22/09/2010).

v1.1   Second release of ARC-Lake lake surface water temperature (LSWT) and lake ice concentration (LIC) products.
1. Salinity dependent emissivity.
2. Modification of ice-detection algorithm to reduce classification of clouds as ice.
3. New methods of handling ice and periods of no observations in reconstructions.

v1.1.1 Update to v1.1.
1. Change in methodology for deriving averaged data products based on observations. Details of the new method are given in the Averaging Methods section.
2. Correction to NLSWT and NICE fields in global spatially-resolved averaged products.
3. Correction to LAKEID field in global lake-mean averaged products.

v1.1.2 Update to v1.1.
1. Change in methodology for deriving averaged data products based on observations. Pre-filtering to remove observations with high χ^2 (as applied in derivation of reconstructions).
2. Removal of redundant variables and attributes from per-lake data products.

v3.0   Release of ARC-Lake v3.0 data products.
1. Expansion of dataset to include smaller lakes and reservoirs.
2. Introduction of water detection algorithm.
3. New land/water mask products.
4. Change of format of global spatially-resolved data products.
5. Changes to some variable names.
6. Changes to file contents.
7. Latitude ordering changed from [90,-90] to [-90,90].

Documentation History
22/09/10   Document created
24/09/10   Correction to table of lakes (table 7)
22/03/11   Major revision to accommodate significant differences between v1.0 and v1.1 data products and additional v1.1 data products. Please see

31/03/11   Averaging Methods section updated to describe v1.1.1 products
            Description of NICE data field updated.
15/04/11   Updated product descriptions to reflect removal of redundant variables and attributes.
17/01/14   Major revision to accommodate significant differences between v2.0 (and earlier) data
            products and v3.0 data products.

Overview

This document describes the data products released through the ARC-Lake project, funded by the European Space Agency.

A number of different types of data product are available, from gridded observations on a lake-by-lake basis to global climatology. Data products derived from spatially complete reconstructions are available alongside those derived directly from the ARC-Lake observations. A summary of the possible variants is given in Table 1. Note that not all possible combinations of these variants are available:

	Variants			
Source	Observations		Reconstructions	
Coverage	Per-lake		Global	
Time	Day		Night	
Spatial Resolution	0.05° grid		Lake-mean	
Temporal Averaging Type	Climatology		Time-series	
Temporal Averaging Period	Seasonal	Monthly	Twice-monthly	Daily

Table 1. Overview of the types of data product available through ARC-Lake.

ARC-Lake v3.0 data products include both lakes and reservoirs. For simplicity, the terms "lake" and "target" are used to refer to all types of water body. The structure and contents of these data products are described in detail in the following pages.

Contents

File Naming Convention

There are four possible file name formats, each of which shares a common naming convention across the first 16 characters. The four filename formats and the types of files to which they apply are given in Table 2.The meanings of the file name components are outlined in Table 3.

File Name Format	Product Types
AAAABBBB_CCDDDEF.nc	Unaveraged per-lake observations and reconstructions
AAAABBBB_CCDDDEF_GGGGHHII.nc	Unaveraged daily global observations
AAAABBBB_CCDDDEF_JJKKKLL.nc	All per-lake averaged products (e.g. climatology) and lake-mean global products
AAAABBBB_CCDDDEF_JJKKKLL_MMNN_OOPP.nc	Spatially resolved global climatology products

Table 2. ARC-Lake file name formats and summary of associated file types.

Component	Meaning	Possible Values	
AAAA	ARC-Lake ID	ALID	
BBBB	ARC-Lake ID value	0001-1820	Lake ID
		9999	All lakes
CC	Coverage	PL	Per-lake
		DG	Daily-global
		CG	Climatology-global
DD	Source	OBS	Observations
		REC	Reconstructions
E	ATSR ID	1	ATSR1
		2	ATSR2
		3	AATSR
		9	Merged ATSR
F	Time	D	Day
		N	Night
GGGG	Year	1991-2012	
HH	Month	01-12	
II	Day	01-31	
JJ	Temporal averaging type	CA	Climatology-annual
		TS	Time-series
KKK	Temporal averaging period	004	Seasonal
		012	Monthly
		024	Twice-monthly
		366	Daily
LL	Spatial resolution	SR	Spatially-resolved (0.05° grid)
		LM	Lake-mean
MM	Start day of annual climatology time period	01-31	
NN	Start month of annual climatology time period	01-12	
OO	End day of annual climatology time period	01-31	
PP	End month of annual climatology time period	01-12	

Table 3. Description of components of ARC-Lake product file names.

Summary of File Types

Averaging

Unaveraged
Data products containing observations or reconstructions on daily time-steps (i.e. no temporal or spatial averaging has been applied (beyond the initial spatial averaging to the $0.05^{°}$ grid).

Averaged

Data products derived from the unaveraged files. Averaging is performed in time, creating time-series and climatology over various averaging intervals. Averaging is also performed spatially, to create lake-mean data products.

Source

Observations
Data products derived directly from ARC-Lake estimates of LSWT and LIC.

Reconstructions

Data products derived from spatially and temporally complete reconstructions of the ARC-Lake LSWT product. Spatially complete reconstructions are derived from observations using EOF-based techniques, using the software DINEOF (Data INterpolating Empirical Orthogonal Functions) described by Alvera-Azcárate *et al*, 2005. Details of the methodology used to derive these reconstructions are given in MacCallum and Merchant (2013).

Coverage

Per-lake
Lake specific data files. Data is stored on a fixed grid (for spatially resolved products) covering only the local area of the lake.

Global
Data files containing all lakes, globally. Spatially resolved data are stored on a fixed $0.05^{°}$ grid, covering the full globe. Lake-mean data are stored in a single array for all lakes along with associated lake ID.

Spatial Resolution

Spatially-Resolved
Data are stored on a $0.05^{°}$ grid with associated longitude and latitude values.

Lake-Mean
Data are stored as a single value (spatially) for each lake with associated longitude and latitude values for the nominal lake centre.

Temporal Averaging Type

None
No temporal averaging applied.

Climatology
Averaging applied over a set time interval over all years to create an annual climatology (e.g. 12 monthly averages)

Time-series
Averaging applied over a set time interval to create a time-series of averaged data (e.g. 203 monthly averages covering the years 1995-2012 for the ATSR2/AATSR time-period).

Temporal Averaging Period

Seasonal
Averaging period covers three-month periods: January-February-March (JAS), April-May-June (AMJ), July-August-September (JAS), October-November-December (OND).

Monthly
Averaging period covers calendar months.

Twice-Monthly
Averaging performed over fixed half-month periods.

Daily
Daily lake-mean averages.

File Contents

Colour Key

Global attributes
Dimensions
Variables on grid points – Observations and reconstructions
Variables on grid points – Observation-based data only
Variables on grid points – Reconstruction-based data only
Ancillary variables – Observations and reconstructions
Ancillary variables - Observation-based data only
Ancillary variables - Reconstruction-based data only

Table 4. Colour scheme used to highlight which variables are shared across observation and reconstruction-based products and which variables are unique to one product type.

Unaveraged – Per-Lake – Observations & Reconstructions

File Names

Basic File Name Format	Example
AAAABBBB_CCDDDEF.nc	ALID0001_PLOBS3D.nc

Table 5. File naming convention for unaveraged per-lake data products.

Dimensions

Dimension Name	Description
LON	Longitude.
LAT	Latitude
TIME	Time
NV	For ancillary data describing global grid

Table 6. Dimensions in unaveraged per-lake data products.

Variables

Variable Name	Type	Description [units]	Contents / Array Dimensions
LON	FLOAT	Longitude at centre of grid cell. [degrees_east]	[LON]
LAT	FLOAT	Latitude at centre of grid cell. [degrees_north]	[LAT]
TIME	FLOAT	Reference time for data: day of observation [days since 00:00:00 01/01/1970]	[TIME]
LSWT	FLOAT	Lake surface water temperature [K]	[LON,LAT, TIME]
LAKEID	INT	Lake ID (>0 = valid lake ID) Corresponds to maximum target area mask.	[LON,LAT, TIME]
MASK_MIN	BYTE	Corresponds to annual minimum target area masks (0 = Not water, 1 = water)	[LON,LAT, TIME]
NCLOUD	INT	Number of cloudy pixels.	[LON,LAT, TIME]

NICE	INT	Number of ice pixels	[LON,LAT, TIME]
NLSWT	INT	Number of clear lake pixels. (i.e. Not cloud or ice covered)	[LON,LAT, TIME]
ERR_LSWT	FLOAT	Uncertainty estimate for lake surface temperature [K]	[LON,LAT, TIME]
CHI2	FLOAT	Chi-squared (goodness of fit measure for OE retrieval)	[LON,LAT, TIME]
OBSERVATION_TIME	LONG	Observation time in seconds since 00:00 GMT [s]	[LON,LAT, TIME]
LON_BNDS	FLOAT	Longitudes at (western and eastern) edges of grid cells. [degrees_east]	[NV, LON]
LAT_BNDS	FLOAT	Latitudes at (southern and northern) edges of grid cells. [degrees_north]	[NV, LON]
NDAYS	INT	Number of days with data	1
LONRANGE	FLOAT	Longitudes (at cell centres) of lake area bounds on full global grid at 0.05° resolution [degrees_east]	[NV]
LATRANGE	FLOAT	Latitudes (at cell centres) of lake area bounds on full global grid at 0.05° resolution [degrees_north]	[NV]
LONGRIDBOUNDS	INT	Indices of lake area longitude bounds on full global grid at 0.05° resolution - [xmin, xmax]	[NV]
LATGRIDBOUNDS	INT	Indices of lake area latitude bounds on full global grid at 0.05° resolution - [ymin, ymax]	[NV]
GLOBAL_LON_ZERO	FLOAT	Longitude at centre of westernmost cell of global grid (corresponding to lonindex=0) [degrees_east]	-179.975
GLOBAL_LAT_ZERO	FLOAT	Latitude at centre of southernmost cell of global grid (corresponding to latindex=0)	-89.975
GLOBAL_RESOLUTION	FLOAT	Resolution of grid cells	0.05
CROSS_ERR	FLOAT	Cross-validation error from DINEOF [Kelvin]	e.g. 0.75
NEV	INT	Number of EOFs used in the reconstruction	e.g. 8
FLAG_TIMESERIES	INT	Flag to indicate of LSWT	e.g. 0

		reconstruction is based on time-series or climatology 0=Time-series, 1=Climatology, 2=Invalid reconstruction	
FLAG_SOURCE	INT	Flag to indicate source of LSWT reconstruction at each time step. 0=Observation 1=FLake 2=Excluded observation 4=Interpolated	[TIME]
TITLE	STRING	Data product type	ARCLake – Per-Lake
SOURCE	STRING	Source of data	ARCLake
VERSION	STRING	ARCLake version number	3.0
CREATION_DATE	STRING	Date of creation (YYYYMMDD)	20131024
ARCLAKE_NAME	STRING	Lake name	CASPIAN
ARCLAKE_ID	STRING	Lake ID	1
DAY_NIGHT	STRING	String to indicate day-time or night-time retrievals	Day

Table 7. Overview of variables and global attributes present in the unaveraged per-lake data products.

Unaveraged – Global – Observations Only

File Names

Basic File Name Format	Example
AAAABBBB_CCDDDEF_GGGGHHII.nc	ALID9999_DGOBS3D_20060101.nc

Table 8. File naming convention for unaveraged global data products.

Dimensions

Dimension Name	Description
LON	Longitude.
LAT	Latitude
TIME	Time

Table 9. Dimensions in unaveraged global data products.

Variables

Variable Name	Type	Description [units]	Contents / Array Dimensions
LON	FLOAT	Longitude at centre of grid cell. [degrees_east]	[LON]
LAT	FLOAT	Latitude at centre of grid cell. [degrees_north]	[LAT]
TIME	FLOAT	Reference time for data: day of observation [days since 00:00:00 01/01/1970]	[TIME]
LSWT	FLOAT	Lake surface water temperature [K]	[LON, LAT, TIME]

NCLOUD	INT	Number of cloudy pixels.	[LON, LAT, TIME]
NICE	INT	Number of ice pixels	[LON, LAT, TIME]
NLSWT	INT	Number of clear lake pixels. (i.e. Not cloud or ice covered)	[LON, LAT, TIME]
ERR_LSWT	FLOAT	Uncertainty estimate for lake surface temperature [K]	[LON, LAT, TIME]
CHI2	FLOAT	Chi-squared (goodness of fit measure for OE retrieval)	[LON, LAT, TIME]
OBSERVATION_TIME	LONG	Observation time in seconds since 00:00 GMT [s]	[LON, LAT, TIME]
LON_BNDS	FLOAT	Longitudes at (western and eastern) edges of grid cells. [degrees_east]	[NV, LON]
LAT_BNDS	FLOAT	Latitudes at (southern and northern) edges of grid cells. [degrees_north]	[NV, LON]
TIME_BNDS	INT	Time bounds of data corresponding to TIME dimension.	[NV,TIME]
TITLE	STRING	Data product type	ARCLake – Daily Global
SOURCE	STRING	Source of data	ARCLake
VERSION	STRING	ARCLake version number	3.0
CREATION_DATE	STRING	Date of creation (YYYYMMDD)	20131024
DATE	STRING	Date of observation (YYYYMMDD)	20060101
DAY_NIGHT	STRING	String to indicate day-time or night-time retrievals	Day

Table 10. Overview of variables and global attributes present in the unaveraged global data products.

Averaged – Per-Lake

File Names

Basic File Name Format	Example
AAAABBBB_CCDDDEF_JJKKKLL.nc	ALID0001_PLOBS3D_CA012SR.nc

Table 11. File naming convention for averaged per-lake data products.

Dimensions

Dimension Name	Description
LON	Longitude.
LAT	Latitude
TIME	Time
NV	For ancillary data describing start and end times of averaging period and for ancillary data describing global grid.
ATSR	For ancillary data describing which ATSR instruments have been used.

Table 12. Dimensions in averaged per-lake data products.

Variables

Variable Name	Type	Description [units]	Contents / Array Dimensions
LON	FLOAT	Longitude at centre of grid cell. [degrees_east]	[LON]
LAT	FLOAT	Latitude at centre of grid cell. [degrees_north]	[LAT]
TIME	FLOAT	Reference time for data: day of observation [days since 00:00:00 01/01/1970]	[TIME]
ATSR	INT	ATSR instrument number. 1=ATSR1 2=ATSR2 3=AATSR	[ATSR]
LSWT	FLOAT	Lake surface water temperature [K]	[LON,LAT, TIME]
VAR_LSWT	FLOAT	Variance of LSWT over averaging period/area	[LON,LAT, TIME]
LAKEID	INT	Lake ID (>0 = valid lake ID)	[LON,LAT, TIME]
MASK_MIN	BYTE	Corresponds to annual minimum target area masks (0 = Not water, 1 = water)	[LON,LAT, TIME]
NCLOUD	INT	Number of cloudy pixels.	[LON,LAT, TIME]
NICE	INT	Number of ice pixels	[LON,LAT, TIME]
NLSWT	INT	Number of clear lake pixels. (i.e. Not cloud or ice covered)	[LON,LAT, TIME]
ERR_LSWT	FLOAT	Uncertainty estimate for lake surface temperature [K]	[LON,LAT, TIME]
CHI2	FLOAT	Chi-squared (goodness of fit measure for OE retrieval)	[LON,LAT, TIME]
OBSERVATION_TIME	LONG	Observation time in seconds since 00:00 GMT [s]	[LON,LAT, TIME]
LON_BNDS	FLOAT	Longitudes at (western and eastern) edges of grid cells. [degrees_east]	[NV, LON]
LAT_BNDS	FLOAT	Latitudes at (southern and northern) edges of grid cells. [degrees_north]	[NV, LON]
LONRANGE	FLOAT	Longitudes (at cell centres) of lake area bounds on full global grid at 0.05° resolution [degrees_east]	[NV]

LATRANGE	FLOAT	Latitudes (at cell centres) of lake area bounds on full global grid at 0.05° resolution [degrees_north]	[NV]
LONGRIDBOUNDS	INT	Indices of lake area longitude bounds on full global grid at 0.05° resolution - [xmin, xmax]	[NV]
LATGRIDBOUNDS	INT	Indices of lake area latitude bounds on full global grid at 0.05° resolution - [ymin, ymax]	[NV]
GLOBAL_LON_ZERO	FLOAT	Longitude at centre of westernmost cell of global grid (corresponding to lonindex=0) [degrees_east]	-179.975
GLOBAL_LAT_ZERO	FLOAT	Latitude at centre of southernmost cell of global grid (corresponding to latindex=0)	-89.975
GLOBAL_RESOLUTION	FLOAT	Resolution of grid cells	0.05
CLIMATOLOGY_BOUNDS	FLOAT	Start and end times of averaging period.	[NV,TIME]
NDAYS_SAT	INT	Number of days with valid satellite observations in averaging period.	[TIME]
FLAG_TIMESERIES	INT	Flag to indicate if reconstruction is based on time-series, climatology, or if reconstruction failed. 0=Time-series 1=Climatology 2=Failed	[ATSR]
NDAYS_FLAKE	INT	Number of days where FLake data is used in the reconstruction.	[TIME]
FLAG_SOURCE†	INT	Flag to indicate source of data in daily time-series reconstructions	[TIME]
TITLE	STRING	Data product type	e.g. ARCLake – Spatially-resolved Monthly Climatology from Day-time ATSR2/AATSR Observations
SOURCE	STRING	Source of data	ARCLake – CDO processing
VERSION	STRING	ARCLake version number	3.0
CREATION_DATE	STRING	Date of creation (YYYYMMDD)	20131024

ARCLAKE_NAME	STRING	Lake name	CASPIAN
ARCLAKE_ID	STRING	Lake ID	1
DAY_NIGHT	STRING	String to indicate day-time or night-time retrievals	Day

Table 13. Overview of variables and global attributes present in the averaged per-lake data products. †Only present in daily averaged lake-mean files, where NDAYS_SAT and NDAYS_FLAKE are not present.

Averaged – Global – Spatially-Resolved

File Names

Basic File Name Format	Example
AAAABBBB_CCDDDEF_ JJKKKLL_MMNN_OOPP.nc	ALID9999_PLOBS9D_ CA012SR_0101_3101.nc

Table 14. File naming convention for averaged global spatially-resolved data products.

Dimensions

Dimension Name	Description
LON	Longitude.
LAT	Latitude
TIME	Time
NV	For ancillary data describing start and end times of averaging period and for ancillary data describing global grid.

Table 15. Dimensions in averaged global spatially-resolved data products.

Variables

Variable Name	Type	Description [units]	Contents / Array Dimensions
LON	FLOAT	Longitude at centre of grid cell. [degrees_east]	[LON]
LAT	FLOAT	Latitude at centre of grid cell. [degrees_north]	[LAT]
TIME	FLOAT	Reference time for data: day of observation [days since 00:00:00 01/01/1970]	[TIME]
LSWT	FLOAT	Lake surface water temperature [K]	[LON,LAT, TIME]
VAR_LSWT	FLOAT	Variance of LSWT over averaging period/area	[LON,LAT, TIME]
FLAG_TIMESERIES	BYTE	Flag to indicate combination of ATSRs used and type of data used for each ATSR (time series, climatology, none).	[LON,LAT,TIME]
NCLOUD	BYTE	Number of cloudy pixels.	[LON,LAT, TIME]
NICE	BYTE	Number of ice pixels	[LON,LAT, TIME]
NLSWT	BYTE	Number of clear lake pixels. (i.e. Not cloud or ice covered)	[LON,LAT, TIME]
ERR_LSWT	FLOAT	Uncertainty estimate for	[LON,LAT, TIME]

		lake surface temperature [K]	
CHI2	FLOAT	Chi-squared (goodness of fit measure for OE retrieval)	[LON,LAT, TIME]
OBSERVATION_TIME	LONG	Observation time in seconds since 00:00 GMT [s]	[LON,LAT, TIME]
LON_BNDS	FLOAT	Longitudes at (western and eastern) edges of grid cells. [degrees_east]	[NV, LON]
LAT_BNDS	FLOAT	Latitudes at (southern and northern) edges of grid cells. [degrees_north]	[NV, LON]
CLIMATOLOGY_BOUNDS	FLOAT	Start and end times of averaging period.	[NV,TIME]
GLOBAL_LON_ZERO	FLOAT	Longitude at centre of westernmost cell of global grid (corresponding to lonindex=0) [degrees_east]	-179.975
GLOBAL_LAT_ZERO	FLOAT	Latitude at centre of southernmost cell of global grid (corresponding to latindex=0)	-89.975
GLOBAL_RESOLUTION	FLOAT	Resolution of grid cells	0.05
NDAYS_SAT	INT	Number of days with valid satellite observations in averaging period.	[TIME]
NDAYS_FLAKE	INT	Number of days where FLake data is used in the reconstruction.	[TIME]
TITLE	STRING	Data product type	e.g. ARCLake – Spatially-resolved Monthly Climatology from Day-time ATSR2/AATSR Observations
SOURCE	STRING	Source of data	ARCLake
VERSION	STRING	ARCLake version number	3.0
CREATION_DATE	STRING	Date of creation (YYYYMMDD)	20131024
DAY_NIGHT	STRING	String to indicate day-time or night-time retrievals	Day

Table 16. Overview of variables and global attributes present in the averaged global spatially-resolved data products.

Averaged – Global – Lake-Mean

File Names

Basic File Name Format	Example
AAAABBBB_CCDDDEF_JJKKKLL.nc	ALID9999_PLOBS9D_CA012LM.nc

Table 17. File naming convention for averaged global lake-mean data products.

Dimensions

Dimension Name	Description
TIME	Time
LAKES	Lake IDs
NV	For ancillary data describing start and end times of averaging period.
ATSR	For ancillary data describing which ATSR instruments have been used.

Table 18. Dimensions in averaged global lake-mean data products.

Variables

Variable Name	Type	Description [units]	Contents / Array Dimensions
TIME	FLOAT	Reference time for data: day of observation [days since 00:00:00 01/01/1970]	[TIME]
LAKEID	INT	Lake ID	[LAKES]
ATSR	INT	ATSR instrument number. 1=ATSR1 2=ATSR2 3=AATSR	[ATSR]
LSWT	FLOAT	Lake surface water temperature [K]	[LAKES, TIME]
VAR_LSWT	FLOAT	Variance of LSWT over averaging period/area	[LAKES, TIME]
NDAYS_SAT	INT	Number of days with valid satellite observations in averaging period.	[LAKES,TIME]
NCLOUD	INT	Number of cloudy pixels.	[LAKES, TIME]
NICE	INT	Number of ice pixels	[LAKES, TIME]
NLSWT	INT	Number of clear lake pixels. (i.e. Not cloud or ice covered)	[LAKES, TIME]
ERR_LSWT	FLOAT	Uncertainty estimate for lake surface temperature [K]	[LAKES, TIME]
CHI2	FLOAT	Chi-squared (goodness of fit measure for OE retrieval)	[LAKES, TIME]
OBSERVATION_TIME	LONG	Observation time in seconds since 00:00 GMT [s]	[LAKES, TIME]
NDAYS_FLAKE	INT	Number of days where FLake data is used in the reconstruction.	[LAKES,TIME]
CLIMATOLOGY_BOUNDS	FLOAT	Start and end times of averaging period.	[NV,TIME]

FLAG_TIMESERIES	BYTE	Flag to indicate combination of ATSRs used and type of data used for each ATSR (time series, climatology, none).	[ATSR,LAKES]
TITLE	STRING	Data product type	e.g. ARCLake – Lake-mean Monthly Climatology from Day-time ATSR2/AATSR Observations
SOURCE	STRING	Source of data	ARCLake
VERSION	STRING	ARCLake version number	3.0
CREATION_DATE	STRING	Date of creation (YYYYMMDD)	20131024
DAY_NIGHT	STRING	String to indicate day-time or night-time retrievals	Day

Table 19. Overview of variables and global attributes present in the averaged global lake-mean data products.

Detailed Data Description

Overview

The following section describes the contents of the data fields in more detail. These descriptions apply to all products.

LON

Spatially-Resolved

LON contains the longitude values of the cells on the 0.05° global grid on which the data is stored.

In the per-lake products, LON contains the longitude values on the 0.05° grid for the local area of the lake only.

In all products the longitude values in LON, represent the cell centre.

Lake-Mean

In all lake-mean products, LON contains the longitude values at the nominal centre of the lake. Note, it is possible for this value to be over land (for lakes with highly non-uniform shapes).

LAT

Spatially-Resolved

LAT contains the latitude values of the cells on the 0.05° global grid on which the data is stored.

In the per-lake products, LAT contains the latitude values on the 0.05° grid for the local area of the lake only.

In all products the latitude values in LAT, represent the cell centre.

Lake-Mean

In all lake-mean products, LAT contains the latitude values at the nominal centre of the lake. Note, it is possible for this value to be over land (for lakes with highly non-uniform shapes).

TIME

TIME is the reference time of the data fields (e.g. LSWT). For unaveraged products, TIME represents the day of observation (or reconstruction). For averaged products, TIME represents the centre point of the averaging period. In all cases, TIME is defined as days since 00:00:00 on 1st January 1970.

ATSR

ATSR contains the reference numbers for the ATSR instruments: 1=ATSR1, 2=ATSR2, 3=AATSR. For use in referencing FLAG_TIMESERIES.

LAKEID

LAKEID in the lake-mean products contains the ARC-Lake ID for each lake in the data product.

LSWT

LSWT is the lake surface water temperature in Kelvin (K). For the unaveraged products this is the mean value over all observations in the cell at a single time of day. It is possible for the satellite instrument to make multiple observations of the cell at different times of the day. For such cases, LSWT contains the mean of all observations in the cell at the time of maximal clear-sky (i.e. where

NLSWT is largest). LSWT is provided in this form to increase the usefulness of the associated time information (OBSERVATION_TIME).

A single LSWT is reported for each cell, using the most optimal retrieval algorithm available. The LSWT retrieval algorithm used is defined by the variable CHANNEL_SET (in unaveraged products only).

For averaged products, LSWT is the mean lake surface water temperature averaged over all observations in the averaging time period and over all lake grid cells (for the lake-mean products only).

VAR_LSWT

VAR_LSWT is the variance of the LSWT field over the temporal averaging period in the averaged products and the variance of the LSWT field over both the temporal averaging period and the spatial extent of the lake for lake-mean averaged products. VAR_LSWT is not present in unaveraged products.

LAKEID

LAKEID is an integer value that provides a unique identifier for each lake. The LAKEID values match those used in the Global Lakes and Wetlands Database (GLWD), described by Lehner and Döll [2004]. A list of associations between LAKEID and lake names is given in Table 30 in the Appendix.

See LAKEID for alternative usage in lake-mean products.

MASK_MIN

MASK_MIN is the annual minimum target area water mask. It is set to 1 for cells deemed to have permanent water for the given year and is set to 0 elsewhere. MASK_MIN can be used in conjunction with LAKEID to assign the minimum area water mask to individual target IDs.

NCLOUD

NCLOUD is the number of pixels in the cell, flagged as cloudy by the ARC-Lake cloud detection scheme. This value contains only the number of cloudy pixels observed over lake surfaces. Observations over land surfaces within the cell are not considered.

For averaged products, NCLOUD is the mean of NCLOUD in the unaveraged products, over the temporal averaging period and across all lake cells (lake-mean products only).

NICE

NICE is the number of pixels in the cell, flagged as ice covered by the ARC-Lake ice detection scheme. This value contains only the number of ice covered pixels observed over lake surfaces. Observations over land surfaces within the cell are not considered.

For averaged products, NICE is the mean of NICE in the unaveraged products, over the temporal averaging period and across all lake cells (lake-mean products only).

An estimate of the fractional ice cover, under clear-sky conditions, can be obtained by combining the NICE and NLSWT data fields: ICE_FRACTION = NICE / (NICE+NLSWT).

NLSWT

NLSWT is the number of pixels in the cell, flagged as clear-sky (i.e. pixels that have passed ARC-Lake cloud and ice detection tests). This value contains only the number of clear-sky pixels observed over lake surfaces. Observations over land surfaces within the cell are not considered.

For averaged products, NLSWT is the mean of NLSWT in the unaveraged products, over the temporal averaging period and across all lake cells (lake-mean products only).

ERR_LSWT

ERR_LSWT is the estimated uncertainty in the lake surface temperature reported in the variable LSWT. Details of how this value is calculated are given in MacCallum and Merchant (2013).

For averaged products, ERR_LSWT is the mean of ERR_LSWT in the unaveraged products, over the temporal averaging period and across all lake cells (lake-mean products only).

CHI2

CHI2 is the χ^2 goodness of fit measure for the optimal estimation lake surface temperature retrieval. Details of how this value is calculated will be given in MacCallum and Merchant (2013).

For averaged products, CHI2 is the mean of CHI2 in the unaveraged products, over the temporal averaging period and across all lake cells (lake-mean products only).

OBSERVATION_TIME

OBSERVATION_TIME is the mean time of observations in the cell. It is recorded in seconds since midnight (UTC).

For averaged products, OBSERVATION_TIME is the mean of OBSERVATION_TIME in the unaveraged products, over the temporal averaging period and across all lake cells (lake-mean products only).

NDAYS

NDAYS is present in the unaveraged per-lake (PL) products only. It contains the number of days on which the satellite instrument observes the given lake in at least one 0.05°x0.05° grid cell. As for NCELLS, this includes cases where no LSWT retrievals are made due to cloud or ice cover. NDAYS determines the 3rd dimension of the 3-D data arrays in the PL files.

For the case of reconstruction-based PL files, NDAYS refers to the total number of days where the reconstruction is available. FLAG_SOURCE provides information on the source of the data used in the reconstruction for each day (i.e. whether reconstructions were performed using observations, FLake simulations of ice cover, or whether the reconstruction is based on temporal interpolation between observation days).

LONGRIDBOUNDS

LONGRIDBOUNDS is present in the PL products only. It contains the longitude indices that define the lake boundary on the 0.05° global grid.

GRIDBOUNDS Index	Index on Global Grid	Longitude/Latitude
0	Min. longitude index	Min. longitude
1	Max. longitude index	Max. longitude

Table 20. Contents of the LONGRIDBOUNDS variable.

LATGRIDBOUNDS

LATGRIDBOUNDS is present in the PL products only. It contains the latitude indices that define the lake boundary on the 0.05° global grid.

GRIDBOUNDS Index	Index on Global Grid	Longitude/Latitude
0	Min. latitude index	Min. latitude
1	Max. latitude index	Max. latitude

Table 21. Contents of the LATGRIDBOUNDS variable. Note that the minimum latitude index (LATGRIDBOUNDS[0]) corresponds to the maximum latitude value.

LONRANGE and LATRANGE

LONRANGE and LATRANGE are present in the PL products only. They contain the longitude and latitude boundaries (at cell centres) of the lake on the 0.05° grid. They correspond to the grid indices in LONGRIDBOUNDS (Table 20) and LATGRIDBOUNDS (Table 21).

GLOBAL_LON_ZERO

GLOBAL_LON_ZERO is the longitude value corresponding to a grid index of 0 on the 0.05° longitude grid. It represents the centre of the cell.

GLOBAL_LAT_ZERO

GLOBAL_LAT_ZERO is the latitude value corresponding to a grid index of 0 on the 0.05° latitude grid. It represents the centre of the cell.

GLOBAL_RESOLUTION

GLOBAL_RESOLUTION is the resolution in degrees of the grid cells on which data values are given.

CLIMATOLOGY_BOUNDS

CLIMATOLOGY_BOUNDS is present in all averaged data products and contains the start and end times of the averaging period. Times are given in the same format as those in TIME, days since 00:00:00 on 1st January 1970. Start times are 00:00:00 on the first day of observation, while end times are 23:59:59 on the final day of observation.

LON_BNDS

LON_BNDS is present in all data products and contains the westernmost and easternmost bounds of the cells for each longitude in LON. Units are degrees east.

LAT_BNDS

LAT_BNDS is present in all data products and contains the southernmost and northernmost bounds of the cells for each latitude in LAT. Units are degrees north.

TIME_BNDS

TIME_BNDS is present in global unaveraged products only and contains the start and end times of the observation period. Times are given in the same format as those in TIME, days since 00:00:00 on 1st January 1970. Start times are 00:00:00 on the first day of observation, while end times are 23:59:59 on the final day of observation.

NDAYS_SAT

NDAYS_SAT is present in all averaged data products and contains the number of days of satellite observations within the averaging period.

For global lake-mean products NDAYS_SAT is a 2-dimensional array containing the number of days of satellite observations within the averaging period for each lake.

FLAG_TIMESERIES

FLAG_TIMESERIES provides information on the quality of the reconstruction and which ATSR instruments have contributed to the averaged products. Its form varies across the different types of data product.

FLAG_TIMESERIES in the unaveraged reconstructions is a single integer value used to indicate whether the reconstruction is based on the original time-series of observations (0), an annual climatology derived from the observations (1), or is deemed to be invalid by expert assessment (2).

FLAG_TIMESERIES in the averaged per-lake products is a three-element vector containing the information described above (in the same format) for each ATSR instrument. The relevant element of FLAG_TIMESERIES is set equal to 2 if no data is available for a particular ATSR. For averaged products based on observations, FLAG_TIMESERIES only describes which ATSRs are present (using the same numbering scheme).

FLAG_TIMESERIES in the averaged global lake-mean products contains the three-element vector (as described above) for each lake.

FLAG_TIMESERIES in the averaged global spatially resolved products combines the information contained in FLAG_TIMESERIES in the averaged PL products, into a byte array on the global grid. This is done by setting bit-values to indicate whether reconstructions are based on climatology and whether reconstructions are valid (ATSR is present) for each ATSR. Details of this bit-setting method are given in Table 22. If the original time-series is used, then no bit-value is set for that ATSR.

Instrument	Climatology		Invalid	
	Bit	Value	Bit	Value
ATSR1	1	1	2	2
ATSR2	3	4	4	8
AATSR	5	16	6	32

Table 22. Details of bit-value settings for FLAG_TIMESERIES in the averaged global products.

FLAG_SOURCE

FLAG_SOURCE is present only in data products for unaveraged reconstructions and averaged daily lake-mean time-series from reconstructions. It provides information on the source of input data to DINEOF for each day of the reconstruction. The flag meanings for FLAG_SOURCE are outlined in Table 23. A value of zero indicates sufficient observations were present to use in DINEOF.

Bit	Value	Meaning
1	1	FLake data used
2	2	Too few observations for use in DINEOF
3	4	Interpolated in time

Table 23. Details of the bit-value settings for the FLAG_SOURCE variable.

NDAYS_FLAKE

NDAYS_FLAKE is present only in averaged data products derived from reconstructions. It contains the number of days where FLake simulations of ice cover have been used in the reconstruction, within the averaging period.

For global lake-mean products NDAYS_FLAKE is a 2-dimensional array containing the number of days of where FLake simulations of ice cover have been used in the reconstruction, within the averaging period, for each lake.

CROSS_ERR

CROSS_ERR is the cross-validation error (Kelvin) from the DINEOF reconstruction. It provides a measure the accuracy of the reconstruction, relative to the observations.

NEV

NEV is the number of eigenvectors used in the reconstruction. The optimal number of eigenvectors is determined by DINEOF.

TITLE

TITLE contains a description of the data product.

SOURCE

SOURCE contains a brief description of the source of the data (i.e. the stage of the processing chain).

VERSION

VERSION is the ARC-Lake version number.

CREATION_DATE

CREATION_DATE is the creation date of the original unaveraged ARC-Lake products from which all other products are derived.

DAY_NIGHT

DAY_NIGHT indicates whether observations are made during daytime or night time. Data are flagged in this manner based on the solar zenith angle: $< 90° =$ daytime, $\geq 90° =$ night time.

DATE

DATE is present in the DG product only. It is the date of observation.

ARCLAKE_NAME

ARCLAKE_NAME is present in the PL product only. It is ARC-Lake code name for the lake for which the PL product contains data.

ARCLAKE_ID

ARCLAKE_ID is present in the PL product only. It is ARC-Lake ID for the lake for which the PL product contains data. It should correspond to the lake ID given in the PL product filename and the lake IDs given in the variable LAKEID. A list of associations between lake IDs and lake names are is given in Table 30 in the Appendix.

CDO

CDO provides a description of the version of CDO used to generate the averaged products.

CONVENTIONS

CONVENTIONS provides the version of CF conventions to which the data product is designed to meet.

General Data Product Information

File Format
All data products are stored in the NetCDF file format.

Global Grid
Spatially-resolved data products are stored for cells at a longitude/latitude resolution of 0.05°x0.05°.

Positioning Per-Lake Data on the Global Grid
Spatially-resolved per-lake data are stored on a fixed longitude/latitude grid for each time-step (e.g. day of observation or averaging period). This includes time-steps where all observations are flagged as cloud or ice covered (i.e. NLSWT=0 for all grid cells). These variables are stored in 3-D arrays with dimensions [LON, LAT, TIME], where LON and LAT represent the longitude and latitude dimensions in terms of 0.05°x0.05° cells, and TIME represents the number of days where the lake is observed.

The location of the lake grid is given in terms of indices of a global grid at 0.05°x0.05° resolution (longitude range [-180,180], latitude range [90,-90]). This global grid is defined by the variables GLOBAL_LON_ZERO, GLOBAL_LAT_ZERO, and GLOBAL_RESOLUTION. The indices that provide the location information for the boundaries of the lake grid are held in the variables LONGRIDBOUNDS and LATGRIDBOUNDS, which contains the minimum and maximum indices for longitude and latitude. Using these variables the data for a given time-step can easily be placed in a 2-D global grid, as outlined in example lines of IDL code below.

```
IDL> lswt_grid = $
IDL> FLTARR((360/GLOBAL_RESOLUTION), (180/GLOBAL_RESOLUTION))
IDL> lswt_grid[LONGRIDBOUNDS[0]:LONGRIDBOUNDS[1],$
IDL> LATGRIDBOUNDS[0]:LATGRIDBOUNDS[1]] = $
IDL> LSWT[*,*,time_step]
```

Arrays of longitude and latitude values for the local grid cells are available in the variables, LON and LAT. These values represent the centre of grid cells.

Uncompressing the Unaveraged Global Observation Data Product
The unaveraged daily global product comprises of one file per day and contains data for all targets observed that day. V3 data are stored on a 2-D global grid using in built NetCDF4 compression to reduce the file size. Earlier versions of the data products are stored in NetCDF3 format, using compression by gathering. Further details of v1 and v2 data products are provided in v1.1.2 and earlier versions of this document.

Scaling and Offsets in Averaged Global Data Products
The spatially-resolved averaged global data products comprise of one file per averaging period and contain data for all lakes. As for the v3 unaveraged global files, data are stored on the full 2-D global grid. The same is true for v1 and v2 products (i.e. compression by gathering techniques as used in v1 and v2 unaveraged products are not applied). To reduce storage requirements, data are packed using the SCALE_FACTOR and ADD_OFFSET attributes, where possible. For example, LSWT is stored as integer values with SCALE_FACTOR=0.002 and ADD_OFFSET=260.0. This allows LSWT values with approximate range of 260-325 K to be stored with arithmetic precision of 0.002 K.

Averaging Methods

All spatial and temporal averaging applied to the unaveraged data to create the averaged data products is applied using the Climate Data Operators (CDO) software (https://code.zmaw.de/projects/cdo).

For reconstruction based products the averaging is performed over all data in the averaging period, as the reconstructions are temporally complete.

For observation based products an alternative averaging method is implemented, to reduce the impact of inconsistencies in sampling across the time periods (e.g. in a monthly mean for a month where temperatures are rising, a lack of observations in the later part of the month may result in an underestimate of the monthly mean LSWT). The mean LSWT over a time interval, *time*, is defined as:

$$O\_LSWT_{time} = \frac{\sum (O\_LSWT_d - C\_LSWT_d)}{nd} + C\_LSWT_{time}$$

Where: O_LSWT_d are the temporally incomplete LSWT observations, C_LSWT_d are the climatological daily mean LSWT, and C_LSWT_{time} are the climatological mean LSWT over the time interval, *time*. The subscript, *d*, indicates the day of observation, and *nd* the number of days of observations. O_LSWT_{time} is calculated for each grid cell independently. Climatology data derived from the reconstructions are used as the reference climatologies, C_LSWT_d and C_LSWT_{time}. Note, that for targets where the reconstruction failed (e.g. where there are too few observations), observation-based averaged products are determined using a straight average of the available observations for each time-period.

Land / Water Masks

Global land/water masks on the ARC-Lake product resolution (0.05°x0.05°) are also available. These are required for working with the averaged global products, as the land/water mask is not included in these products (to minimize file sizes).

Two types of land/water mask are provided: a maximum target area mask (based on observations over the full ATSR2-AATSR time period) and annual minimum target area masks. Only the maximum area mask provides the target ID information (in the LAKEID variable). The minimum area masks contain only a binary mask to indicate whether cells are water or not. Minimum area masks need to be used in conjunction with the maximum area mask in order to extract data for a specific target. The land/water mask data products are described in more detail in the following sections, where the colour scheme used in the tables is that given in Table 24.

Global attributes
Dimensions
Variables on grid points
Ancillary variables

Table 24. Colour scheme used to highlight which variables are shared across maximum and minimum area masks and which are unique to one land/water mask type.

Maximum Target Area Mask

This contains the maximum target area mask with cells corresponding to each target water body distinguishable by their target ID. It provides an estimate of the maximum spatial extent of each target over the ATSR2-AATSR time period (1995-2012), i.e. cells where water is present for at least part of the time period.

File Name

Basic File Name Format	Example
AL_LW_MASK_XXX.nc	AL_LW_MASK_020.nc

Table 25. File name for the ARC-Lake land/water mask on the 0.05°x0.05° global grid. Here XXX=020 indicates the grid resolution of $^1/_{20}$°.

Dimensions

Dimension Name	Description
LON	Longitude
LAT	Latitude

Table 26. Dimensions in the ARC-Lake land/water mask file.

Variables

Variable Name	Type	Description [units]	Contents / Array Dimensions
LON	FLOAT	Longitude at centre of grid cell. [degrees_east]	[LON]
LAT	FLOAT	Latitude at centre of grid cell. [degrees_north]	[LAT]
LAKEID	INT	Lake ID (>0 = valid lake ID)	[LON,LAT]
FLAGMIX	BYTE	Flag to indicate is more than one lake is present in the cell.	[LON,LAT]
NWATER	BYTE	Number of lake cells at the full (source) mask	[LON,LAT]

Variable Name	Type	Description	Contents / Array Dimensions
		resolution in the cell.	
LON_BNDS	FLOAT	Longitudes at (western and eastern) edges of grid cells. [degrees_east]	[NV, LON]
LAT_BNDS	FLOAT	Latitudes at (southern and northern) edges of grid cells. [degrees_north]	[NV, LON]
TITLE	STRING	Data product type	ARCLake – maximum area land/water ID mask
SOURCE	STRING	Source of data	ARCLake
VERSION	STRING	ARCLake version number	3.0
CREATION_DATE	STRING	Date of creation (YYYYMMDD)	20131024

Table 27. Overview of variables and global attributes present in the ARC-Lake land/water mask product.

Annual Minimum Target Area Masks

Global land/water masks representing the annual minimum target area on the ARC-Lake product resolution (0.05°x0.05°) are also available. Unlike the maximum area mask, which contains the target ID for each water cell, the annual minimum area masks do not provide information about which target a water cell lies in. Rather, it only provides a simple binary representation of whether each cell is water or not.

File Name

Basic File Name Format	Example
AL_LW_MASK_MIN_YYYY_XXX.nc	AL_LW_MASK_MIN_2010_020.nc

Table 28. File name for the ARC-Lake annual minimum area land/water masks on the 0.05°x0.05° global grid. Here XXX=020 indicates the grid resolution of $^1/_{20}$° and YYYY indicates the year the mask represents.

Dimensions

Dimension Name	Description
LON	Longitude
LAT	Latitude
TIME	Reference time to year of observations used to define mask.

Table 29. Dimensions in the ARC-Lake land/water mask file.

Variables

Variable Name	Type	Description [units]	Contents / Array Dimensions
LON	FLOAT	Longitude at centre of grid cell. [degrees_east]	[LON]
LAT	FLOAT	Latitude at centre of grid cell. [degrees_north]	[LAT]
TIME	FLOAT	Reference time for data: approximate mid-point of period used to define the mask [days since 00:00:00 01/01/1970]	[TIME]
WATER	INT	Lake ID (0 = not water, 1= water)	[LON,LAT,TIME]
LON_BNDS	FLOAT	Longitudes at (western	[NV, LON]

		and eastern) edges of grid cells. [degrees_east]	
LAT_BNDS	FLOAT	Latitudes at (southern and northern) edges of grid cells. [degrees_north]	[NV, LON]
TIME_BNDS	INT	Time bounds of data corresponding to TIME dimension.	[NV,TIME]
TITLE	STRING	Data product type	ARCLake – minimum annual area land/water mask
SOURCE	STRING	Source of data	ARCLake
VERSION	STRING	ARCLake version number	3.0
CREATION_DATE	STRING	Date of creation (YYYYMMDD)	20131024

Land/Water Masks - Detailed Data Description

Overview

Dimensions and ancillary variables are defined as for the data products (see Detailed Data Description section). The data variables present in the land/water mask files are described below.

LAKEID

LAKEID is an integer value that provides a unique identifier for each lake. The LAKEID values match those used in the Global Lakes and Wetlands Database (GLWD), described by Lehner and Döll [2004]. A list of associations between LAKEID and lake names is given in Table 30 in the Appendix. LAKEID is present in the maximum area mask file only.

FLAG_MIX

FLAG_MIX indicates whether each 0.05°x0.05° grid cell contains a single or multiple lakes: FLAG_MIX=0 indicates a single lake, FLAG_MIX=1 indicates that more than one lake exists in the cell. In cases where more than one lake exists, the cell average values may include data from both lakes. FLAG_MIX is present in the maximum area mask file only.

NWATER

NWATER contains the number of lake cells at the full source mask resolution ($^1/_{120}$°x$^1/_{120}$°) within the 0.05°x0.05° grid cell. NWATER is present in the maximum area mask file only.

WATER

WATER contains a binary mask indicating whether each cell is defined as water or not in the minimum target area mask for the given year. Cells determined to contain water throughout the year have WATER=1. All other cells have WATER=0. WATER is present in minimum area mask files only.

Source Resolution Land/Water Masks

Equivalent land/water mask products are also available at the full source mask resolution of $^1/_{120}$°x$^1/_{120}$°, as used in the LSWT processing scheme. The format and contents of these files are largely the same as the product resolution ($^1/_{20}$°x$^1/_{20}$°) files but with data stored on the higher resolution grid. The exceptions to this are the FLAG_MIX and NWATER variables, which are not

present in the source resolution products, as these variables are derived from the full source resolution masks.

The file naming convention for the source resolution land/water masks is the same as that for the product resolution files, with XXX=120 to indicate a grid resolution of $^{1}/_{120}°$.

References

Alvera-Azcárate, A., Barth, A., Rixen, M., and Beckers, J. 2005. Reconstruction of incomplete oceanographic data sets using empirical orthogonal functions: application to the Adriatic Sea surface temperature. *Ocean Modelling*, Vol. 9, pp. 325-346.

Lehner, B., and Döll, P. 2004. Development and validation of a global database of lakes, reservoirs and wetlands. *Journal of Hydrology*, Vol. 296, No. 1-4, pp. 1-22.

MacCallum, S. N. and Merchant, C. J., (2013), ARC-Lake – Algorithm Theoretical Basis Document v1.3, School of GeoSciences, The University of Edinburgh.

Appendix

Target IDs

Table 30 provides an alphabetical list of lake names and their associated lake IDs. These lake IDs correspond to the LAKEID and ARCLAKE_ID variables in the data products. The lake IDs listed in Table 30 also correspond to those used in the data product file names (e.g. ALID0166_PLOBS3D.nc contains data for Lake Abaya). Longitude and latitude values given in Table 30 represent the nominal lake centre. Depending on the shape of the lake and the location of islands within the lake, these coordinates may lie over land.

The "Data Quality" column indicates the type of data product available from reconstructions: TS2 = time-series available for ATSR2 and AATSR, TS1 = time-series available for only one ATSR instrument, CA = only climatology available, EX = Excluded (too few observations). Further details of these categories and the methods used to derive the reconstructions are provided in MacCallum and Merchant (2013).

ID	Name	Lon.	Lat.	Nation(s)	Data Quality
166	ABAYA	37.83	6.30	Ethiopia	TS1
527	ABE	41.79	11.17	Ethiopia; Djibouti	TS2
152	ABERDEEN	-98.59	64.55	Canada	TS1
1154	ABERT	-120.21	42.64	United States	EX
200	ABITIBI	-79.59	48.76	Canada	TS1
829	ABIYATA	38.76	7.61	Ethiopia	TS1
418	ABY	-3.23	5.23	Ivory Coast; Ghana	TS2
630	ACHIT	90.54	49.50	Mongolia	TS1
770	ADJUNTAS	-98.78	23.96	Mexico	TS2
1584	AFRERA YE'CH'EW	40.92	13.29	Ethiopia	CA
1092	AGATA	92.84	67.23	Russia	CA
693	AGGIKANI	-100.27	62.52	Canada	CA
1137	AIAPUA	-62.13	-4.46	Brazil	CA
2079	AKHTANIZOVSKIY	37.19	45.29	Russia	TS1
1969	AKKOL'	63.77	48.86	Kazakhstan	CA
1096	AKSAYQUIN	79.85	35.21	China	TS1
552	AKSEHIR	31.42	38.52	Turkey	CA
58	ALAKOL	81.75	46.11	Kazakhstan	TS1
957	ALAOTRA	48.51	-17.49	Madagascar	CA
432	ALBANIEL	-73.07	51.00	Canada	CA
30	ALBERT	30.91	1.67	Uganda; DR Congo	TS2
210	ALEXANDRINA	139.09	-35.52	Australia	TS2
1748	ALMANOR	-121.19	40.26	United States	TS1
1434	ALVARA OBREGON	-109.80	27.97	Mexico	CA
56	AMADJUAK	-71.13	64.99	Canada	TS1
1026	AMERICAN FALLS RESERVOIR	-112.75	42.92	United States	TS1
566	AMISK	-102.25	54.58	Canada	TS2
354	ANG-LA JEN	83.09	31.53	China	TS1
444	ANG-TZU	87.14	31.01	China	TS1
867	ANGAJURJUALUK	-78.97	71.13	Canada	TS1
324	ANGIKUNI	-100.04	62.27	Canada	EX
234	ANGOSTURA	-92.56	16.12	Mexico	TS2

1493	APOPKA	-81.62	28.62	United States	TS2
511	AQQIKKOL	88.42	37.06	China	TS1
4	ARAL	60.08	45.13	Kazakhstan; Uzbekistan	TS2
1273	ARAPA	-69.98	-15.19	Peru	TS1
946	ARARUAMA	-42.22	-22.89	Brazil	TS1
1958	ARGAZINSKOYE	60.40	55.40	Russia	CA
117	ARGENTINO	-73.03	-50.33	Argentina; Chile	TS2
98	ARGYLE	128.77	-16.43	Australia	TS2
3048	ARHYMOT LAKE	-160.36	61.63	United States	CA
1044	ARKATAG	89.42	36.34	China	TS1
1122	AROPUK LAKE	-163.80	61.09	United States	CA
334	ARTILLERY	-107.82	63.17	Canada	TS1
1806	ARU	82.37	34.01	China	EX
345	ASHUANIPI	-66.14	52.69	Canada	CA
1042	ASNEN	14.72	56.70	Sweden	CA
279	ASSAD	38.10	36.07	Syria	TS2
23	ATHABASCA	-109.96	59.10	Canada	TS2
1053	ATHAPAPUSKOW	-101.62	54.53	Canada	TS2
419	ATIKONAK	-64.62	52.73	Canada	CA
1479	ATITLA	-91.20	14.67	Guatemala	TS1
311	ATLIN	-133.75	59.57	Canada	TS1
491	AUBRY	-126.46	67.42	Canada	TS1
2124	AWASA	38.44	7.06	Ethiopia	CA
312	AYAKKUM	89.35	37.55	China	TS1
1625	AYAN	93.94	69.14	Russia	EX
226	AYLMER	-108.46	64.15	Canada	TS1
384	BABINE	-126.18	54.88	Canada	CA
173	BAHR AL MILH	43.66	32.78	Iraq	TS2
1740	BAIA GRANDE	-60.24	-15.52	Bolivia; Brazil	CA
8	BAIKAL	108.14	53.63	Russia	TS2
1445	BAIRAB	83.12	35.04	China	TS1
97	BAKER	-95.28	64.13	Canada	TS1
310	BALATON	17.83	46.88	Hungary	TS2
1277	BALDOCK	-97.89	56.56	Canada	CA
17	BALKHASH	73.95	45.91	Kazakhstan	TS2
1736	BANGDAG	81.56	34.95	China	CA
1804	BANGKOG	89.52	31.74	China	CA
536	BANGONG	79.71	33.61	China	TS1
81	BANGWEULU	29.76	-11.19	Zambia	TS2
1248	BARINGO	36.08	0.63	Kenya	CA
372	BARKAL	92.26	22.75	Bangladesh	TS1
2238	BARKOL	92.80	43.66	China	EX
1364	BARLOW	-103.05	61.95	Canada	CA
360	BARRA BONITA	-48.69	-23.34	Brazil	TS2
1102	BARRINGTON	-100.17	56.96	Canada	CA
229	BARUN-TOREY	115.81	50.07	Russia	TS2
621	BASKATONG	-75.75	46.83	Canada	TS1
1516	BAUNT	112.98	55.21	Russia	TS1
205	BAY	121.26	14.36	Philippines	TS2
1152	BEAR	-96.07	55.12	Canada	CA
677	BEAR LAKE	-111.33	42.01	United States	TS2
622	BEAS	76.07	32.00	India	CA

925	BEAVER HILL	-94.92	54.24	Canada	CA
1222	BEAVERHILL	-112.54	53.46	Canada	CA
145	BECHAROF	-156.40	57.85	United States	TS2
1417	BEI HULSAN	95.91	36.88	China	CA
635	BELOT	-126.26	66.88	Canada	TS1
160	BELOYE	37.64	60.18	Russia	TS2
1216	BERRE	5.11	43.49	France	TS2
1991	BEVERLEY	-158.73	59.66	United States	CA
1164	BEVERLY	-100.52	64.61	Canada	CA
267	BEYSEHIR	31.52	37.78	Turkey	TS2
706	BEYSUGSKTY	38.42	46.15	Russia	TS2
805	BICHE	-112.07	54.86	Canada	TS1
155	BIENVILLE	-72.98	55.05	Canada	TS1
711	BIG SAND	-99.76	57.71	Canada	CA
280	BIG TROUT	-90.02	53.77	Canada	TS2
1576	BIRCH	-121.61	64.62	Canada	CA
458	BISTCHO	-118.83	59.74	Canada	TS2
268	BIWA	136.08	35.25	Japan	TS2
2201	BIYLIKOL	70.70	43.04	Kazakhstan	CA
333	BLACK	-105.73	59.05	Canada	TS2
849	BLACKWATER	-123.12	63.99	Canada	TS1
1195	BLANC	-69.04	-54.07	Chile	TS2
1113	BLANCA	-71.21	-52.41	Chile	EX
763	BLOEMHOFDAM	25.67	-27.69	South Africa	CA
106	BLOMMESTEINMEER	-55.07	4.72	Suriname	TS2
417	BLUENOSE	-119.69	68.51	Canada	TS2
64	BOENG TONLE CHHMA	104.15	12.81	Cambodia	TS2
400	BOIS	-125.15	66.82	Canada	TS2
1787	BOL'SHO YERAVNOYE	111.49	52.62	Russia	TS1
944	BOL'SHOYE MORSKOYE	158.77	70.05	Russia	TS1
1028	BOLMEN	13.67	56.92	Sweden	CA
502	BOLON'	136.39	49.80	Russia	TS1
1596	BOLSENA	11.93	42.60	Italy	TS2
1011	BOLSHOY UVAT	70.47	57.54	Russia	CA
1336	BONG	91.15	31.22	China	CA
645	BOON TSAGAAN	99.09	45.58	Mongolia	TS2
181	BOSTEN	87.07	41.98	China	TS2
39	BRATSKOYE	103.07	54.85	Russia	TS1
768	BROCHET	-101.68	58.64	Canada	CA
2403	BROOKS	-155.93	58.50	United States	CA
1940	BROWN	-90.66	66.71	Canada	EX
94	BUENOS AIRES	-72.50	-46.66	Chile; Argentina	TS2
299	BUFFALO	-115.49	60.22	Canada	TS2
77	BUHAYRAT ATH THARTHAR	43.17	34.11	Iraq	TS2
2083	BUL'SHOYE TOKO	130.89	56.05	Russia	CA
1629	BULMER	-120.77	62.80	Canada	TS1
3607	BUNG BORAPHET	100.26	15.69	Thailand	CA
881	BURDUR	30.21	37.73	Turkey	TS2
2978	BURT LAKE	-84.67	45.47	United States	CA
795	BURTON	-78.30	54.76	Canada	CA
762	BUSTAKH	141.96	72.53	Russia	TS1
291	BUYR	117.69	47.81	Mongolia; China	TS2
42	CABORA BASSA	31.63	-15.73	Mozambique;	TS2

				Zimbabwe	
1361	CAIMANE	-106.11	22.99	Mexico	TS1
1583	CALAFQUEM	-72.15	-39.53	Chile	TS1
748	CALCASIEU LAKE	-93.34	29.96	United States	TS2
1370	CALLING	-113.31	55.24	Canada	TS2
2202	CAM	83.54	32.11	China	CA
1375	CANDLE	-105.29	53.82	Canada	TS2
168	CANIAPISCAU	-69.84	54.29	Canada	TS1
910	CANOE	-108.23	55.18	Canada	TS2
1193	CANYON FERRY LAKE	-111.56	46.50	United States	CA
257	CARATASCA	-83.85	15.35	Honduras	TS2
443	CARDIEL	-71.26	-48.90	Argentina	TS2
154	CARONI	-62.83	7.20	Venezuela	TS2
1761	CASCADE RESERVOIR	-116.10	44.63	United States	TS1
1	CASPIAN	50.36	41.85	Kazakhstan; Russia; Turkmenistan; Azerbaijan; Iran	TS2
1081	CASTIGNON	-68.57	56.32	Canada	CA
2484	CATEMACO	-95.04	18.40	Mexico	TS1
265	CAXUANA	-51.50	-2.04	Brazil	CA
57	CEDAR	-100.14	53.33	Canada	TS2
379	CERROS COLORADOS	-68.73	-38.58	Argentina	TS2
2116	CH'A-ERH-KU-T'E	88.24	31.81	China	EX
755	CHA-PU-YEH CH'A-K'A	84.03	31.37	China	CA
14	CHAD	14.19	13.45	Chad; Nigeria; Niger; Cameroon	TS1
1054	CHAMBRI	143.10	-4.26	Papua New Guinea	CA
579	CHAMO	37.55	5.83	Ethiopia	TS2
165	CHAMPLAIN	-73.27	44.45	United States; Canada	TS1
1503	CHANG	112.38	30.44	China	CA
2156	CHANG DANG	119.55	31.61	China	TS2
92	CHANY	77.39	54.83	Russia	TS1
233	CHAO	117.57	31.57	China	TS2
153	CHAPALA	-103.05	20.21	Mexico	TS2
296	CHARDARINSKOYE	68.17	41.15	Kazakhstan; Uzbekistan	TS2
1213	CHATYR-KEL'	75.28	40.64	Kyrgyzstan	TS1
1619	CHEM	79.79	34.15	China	CA
950	CHERTOVO	80.42	64.13	Russia	CA
844	CHIBOUGAMAU	-74.24	49.85	Canada	TS1
2317	CHIEMSEE	12.44	47.88	Germany	TS1
204	CHILKA	85.38	19.69	India	TS2
256	CHILWA	35.71	-15.32	Malawi	TS2
84	CHIQUITA	-62.61	-30.74	Argentina	TS2
119	CHISHI	29.72	-8.71	Zambia	TS2
1943	CHIUTA	35.85	-14.78	Malawi; Mozambique	TS1
220	CHOCON	-69.01	-39.46	Argentina	TS2
1567	CHOKE CANYON RESERVOIR	-98.38	28.49	United States	CA
483	CHUKCHAGIRSKOYE	136.58	52.00	Russia	TS1
1551	CHUKOCH'YE	160.28	69.45	Russia	CA
323	CHURCHILL	-108.29	55.96	Canada	TS2
1518	CILDIR	43.23	41.03	Turkey	TS1

125	CLAIRE	-112.08	58.59	Canada	TS2
554	CLARK	-154.33	60.23	United States	CA
1188	CLEAR	-122.77	39.02	United States	TS2
2253	CLEAR LAKE RESERVOIR	-121.15	41.86	United States	EX
646	CLEARWATER	-101.05	54.06	Canada	TS2
275	CLINTON COLDEN	-107.45	63.94	Canada	CA
277	COARI	-63.37	-4.25	Brazil	CA
588	COCHRANE	-71.95	-47.32	Chile; Argentina	CA
1016	COIPASA	-68.14	-19.22	Bolivia	EX
508	COLD	-110.04	54.53	Canada	TS2
219	COLHUE HUAPI	-68.76	-45.47	Argentina	TS1
426	COLVILLE	-125.99	67.19	Canada	TS2
352	CONSTANCE	9.28	47.65	Germany; Switzerland; Austria	TS1
162	CONTWOYTO	-110.66	65.59	Canada	TS1
800	CORANGAMITE	143.38	-38.20	Australia	CA
545	CORMORANT	-100.90	54.22	Canada	TS2
1057	CORRIB	-9.17	53.42	Ireland	CA
2157	CORTE	-92.13	18.59	Mexico	TS2
467	COUTURE	-75.38	60.03	Canada	CA
3493	CRATER LAKE	-122.11	42.94	United States	CA
1547	CREAN	-106.17	54.09	Canada	TS2
137	CREE	-106.64	57.47	Canada	TS1
1353	CROOKED	-98.30	72.60	Canada	CA
251	CROSS	-97.58	54.71	Canada	CA
590	CUITZEO	-101.18	19.95	Mexico	CA
754	CUMBERLAND	-102.33	54.04	Canada	TS2
1269	CURTIS	-89.21	66.69	Canada	EX
629	DABSAN	95.15	36.96	China	EX
623	DAGUAN	116.38	30.04	China	CA
543	DAGZE	88.00	31.70	China	TS1
827	DALAI	116.62	43.30	China	TS2
428	DALL LAKE	-163.89	60.30	United States	CA
1902	DANAU MANINDJAU	100.19	-0.33	Indonesia	CA
1257	DANAU PANIAI	136.33	-3.89	Indonesia	CA
487	DANAU POSO	120.62	-1.92	Indonesia	TS1
1433	DANAU RANAU	103.94	-4.89	Indonesia	CA
1377	DANAU ROMBERBAI	137.92	-1.87	Indonesia	CA
351	DAUPHIN	-99.77	51.27	Canada	TS2
1640	DAVY	-108.26	58.87	Canada	CA
2547	DAYAN	88.85	48.34	Mongolia	CA
244	DEAD	35.49	31.52	Jordan; West Bank; Israel	TS2
785	DEBO	-4.16	15.30	Mali	EX
1369	DEEP ROSE	-98.68	65.72	Canada	EX
326	DESCHAMBAULT	-103.45	54.78	Canada	TS2
1199	DEVILS LAKE	-98.97	48.02	United States	TS1
627	DIAN CHI	102.69	24.85	China	CA
1278	DJENPANG	116.22	-0.45	Indonesia	CA
509	DNESTROVSKYI	30.31	46.24	Ukraine	TS2
725	DOGAI CORING	89.02	34.57	China	CA
1891	DOGAICORING QUANG	89.25	35.27	China	TS1
1382	DOGEN	91.16	31.70	China	TS1

2080	DONG	84.73	32.17	China	EX
819	DONGGI CONA	98.54	35.30	China	TS1
1658	DONGPING	116.18	36.01	China	TS2
620	DONGTING	112.92	29.32	China	CA
281	DORE	-107.28	54.76	Canada	TS2
924	DORGE	92.10	35.21	China	TS1
549	DORGON	93.42	47.73	Mongolia	TS2
489	DORSOIDONG	89.81	33.38	China	TS1
1656	DOS OUADROS	-50.09	-29.70	Brazil	TS2
49	DUBAWNT	-101.44	63.13	Canada	TS2
1076	DUKAN	44.90	36.11	Iraq	TS2
580	EAGLE	-93.30	49.69	Canada	CA
2032	EAGLE LAKE	-120.74	40.64	United States	EX
128	EAU CLAIRE	-74.40	56.15	Canada	TS1
2285	EBEYTY	71.73	54.65	Russia	TS1
297	EBI	82.92	44.86	China	TS1
305	EBRIE	-4.26	5.30	Ivory Coast	CA
69	EDWARD	29.61	-0.39	DR Congo; Uganda	TS2
1676	EGG	-105.56	55.06	Canada	TS1
390	EGRIDIR	30.85	38.07	Turkey	TS2
1083	EL'TON	46.67	49.15	Russia	CA
1602	ELOYGYTGYN	172.08	67.50	Russia	TS2
254	ENNADAI	-101.31	60.96	Canada	TS1
723	ENRIQUILLO	-71.58	18.49	Dominican Republic	TS2
1975	EPECUEN	-62.87	-37.14	Argentina	TS2
1840	ERCEK	43.59	38.67	Turkey	TS1
767	ERH	100.18	25.78	China	CA
424	ERICHSEN	-80.41	70.61	Canada	TS1
12	ERIE	-81.16	42.25	Canada; United States	TS2
1526	ERNE	-7.69	54.42	United Kingdom	CA
149	ESKIMO	-132.76	69.10	Canada	TS2
270	EVANS	-77.02	50.97	Canada	TS1
1029	EVORON	136.51	51.48	Russia	CA
156	EYASI	35.04	-3.58	Tanzania	CA
430	FABER	-117.25	63.95	Canada	TS1
304	FAGNANO	-68.03	-54.55	Argentina; Chile	TS1
567	FALCON RESERVOIR	-99.26	26.76	Mexico; United States	CA
786	FARIBAULT	-71.92	59.06	Canada	CA
801	FEIA	-41.32	-22.02	Brazil	TS1
897	FEMUNDEN	11.85	62.17	Norway	CA
315	FERGUSON	-105.27	69.41	Canada	TS2
616	FINCH'A'	37.14	9.47	Ethiopia	EX
1357	FITRI	17.45	12.90	Chad	CA
1617	FLASJON	15.85	64.13	Sweden	CA
375	FLATHEAD LAKE	-114.18	47.89	United States	TS1
1027	FLETCHER	-108.72	63.60	Canada	CA
615	FORD	-97.36	63.40	Canada	TS1
201	FORT PECK LAKE	-107.29	47.68	United States	CA
1358	FUTOU	114.20	30.04	China	CA
892	FUXIAN	102.89	24.49	China	CA
2559	GAIBA	-57.73	-17.75	Bolivia; Brazil	TS1
347	GANDHI	75.60	24.43	India	TS1

287	GAOYOU	119.31	32.87	China	TS2
505	GARDA	10.70	45.67	Italy	TS2
227	GARRY	-99.40	65.95	Canada	TS1
1557	GAS HURE	90.79	38.12	China	EX
656	GAUER	-97.84	57.02	Canada	TS2
990	GE	119.81	31.60	China	TS2
1355	GENERAL VINTTER	-71.53	-43.93	Argentina; Chile	TS1
327	GENEVA	6.25	46.37	Switzerland; France	TS2
687	GEORGE	30.17	0.00	Uganda	CA
929	GEORGE	-81.61	29.33	United States	TS2
1831	GLAFSFJ	12.70	59.52	Sweden	CA
2358	GLAN	15.98	58.64	Sweden	CA
1275	GLUBOKOYE	90.10	69.27	Russia	EX
172	GODS	-94.21	54.62	Canada	TS2
570	GOELAND	-76.85	49.86	Canada	TS1
968	GOLODNAYA GUBA	52.66	67.85	Russia	TS1
1424	GOOSE	-101.54	54.44	Canada	TS1
464	GOOSE LAKE	-120.41	41.92	United States	TS1
678	GORDON	146.15	-42.72	Australia	CA
1103	GORDON	-113.22	63.08	Canada	EX
193	GORKOVSKOYE	43.13	57.11	Russia	TS1
442	GOVIND BALLABAH PANT	82.84	24.07	India	TS2
718	GOZHA	81.08	35.03	China	TS1
399	GRAND	-57.35	49.01	Canada	CA
979	GRAND	-66.02	46.03	Canada	TS1
987	GRAND	-60.50	53.68	Canada	EX
1129	GRAND LAKE	-92.75	29.90	United States	TS2
54	GRANDE	-76.73	53.86	Canada	TS1
63	GRANDE	-74.87	53.70	Canada	TS1
161	GRANDE	-57.86	-30.83	Argentina; Uruguay	TS1
760	GRANDIN	-118.98	63.99	Canada	TS1
363	GRANVILLE	-100.21	56.40	Canada	CA
252	GRAS	-110.38	64.54	Canada	CA
2067	GRASSET	-78.16	49.95	Canada	TS1
1170	GREAT	146.75	-41.89	Australia	CA
9	GREAT BEAR	-121.30	65.91	Canada	TS2
817	GREAT BITTER	32.44	30.29	Egypt	TS2
1756	GREAT SACANDAGA LAKE	-74.10	43.20	United States	TS1
26	GREAT SALT LAKE	-112.50	41.20	United States	TS2
11	GREAT SLAVE	-114.37	62.09	Canada	TS2
2898	GRENADA LAKE	-89.72	33.86	United States	CA
2517	GUANTING SHUIKU	115.69	40.33	China	CA
1007	GUARICO	-67.37	9.05	Venezuela	TS2
975	GUIERS	-15.84	16.18	Senegal	TS2
253	GUILLAUME-DELISLE	-76.28	56.33	Canada	TS1
1184	GUSINOYE	106.39	51.20	Russia	TS1
336	GYARING	97.27	34.92	China	TS2
1807	GYEZE CAKA	80.90	33.95	China	CA
738	HABBANIYAH	43.45	33.29	Iraq	TS2
389	HALL	-82.09	68.74	Canada	TS1
408	HAMMAR	47.04	30.76	Iraq	CA
221	HAMUN-E SABERI	61.28	31.37	Afghanistan; Iran	CA
596	HAN SHUI	111.20	32.66	China	TS1

1276	HANSINE	-85.66	65.60	Canada	CA
294	HAR	93.21	48.05	Mongolia	TS2
2270	HAR	95.16	48.46	Mongolia	CA
142	HAR US	92.30	48.06	Mongolia	TS2
302	HAR-HU	97.59	38.31	China	TS2
1265	HARNEY LAKE	-119.13	43.25	United States	CA
2616	HARRIS	-81.81	28.76	United States	TS1
1380	HATCHETT	-103.70	58.63	Canada	TS1
214	HAUKIVESI	28.52	62.10	Finland	CA
339	HAZEN	-70.94	81.80	Canada	TS2
834	HEDESUNDEFJ	17.14	60.33	Sweden	CA
460	HENDRIK VERWOERD	25.92	-30.58	South Africa	CA
643	HICKS	-99.94	61.38	Canada	CA
288	HIGHROCK	-100.44	55.83	Canada	CA
1422	HINDMARSH	141.91	-36.04	Australia	CA
249	HIRAKUD	83.77	21.64	India	CA
1110	HIRFANLI	33.69	39.16	Turkey	TS1
387	HJALMAREN	15.86	59.23	Sweden	TS2
736	HOH SAI	92.83	35.73	China	TS1
609	HOH XIL	91.12	35.58	China	TS1
637	HONDO	-64.98	-27.53	Argentina	TS2
964	HONEY LAKE	-120.32	40.27	United States	TS1
708	HONG	113.28	29.85	China	TS2
758	HORNAVAN	17.59	66.24	Sweden	CA
1106	HORTON	-122.50	67.48	Canada	TS1
189	HOTTAH	-118.44	64.95	Canada	TS2
2345	HOUGHTON LAKE	-84.71	44.34	United States	TS1
59	HOVSGOL	100.48	51.02	Mongolia	TS2
913	HSU-JU	86.41	30.27	China	TS1
1765	HUANG-CH'I	113.29	40.85	China	EX
75	HULUN	117.38	48.97	China	TS2
109	HUNGTZE	118.53	33.34	China	TS2
5	HURON	-82.21	44.78	Canada; United States	TS2
121	HYARGAS	93.30	49.13	Mongolia	TS2
2313	IHEMA	30.77	-1.89	Rwanda	CA
1869	IHOTRY	43.67	-21.94	Madagascar	TS2
89	IJSSELMEER	5.42	52.66	Netherlands	TS2
2627	IK	71.55	56.05	Russia	CA
192	IL'MEN'	31.30	58.30	Russia	TS2
391	ILE-A-LA-CROSSE	-107.75	55.56	Canada	CA
1593	ILERGYTGYN	158.97	70.51	Russia	EX
62	ILIAMNA	-154.90	59.56	United States	TS2
177	IMANDRA	33.07	67.72	Russia	TS1
852	IMURUK BASIN	-165.63	65.13	United States	TS1
2543	IMURUK LAKE	-163.19	65.60	United States	CA
144	INARI	27.83	69.04	Finland	TS1
1841	INAWASHIRO KO	140.09	37.47	Japan	CA
1555	INDAWNGY	96.34	25.15	Burma	CA
1722	INDER	51.91	48.47	Kazakhstan	CA
1444	INGRAY	-116.14	64.24	Canada	CA
266	INHERNILLO	-101.72	18.58	Mexico	TS1
954	INLAND LAKE	-159.84	66.46	United States	TS2

655	IRIKLINSKOYE	58.82	51.95	Russia	EX
1701	IRO	19.42	10.10	Chad	CA
174	ISLAND	-94.70	53.85	Canada	CA
25	ISSYKKUL	77.25	42.46	Kyrgyzstan	TS1
1441	ISTADA	67.92	32.48	Afghanistan	CA
19	ITAPARICA	-42.01	-10.18	Brazil	TS2
342	ITARARE	-49.62	-23.38	Brazil	TS2
1209	ITCHEN	-112.64	65.53	Canada	CA
245	IZABAL	-89.11	15.57	Guatemala	TS2
634	IZNIK	29.53	40.45	Turkey	TS2
936	JANIS YARVI	30.90	62.01	Russia	TS1
1219	JAYAKWADI	75.21	19.54	India	TS1
1575	JAYKO	-103.22	69.82	Canada	CA
1563	JEKYLL	-93.66	69.76	Canada	CA
983	JEN-CH'ING HSIU-PU-TS'O	83.42	31.27	China	TS1
1174	JILI	87.45	46.92	China	TS2
421	JOSEPH	-65.30	52.79	Canada	CA
1264	JUNIN	-76.15	-11.02	Peru	TS1
1107	JUNSHAN	116.31	28.51	China	CA
1157	K'OK'A	39.08	8.38	Ethiopia	EX
1046	KABAMBA	27.04	-7.90	DR Congo	TS1
1774	KABELE	25.97	-8.94	DR Congo	CA
1801	KABWE	26.02	-9.16	DR Congo	TS1
1149	KACH	69.88	24.03	India	CA
1705	KAGALURPAK LAKE	-163.98	60.96	United States	CA
116	KAINJI	4.56	10.43	Nigeria	TS2
79	KAKHOVSKOYE	33.95	47.27	Ukraine	TS2
988	KALLSJON	13.00	63.60	Sweden	CA
1462	KALRI	68.06	24.94	Pakistan	TS1
246	KAMINAK	-94.90	62.20	Canada	CA
320	KAMINURIAK	-95.79	62.96	Canada	TS1
104	KAMSKOYE	56.26	58.80	Russia	TS1
1360	KAMYSHLYBAS	61.78	46.20	Kazakhstan	TS2
264	KAMILUKUAK	-101.73	62.28	Canada	CA
131	KAPCHAGAYSKOYEVODO.	77.73	43.82	Kazakhstan	TS1
197	KARA-BOGAZ-GOL	53.54	41.23	Turkmenistan	TS2
470	KARAKUL	73.49	39.00	Tajikistan	TS1
1286	KARASOR	75.57	49.87	Kazakhstan	CA
35	KARIBA	27.60	-17.23	Zimbabwe; Zambia	TS2
124	KASBA	-102.27	60.34	Canada	TS2
1204	KASUMIGA-URA	140.37	36.05	Japan	TS1
1419	KAYIGYALIK LAKE	-162.48	61.03	United States	CA
461	KAYRAKKUMSKOYE	70.06	40.32	Tajikistan	TS2
945	KAYRAKKUMSKOYE	61.32	37.18	Turkmenistan	TS2
318	KEBAN BARAJI	39.23	38.87	Turkey	CA
1945	KEELEY	-108.13	54.89	Canada	TS2
2596	KEGUM KAGATI LAKE	-164.31	60.32	United States	CA
346	KEITELE	25.99	62.89	Finland	CA
465	KELLER	-121.58	63.95	Canada	TS1
1183	KEMIJARVI	27.53	66.62	Finland	CA
843	KERET	32.89	65.87	Russia	CA
1071	KESAGAMI	-80.32	50.31	Canada	CA
433	KETA	89.89	68.75	Russia	TS1

1598	KGUN LAKE	-163.81	61.56	United States	CA
45	KHANKA	132.42	44.94	Russia; China	TS2
2226	KHANSKOYE	38.35	46.24	Russia	TS2
218	KHANTAYSKOE	91.18	68.36	Russia	TS1
112	KHANTAYSKOYE	87.75	67.96	Russia	TS1
1023	KIANTA	29.12	65.03	Finland	EX
1218	KIKULETWA	37.41	-3.68	Tanzania	CA
1887	KILIBEK	70.65	53.88	Kazakhstan	CA
2271	KINKONY	45.80	-16.16	Madagascar	TS2
674	KISALE	26.49	-8.28	DR Congo	TS1
2148	KISHI'KAROY	71.34	54.03	Kazakhstan	CA
733	KISKITTO	-98.23	54.36	Canada	TS2
684	KISKITTOGISU	-98.37	54.21	Canada	TS2
1368	KISSIMMEE	-81.27	27.90	United States	TS1
1703	KISTIGAN	-92.66	54.60	Canada	CA
1733	KITANGIRI	34.30	-4.09	Tanzania	CA
1132	KIVIJARVI	25.16	63.15	Finland	CA
67	KIVU	29.23	-2.04	DR Congo; Rwanda	TS2
1605	KIYENG-KYUYEL'	109.57	73.02	Russia	TS1
436	KIYEVSKOYE	30.48	50.82	Ukraine	TS2
1056	KIZILIASHSKIY	37.05	45.12	Russia	TS2
447	KLUANE	-138.76	61.26	Canada	TS1
2838	KLUTINA LAKE	-145.98	61.67	United States	EX
927	KNEE	-94.54	55.08	Canada	CA
1108	KOITERE	30.70	62.97	Finland	CA
1215	KOKORA	101.08	72.99	Russia	TS1
1803	KOLMAJARVI	25.82	63.27	Finland	CA
928	KONNEVESI	26.54	62.69	Finland	CA
108	KOSSOU	-5.68	7.55	Ivory Coast	EX
242	KOVDOZERO	31.99	66.68	Russia	TS1
1538	KOVITSKOYE	33.41	67.12	Russia	TS1
1881	KOZHOZERO	38.17	63.08	Russia	CA
344	KRASNOE	174.44	64.53	Russia	TS2
93	KRASNOYARSKOYE	90.94	54.84	Russia	CA
87	KREMENSHUGSKOYE	32.62	49.28	Ukraine	TS2
756	KRONOTSKOYE	160.20	54.81	Russia	TS2
434	KUBENSKOYE	39.45	59.64	Russia	TS1
1050	KUCHUKSKOYE	79.77	52.70	Russia	TS1
1091	KUKAKLEK LAKE	-155.30	59.18	United States	TS2
262	KULUNDINSKOYE	79.58	52.98	Russia	TS2
671	KUNGASALAKH	107.23	74.61	Russia	EX
1971	KUO-MANG	89.20	31.21	China	CA
2264	KURIL'SKOYE	157.10	51.46	Russia	CA
1145	KUS	27.96	40.19	Turkey	TS2
550	KUSHMURUN	64.78	52.72	Kazakhstan	CA
33	KUYBYSHEVSKOYE	48.65	54.54	Russia	TS2
1327	KUYUMAZARSKOYE	64.83	39.85	Uzbekistan	TS2
325	KWANIA	32.65	1.72	Uganda	TS2
382	KYARING	88.32	31.13	China	TS1
99	KYOGA	33.01	1.50	Uganda	TS2
676	LA-ANG	81.21	30.72	China	TS1
331	LABAZ	99.57	72.27	Russia	TS1
940	LABERGE	-135.16	61.19	Canada	CA

2988	LAC DES ALLEMANDS	-90.57	29.92	United States	TS1
533	LACHA	38.77	61.31	Russia	TS2
16	LADOGA	31.39	60.84	Russia	TS2
575	LADY MELVILLE	-92.33	69.14	Canada	TS2
1827	LAGKOR	84.11	32.03	China	CA
584	LAKES NUYAKUK	-158.70	59.97	United States	CA
110	LAKES SAKAKAWEA	-102.32	47.81	United States	CA
561	LAMA	90.63	69.50	Russia	TS1
1146	LANGANO	38.59	7.60	Ethiopia	CA
524	LANO	124.24	7.89	Philippines	TS1
1246	LAPPAJARVI	23.67	63.15	Finland	TS1
1075	LAST MOUNTAIN	-105.22	51.03	Canada	CA
450	LEECH LAKE	-94.43	47.18	United States	TS2
939	LEKSOZERO	30.97	63.81	Russia	CA
147	LESSER SLAVE	-115.49	55.43	Canada	TS2
531	LIANGZI	114.51	30.23	China	CA
1957	LIMINGEN	13.57	64.79	Norway	CA
1815	LITTLE SACHIGO	-92.11	54.15	Canada	CA
534	LIVINGSTON	-95.14	30.80	United States	TS2
812	LIXI'OIDAIN	90.18	35.75	China	TS1
1295	LLANCANELO	-69.15	-35.62	Argentina	TS1
209	LLANQUIHUE	-72.79	-41.14	Chile	TS2
908	LOCHE	-109.48	56.46	Canada	TS1
376	LOKAN TERKOJARVI	27.77	67.97	Finland	TS1
539	LONGGAN	116.14	29.97	China	TS1
1721	LOUISE	-146.64	62.41	United States	CA
861	LOVOZERO	35.22	67.90	Russia	CA
159	LOW	-76.27	52.51	Canada	CA
1010	LOWER UGASHIK LAKE	-156.88	57.49	United States	CA
175	LUANG	100.38	7.46	Thailand	TS2
592	LUMAJANGDONG	81.64	34.01	China	TS1
1871	LUNG MU	80.44	34.62	China	CA
1430	LUOMA	118.21	34.06	China	TS2
1350	LURAN	-93.01	64.86	Canada	EX
574	M'BAKAOU	12.81	6.41	Cameroon	EX
439	MA-P'ANG YUNG-TS'O	81.49	30.67	China	TS2
184	MACKAY	-111.30	63.96	Canada	TS1
998	MACNAUGHTON	-98.41	67.30	Canada	CA
1019	MAHONY	-125.36	65.50	Canada	CA
90	MAI-NDOMBE	18.32	-2.14	DR Congo	TS2
1307	MAINIT	125.52	9.44	Philippines	CA
163	MALAREN	16.19	59.44	Sweden	CA
1735	MALARTIC	-78.11	48.34	Canada	CA
10	MALAWI	34.59	-11.96	Malawi; Mozambique; Tanzania	TS2
350	MALHEUR	-118.83	43.34	United States	CA
413	MALLERY	-98.36	63.97	Canada	TS1
586	MALOMBE	35.26	-14.64	Malawi	TS2
960	MALYYE CHANY	77.96	54.57	Russia	TS2
176	MANAGUA	-86.35	12.32	Nicaragua	TS2
664	MANAS	85.94	45.81	China	CA
1853	MANDIORA	-57.56	-18.13	Brazil; Bolivia	TS1
231	MANGUEIRA	-52.84	-33.16	Brazil	TS2

82	MANICOUAGAN	-69.13	51.35	Canada	TS1
37	MANITOBA	-98.80	50.99	Canada	TS2
1818	MANITOU	-81.99	45.78	Canada	TS1
368	MANOUANE	-70.99	50.76	Canada	CA
397	MANYARA	35.81	-3.58	Tanzania	CA
250	MANYCH-GUDILO	42.98	46.26	Russia	TS2
556	MARION	-80.47	33.53	United States	TS2
1089	MARJORIE	-99.36	64.15	Canada	EX
403	MARKAKOL'	85.77	48.75	Kazakhstan	TS1
100	MARTRE	-117.91	63.33	Canada	TS2
1243	MARY	-103.56	62.38	Canada	EX
493	MATAGAMI	-77.50	50.07	Canada	CA
1501	MATATILA	78.32	25.05	India	CA
1148	MATTAMUSKEET	-76.20	35.50	United States	TS2
540	MAUNOIR	-124.88	67.46	Canada	TS2
746	MAUREPAS	-90.45	30.27	United States	TS2
396	MCALPINE LANE	-102.64	66.52	Canada	CA
278	MEAD	-114.39	36.33	United States	TS2
573	MEEPLAEG	-56.62	48.26	Canada	TS1
2468	MELKOYE	70.20	69.70	Russia	TS1
1354	MEMAR	82.33	34.20	China	TS1
1255	MEYATO	70.64	70.15	Russia	EX
518	MHISA	10.99	60.82	Norway	TS1
6	MICHIGAN	-87.09	43.86	United States	TS2
520	MIGRIGGYANGZHAM	90.32	33.48	China	TS2
452	MIGUEL ALEMAN	-96.51	18.26	Mexico	TS1
366	MILLE LACS	-93.65	46.24	United States	TS2
420	MILLS	-118.15	61.43	Canada	CA
2168	MILLWOOD LAKE	-93.96	33.77	United States	TS2
3051	MINCHUMINA	-152.24	63.89	United States	CA
328	MINGECHAURSKOYE	46.79	40.93	Azerbaijan	TS2
822	MINGO	-72.14	64.59	Canada	TS1
1412	MINIJARVI	29.30	62.73	Finland	CA
705	MININDEE	142.33	-32.41	Australia	TS1
46	MIRIM	-53.25	-32.89	Brazil; Uruguay	TS2
76	MISTASSINI	-73.81	50.82	Canada	CA
1618	MIYUN SHUIKU	116.94	40.51	China	CA
1970	MO-K'O-YU	89.01	31.06	China	EX
673	MOGOTOYEYO	149.15	72.03	Russia	TS1
894	MOLOCHNOYE	35.34	46.54	Ukraine	TS2
454	MOLSON	-96.82	54.22	Canada	TS2
883	MONO	-118.96	38.01	United States	TS2
2099	MONTE	-62.47	-36.99	Argentina	TS2
405	MONTREAL	-105.69	54.32	Canada	TS2
617	MOOSEHEAD LAKE	-69.71	45.67	United States	CA
1302	MORARI	78.32	32.89	India	TS1
640	MOSQUITO	-103.33	62.59	Canada	CA
824	MOULTRIE	-80.07	33.31	United States	TS2
1283	MU-TS'O-PING-NI	86.25	30.63	China	TS1
2211	MUNDUYSKOYE	88.44	66.57	Russia	CA
1649	MURITZ	12.68	53.42	Germany	CA
850	MURRAY	-81.46	34.09	United States	TS1
448	MUSTERS	-69.23	-45.41	Argentina	TS2

36	MWERU	28.74	-9.01	Zambia; DR Congo	TS2
1960	MYAKSHINGA	93.53	67.00	Russia	EX
1079	NA	91.48	32.02	China	TS1
1281	NADUDOTURKU	84.11	72.84	Russia	CA
343	NAHUEL HUAPI	-71.52	-40.92	Argentina	TS1
1659	NAIVASHA	36.36	-0.77	Kenya	TS1
377	NAKNEK	-155.67	58.64	United States	CA
2252	NAKTEN	14.65	62.83	Sweden	EX
91	NAM	90.66	30.71	China	TS2
1261	NAMAYCUSH	-108.40	70.81	Canada	EX
989	NAMRU	90.84	32.08	China	TS1
1421	NANYI	118.89	31.11	China	TS2
1726	NARRAN	147.31	-29.90	Australia	CA
369	NASIJARVI	23.97	61.88	Finland	TS1
48	NASSER	32.58	22.86	Egypt; Sudan	TS2
322	NATRON	36.02	-2.34	Tanzania; Kenya	CA
481	NEAGH	-6.42	54.62	United Kingdom	TS2
1569	NEDZHELI	125.19	63.61	Russia	CA
1114	NEERGAURE	-79.91	70.22	Canada	CA
1121	NEGRA	-53.65	-34.05	Uruguay	TS2
132	NEGRO	-55.93	-32.70	Uruguay	TS2
503	NEJANILINI	-97.87	59.61	Canada	CA
884	NERKA	-159.01	59.53	United States	CA
338	NERPICH'YE	162.77	56.39	Russia	TS2
792	NERPICH'YE	160.18	69.29	Russia	TS2
32	NETILLING	-70.28	66.42	Canada	TS1
469	NETSILIK	-93.04	69.25	Canada	TS2
893	NEUCHATEL	6.84	46.90	Switzerland	TS1
1115	NEUSIEDL	16.78	47.80	Austria; Hungary	TS1
921	NEYATO	70.38	70.06	Russia	CA
1176	NEYTO	70.91	70.04	Russia	TS1
681	NGOIN	88.74	31.52	China	TS1
300	NGORING	97.71	34.93	China	TS2
21	NICARAGUA	-85.36	11.57	Nicaragua	TS2
1582	NIGHTHAWK	-80.98	48.44	Canada	CA
1061	NILAKKA	26.46	63.12	Finland	CA
1762	NINA BANG	-79.38	70.87	Canada	CA
38	NIPIGON	-88.55	49.80	Canada	TS2
198	NIPISSING	-79.92	46.24	Canada	TS2
833	NOI	105.39	15.01	Thailand	CA
1287	NOKOUE	2.46	6.43	Benin	TS2
211	NONACHO	-108.92	61.82	Canada	CA
1403	NONVIANUK LAKE	-155.35	59.00	United States	CA
2336	NORRA DELLEN	16.71	61.87	Sweden	TS1
516	NORTH CARIBOU	-90.74	52.79	Canada	CA
709	NORTH HENIK	-97.71	61.73	Canada	CA
303	NORTH MOOSE	-100.16	54.05	Canada	TS2
1832	NORTH WABASCA	-113.91	56.04	Canada	TS1
1185	NOSE	-108.91	65.42	Canada	EX
190	NOVOSIBIRSKOYE	82.03	54.37	Russia	TS1
682	NOWLEYE	-101.06	62.34	Canada	CA
83	NUELTIN	-99.40	60.25	Canada	CA
3308	NUIGALAK LAKE	-164.65	61.52	United States	CA

2669	NUNAVAKANUK LAKE	-164.66	62.05	United States	EX
1365	NUNAVAKPAK LAKE	-162.63	60.80	United States	TS1
2309	NUNAVAUGALUK LAKE	-158.91	59.24	United States	CA
707	NZILO	25.72	-10.66	DR Congo	TS1
122	OAHE	-100.38	45.49	United States	CA
526	OHRID	20.73	41.04	Yugoslavia; Albania	TS2
114	OKEECHOBEE	-80.86	26.95	United States	TS2
969	ONDOZERO	33.37	63.78	Russia	TS1
18	ONEGA	35.35	61.90	Russia	TS2
905	ONEIDA LAKE	-75.93	43.20	United States	EX
422	ONKIVESI	27.77	62.64	Finland	TS1
15	ONTARIO	-77.77	43.85	Canada; United States	TS2
1868	ONTOJARVI	29.18	64.12	Finland	CA
1344	OOLAGAHL LAKE	-95.61	36.55	United States	CA
374	OOTSA	-125.76	53.62	Canada	CA
608	OREL'	139.78	53.45	Russia	TS2
187	ORIVESI	29.59	62.35	Finland	TS2
773	OROG	91.01	50.15	Mongolia	TS1
1431	OROG	100.72	45.05	Mongolia	EX
290	OSSOKAMANUAN	-64.93	53.43	Canada	CA
1379	OTELNUC	-68.19	56.15	Canada	CA
202	OULUJARVI	27.70	64.35	Finland	TS1
248	OUTARDES QUATRE	-69.15	50.16	Canada	TS1
529	OXFORD	-95.44	54.85	Canada	TS1
1187	OZHOGINO	146.64	69.25	Russia	TS2
1323	P'A-LUNG	83.58	30.87	China	TS1
685	P'EI-K'U T'SO	85.58	28.90	China	TS1
1432	P'ENG-TS'O	90.97	31.52	China	TS1
1066	PA-MU-TS'O	90.58	31.25	China	TS1
258	PADUSKOYE MORE	30.86	68.38	Russia	TS1
157	PAIJANNE	25.49	61.71	Finland	TS1
1874	PAL'YEOZERO	33.77	62.59	Russia	CA
1214	PANGNIKTO	-92.97	69.52	Canada	TS1
1477	PARENT	-77.11	48.60	Canada	CA
2907	PARINACOCHA	-73.70	-15.30	Peru	CA
782	PASFIELD	-105.31	58.37	Canada	TS2
699	PAVYLON	151.99	68.39	Russia	TS1
353	PAYNE	-73.82	59.40	Canada	CA
50	PEIPUS	27.59	58.41	Russia; Estonia	TS2
435	PEKUL'NEYSKOYE	177.10	62.70	Russia	TS1
1511	PELEGRINI	-68.01	-38.70	Argentina	TS2
1221	PELICAN	-100.34	52.46	Canada	TS2
845	PELLY	-101.11	65.85	Canada	CA
546	PEND OREILLE	-116.44	48.13	United States	TS2
717	PERIBONCA	-71.27	50.14	Canada	CA
1867	PERIPTAVETO	79.01	71.36	Russia	CA
349	PERLAS	-83.67	12.54	Nicaragua	TS2
986	PERVOYE	71.57	67.94	Russia	TS1
2319	PESCHANOYE	53.06	68.64	Russia	CA
1670	PETENWELL LAKE	-89.92	44.17	United States	CA
222	PETER POND	-108.55	55.84	Canada	TS2
813	PETIT MANICOUAGAN	-67.78	51.85	Canada	CA

2799	PHELPS LAKE	-76.47	35.77	United States	TS1
195	PIELINEN	29.71	63.16	Finland	TS1
1910	PIGEON	-114.07	53.02	Canada	CA
1647	PILTANLOR	73.37	61.71	Russia	CA
474	PINEHOUSE	-106.47	55.55	Canada	TS1
223	PIPMUACAN	-70.12	49.62	Canada	CA
1497	PISO	-11.26	6.74	Liberia	CA
735	PITZ	-96.59	63.96	Canada	CA
213	PLAYGREEN	-97.75	54.07	Canada	TS2
517	PLETIPI	-70.21	51.70	Canada	CA
810	PLONGE	-107.34	55.12	Canada	TS2
1270	PO	116.44	30.15	China	CA
1616	POELELA	35.02	-24.52	Mozambique	TS1
232	POINT	-113.84	65.31	Canada	EX
649	POMO	90.40	28.55	China	TS1
499	POOL MALEBO	15.52	-4.22	DR Congo; Congo	EX
133	POOPO	-67.06	-18.81	Bolivia	TS1
495	PORTNYAGINO	106.95	74.14	Russia	TS2
911	PORTTIPAHTA	26.67	68.07	Finland	CA
2812	POTHOLES RESERVOIR	-119.31	47.02	United States	EX
78	POYANG	116.06	29.25	China	CA
1714	POYGAN	-88.87	44.12	United States	CA
1749	POZUELOS	-66.00	-22.34	Argentina	CA
690	PRESPA	21.02	40.89	Yugoslavia; Greece; Albania	TS2
409	PRIMROSE	-109.79	54.89	Canada	TS2
395	PRINCESS MARY	-97.66	63.93	Canada	CA
2012	PUEBLO VIEJO	-97.89	22.14	Mexico	TS1
934	PUKAKI	170.15	-43.97	New Zealand	CA
463	PULICAT	80.18	13.56	India	TS2
164	PURUVESI	29.02	61.77	Finland	TS1
530	PUULAVESI	26.66	61.84	Finland	CA
1207	PUYEHUE	-72.47	-40.68	Chile	TS1
273	PYAOZERO	30.98	66.07	Russia	TS1
240	PYASINO	87.78	69.77	Russia	TS1
1240	PYHAJARVI	22.28	61.00	Finland	TS2
1491	PYHAJARVI	25.89	63.61	Finland	CA
411	PYRAMID	-119.55	40.03	United States	TS2
806	QARUN	30.61	29.47	Egypt	TS2
41	QINGHAI	100.18	36.89	China	TS2
1031	QUAGAN	124.26	45.25	China	TS2
1413	QUARTZ	-80.66	70.93	Canada	CA
1140	QUUNNGUQ	-112.60	69.92	Canada	EX
130	RAINY	-92.97	48.61	Canada; United States	CA
937	RANA PRATAP	75.60	24.82	India	TS1
416	RANCO	-72.48	-40.23	Chile	TS2
1095	RANDIJAUR	19.06	66.80	Sweden	CA
358	RAZELM	28.97	44.83	Romania	TS2
151	RED	-95.08	48.04	United States	TS2
728	RED DEER	-101.36	52.95	Canada	TS2
797	RED SUCKER	-93.67	54.14	Canada	TS2
1694	REE	-7.99	53.56	Ireland	EX

977	REED	-100.45	54.64	Canada	TS2
28	REINDEER	-102.27	57.19	Canada	TS2
129	REPRESSA DE JUPIA	-50.58	-19.83	Brazil	TS2
613	RETENUE DE LA LUFIRA	27.02	-10.90	DR Congo	CA
657	RIJKAVESI	29.75	62.87	Finland	TS1
1041	RIOU	-106.39	59.12	Canada	CA
931	ROBERT S. KERR RESERVOIR	-94.95	35.38	United States	TS1
848	ROCKINGHORSE	-112.33	65.88	Canada	CA
1706	ROCKY	-101.48	54.12	Canada	TS2
127	RONGE	-104.83	55.11	Canada	TS2
1467	ROSS R. BARNETT RESERVOIR	-90.01	32.47	United States	TS1
1116	ROSSIGNOL	-65.08	44.20	Canada	CA
1013	ROSSVATNET	14.11	65.79	Norway	CA
1893	ROXEN	15.64	58.49	Sweden	CA
86	RUKWA	32.16	-7.84	Tanzania	TS2
831	RUPANCO	-72.44	-40.83	Chile	CA
1771	RWERU	30.32	-2.39	Burundi; Rwanda	CA
47	RYBINKSKOYE	38.13	58.49	Russia	TS2
804	SACHIGO	-92.07	53.80	Canada	TS2
2017	SAGARYCH'YE	146.54	70.98	Russia	TS1
407	SAI LI-MU	81.18	44.61	China	TS1
111	SAIMMAA	28.20	61.39	Finland	TS2
146	SAINT CLAIR	-82.73	42.50	Canada; United States	TS2
158	SAINT JEAN	-72.02	48.66	Canada	TS2
285	SAINT JOSEPH	-90.81	51.04	Canada	TS1
794	SAITLAN	78.56	54.98	Russia	TS2
282	SAKAMI	-76.75	53.22	Canada	CA
196	SALADA	-115.54	32.19	Mexico	CA
329	SALINES GRANDES	-64.82	-29.85	Argentina	CA
851	SALTAIM	71.93	56.12	Russia	TS2
194	SALTON	-115.83	33.30	United States	TS2
836	SALVADOR	-90.25	29.76	United States	TS2
362	SAM RAYBURN RESERVOIR	-94.36	31.26	United States	TS2
167	SAN MARTIN	-72.84	-48.75	Chile; Argentina	CA
356	SANDY	-93.03	53.00	Canada	CA
982	SANGIYN DALAY	99.10	49.22	Mongolia	CA
2073	SARMIENTO	-72.67	-51.04	Chile	EX
241	SARYKAMYSHSKOYE	57.61	41.88	Turkmenistan	TS2
247	SASYKKOL	80.91	46.58	Kazakhstan	TS1
1627	SAUMATRE	-71.96	18.57	Haiti; Dominican Republic	TS1
138	SAYANO-SHUSHENSKOYE	92.41	52.26	Russia	CA
438	SCHULTZ	-97.44	64.74	Canada	TS1
313	SCOTT	-106.07	60.02	Canada	CA
488	SCUTARI	19.28	42.19	Yugoslavia; Albania	TS2
1498	SEBAGO LAKE	-70.55	43.85	United States	TS2
228	SEGOZERO	33.76	63.32	Russia	TS2
170	SELAWIK	-160.73	66.51	United States	TS2
271	SELETYTENIZ	73.18	53.23	Kazakhstan	TS1
1086	SELINGUE	-8.17	11.50	Mali	EX
292	SELWYN	-104.68	60.00	Canada	CA

1904	SEMAJANG	116.47	-0.23	Indonesia	CA
1133	SEN-KYUYEL	155.27	68.55	Russia	CA
2163	SERGAZERO	36.75	66.77	Russia	TS1
107	SEUL	-92.05	50.40	Canada	CA
135	SEVAN	45.29	40.39	Armenia	TS2
978	SHAGANY	29.97	45.80	Ukraine	TS2
604	SHALA	38.51	7.46	Ethiopia	TS2
907	SHALKAR	51.67	50.57	Kazakhstan	TS2
143	SHERMAN	-97.73	67.79	Canada	TS2
791	SHIJIU	118.87	31.46	China	TS2
1340	SHURYSHKARSKIY	65.14	65.99	Russia	TS1
1037	SID	-104.09	62.27	Canada	CA
654	SILJAN	14.80	60.86	Sweden	TS1
555	SIMARD	-78.92	47.57	Canada	TS1
236	SIMCOE	-79.42	44.47	Canada	TS2
301	SIPIWESK	-97.81	54.99	Canada	TS1
611	SIRIKIT	100.50	17.95	Thailand	CA
667	SITIDGI	-132.67	68.54	Canada	TS1
1423	SKAGERN	14.25	58.99	Sweden	TS1
1745	SKILAK LAKE	-150.40	60.44	United States	CA
27	SMALLWOOD	-64.31	54.19	Canada	TS2
672	SMOOTHSTONE	-106.82	54.65	Canada	TS2
1505	SNIARDWY	21.75	53.76	Poland	TS1
365	SNOWBIRD	-102.94	60.64	Canada	TS1
1711	SOBACH'YE	91.52	69.06	Russia	EX
410	SOLENOYE	35.24	45.44	Ukraine	TS2
1381	SOLUNTAKH	143.24	71.71	Russia	TS1
688	SONG-KEL	75.17	41.84	Kyrgyzstan	TS1
319	SOUTH HENIK	-97.29	61.37	Canada	TS1
225	SOUTH MOOSE	-100.04	53.83	Canada	TS2
72	SOUTHERN INDIAN	-98.61	57.14	Canada	TS2
581	SPLIT	-96.25	56.18	Canada	CA
472	SREDNEYE KUYTO	31.59	65.02	Russia	CA
702	ST. FRANCIS	-74.48	45.13	Canada; United States	TS1
618	ST. LUCIA	32.47	-28.11	South Africa	TS1
538	ST. MARTIN	-98.51	51.65	Canada	TS2
423	ST. PETER	-72.90	46.15	Canada	TS2
2335	ST. THERESE	-121.96	64.36	Canada	CA
1178	STARUMAN	16.69	65.26	Sweden	CA
337	STEPHENS	-95.07	56.42	Canada	CA
877	STEVENSON	-95.90	53.90	Canada	CA
811	STORA LULLEVATEN	19.12	67.28	Sweden	CA
393	STORSJON	14.41	63.09	Sweden	TS2
1259	STROBEL	-71.23	-48.37	Argentina	TS1
501	STUART	-124.58	54.55	Canada	TS1
1684	SUHAI	93.88	38.86	China	CA
1509	SUMMER LAKE	-120.73	42.83	United States	CA
2	SUPERIOR	-88.23	47.72	Canada; United States	TS2
721	SURREY	-107.16	69.67	Canada	CA
715	SUVASVESI	28.33	62.62	Finland	TS1
624	SWAN	-100.74	52.49	Canada	TS2

1997	SYRKOVOYE	64.98	60.65	Russia	CA
85	SYVASH	34.74	45.96	Ukraine	TS2
383	T'A-JO	84.12	31.13	China	TS1
744	TA-TSE	87.43	31.88	China	TS1
818	TAAL	121.01	13.99	Philippines	CA
619	TADOUIE	-98.33	58.59	Canada	CA
1200	TAHIRYUAK	-112.18	70.95	Canada	EX
380	TAHOE	-120.04	39.09	United States	TS2
1158	TAHOE	-108.92	70.03	Canada	EX
66	TAI	120.24	31.21	China	TS2
1205	TAI	112.66	40.55	China	TS1
2203	TAJO-TZO	84.05	30.41	China	EX
178	TAKIYUAK	-113.17	66.28	Canada	TS1
2159	TAKSLESLUK LAKE	-162.87	61.07	United States	EX
1003	TALBOT	-99.90	54.01	Canada	TS2
2190	TAMES	-98.08	22.22	Mexico	TS1
235	TAMIAHUA	-97.57	21.66	Mexico	TS2
55	TANA	37.31	11.95	Ethiopia	TS2
7	TANGANYIKA	29.46	-6.07	DR Congo; Tanzania; Zambia; Burundi	TS2
215	TANGRA	86.59	31.05	China	TS2
73	TAPAJOS	-55.14	-2.88	Brazil	TS2
316	TATHLINA	-117.64	60.54	Canada	TS2
1004	TATINNAI	-97.70	60.91	Canada	TS1
295	TAUPO	175.90	-38.81	New Zealand	TS2
43	TAYMYR	100.76	74.48	Russia	TS2
514	TAZIN	-109.20	59.81	Canada	CA
1239	TAZLINA LAKE	-146.51	61.88	United States	CA
532	TE ANAU	167.67	-45.18	New Zealand	TS1
373	TEBESJUAK	-98.98	63.76	Canada	TS1
1241	TEFE	-64.75	-3.45	Brazil	CA
371	TEHEK	-95.62	64.92	Canada	CA
1002	TEKAPO	170.53	-43.75	New Zealand	CA
920	TELMEN	97.33	48.83	Mongolia	TS2
1675	TEMCHI	95.00	66.79	Russia	EX
120	TENGIZ	68.90	50.44	Kazakhstan	TS2
179	TERINAM	85.61	30.90	China	TS2
212	TESHEKPUK	-153.60	70.59	United States	TS1
490	TESLIN	-132.39	59.97	Canada	EX
2655	TETLIN LAKE	-142.77	63.10	United States	CA
2186	THINGVALLAVAIN	-21.13	64.19	Iceland	CA
1196	TIBERIAS	35.59	32.80	Israel; Syria	TS2
825	TIKSHE	31.86	66.28	Russia	TS1
633	TIMISKAMING	-79.44	47.20	Canada	CA
20	TITICACA	-69.30	-15.92	Peru; Bolivia	TS2
150	TOBA	98.90	2.61	Indonesia	CA
713	TOBIN	-103.49	53.57	Canada	TS2
729	TOKTOGUL'SKOYE	72.91	41.76	Kyrgyzstan	TS1
243	TOLEDO BEND RESERVOIR	-93.81	31.55	United States	TS2
1741	TONSKOYE	98.98	72.21	Russia	CA
186	TOPOZERO	32.09	65.62	Russia	TS1
1235	TORMEMTOR	79.37	61.22	Russia	CA
594	TORNETRASK	19.34	68.34	Sweden; Norway	TS1

962	TORO	-72.71	-51.22	Chile	CA
1916	TORROJEN	13.00	63.88	Sweden	CA
1130	TOSON	96.94	37.13	China	CA
332	TOWUTI	121.52	-2.79	Indonesia	TS1
1529	TRASIMENO	12.10	43.14	Italy	TS2
367	TROUT	-121.13	60.58	Canada	TS2
486	TROUT	-93.28	51.20	Canada	TS2
601	TSHCHIKSKOYE	39.34	45.04	Russia	TS2
71	TSIMLYANSKOYE	42.98	48.05	Russia	TS2
52	TUCURUI	-49.49	-4.57	Brazil	TS2
1789	TUDAKOL'	64.18	39.12	Uzbekistan	TS1
269	TULEMALU	-99.48	62.99	Canada	TS1
255	TUMBA	17.98	-0.82	DR Congo	CA
528	TUNGABHADRA	76.13	15.20	India	CA
22	TURKANA	36.08	3.53	Kenya; Ethiopia	TS2
771	TURNOR	-108.65	56.56	Canada	TS1
2019	TURSUNTSKIY TUMAN	63.96	60.56	Russia	CA
632	TUSTUMENA LAKE	-150.90	60.17	United States	TS1
185	TUZ	33.36	38.86	Turkey	TS2
1392	TYRIFJORDEN	10.17	60.02	Norway	CA
425	UBINSKOYE	80.05	55.47	Russia	TS2
603	UBOLRATNA	102.60	16.69	Thailand	CA
710	UDDJAUR	17.82	65.98	Sweden	TS1
500	UDYL'	139.77	52.07	Russia	TS1
1059	UKAL	73.79	21.35	India	TS1
985	ULAKH ULYUNG	151.34	68.23	Russia	TS1
1236	ULUBAT	28.59	40.17	Turkey	TS2
239	ULUNGUR	87.30	47.22	China	TS2
548	UMBOZERO	34.40	67.71	Russia	TS1
1984	UNDEN	14.46	58.77	Sweden	CA
314	UPEMBA	26.40	-8.65	DR Congo	TS1
559	UPPER KLAMATH LAKE	-121.89	42.42	United States	TS1
882	UPPER UGASHIK LAKE	-156.70	57.67	United States	CA
34	URMIA	45.49	37.64	Iran	TS2
102	UST-ILIMSKOYE	102.32	57.15	Russia	CA
523	UTAH LAKE	-111.80	40.20	United States	TS2
669	UTIKUMA	-115.39	55.86	Canada	TS2
2955	UVIL'DY	60.50	55.54	Russia	CA
53	UVS	92.81	50.33	Mongolia; Russia	TS2
1609	UYALY	81.27	46.43	Kazakhstan	TS1
562	VAALDAM	28.32	-27.01	South Africa	EX
1550	VACCARES	4.58	43.52	France	TS2
515	VALENCIA	-67.74	10.18	Venezuela	TS2
1941	VALLI DI COMACCHIO	12.16	44.60	Italy	TS2
51	VAN	42.98	38.66	Turkey	TS2
1201	VANAJANSELKA	24.09	61.18	Finland	CA
29	VANERN	13.22	58.88	Sweden	TS2
2060	VASTENJAURE	16.63	67.48	Sweden	EX
95	VATTERN	14.57	58.33	Sweden	TS2
3238	VERRET	-91.14	29.89	United States	CA
1820	VESIJARVI	25.39	61.09	Finland	CA
3	VICTORIA	33.23	-1.30	Tanzania; Uganda; Kenya	TS2

1537	VICTORIA	141.30	-34.02	Australia	TS2
171	VIEDMA	-72.56	-49.59	Argentina	TS2
1109	VILLARRICA	-72.09	-39.26	Chile	TS2
80	VILYUYSKOYE	111.16	62.73	Russia	TS2
1718	VIRIHAURE	16.55	67.37	Sweden	CA
901	VIRMASVESI	26.87	62.83	Finland	CA
2054	VISOHISARVI	26.70	61.18	Finland	CA
776	VIVI	93.81	66.76	Russia	EX
522	VODLOZERO	36.92	62.32	Russia	TS1
61	VOLGOGRADSKOYE	45.85	50.35	Russia	TS2
24	VOLTA	0.11	7.63	Ghana	TS2
679	VORTIS-JARV	26.04	58.22	Estonia	TS2
237	VOTKINSKOYE	55.01	57.22	Russia	CA
427	VOZHE	39.10	60.57	Russia	TS2
1126	VTOROYE	71.15	68.03	Russia	TS1
1717	VYALOZERO	35.19	66.83	Russia	CA
136	VYGOZERO	34.84	63.54	Russia	TS2
1169	WABIGOON	-92.54	49.65	Canada	CA
1128	WALKER	-118.71	38.70	United States	TS2
1249	WALKER	-96.94	54.70	Canada	CA
765	WALMSLEY	-108.61	63.42	Canada	CA
1359	WANAPITEI	-80.74	46.73	Canada	TS2
779	WAPAWEKKA	-104.66	54.90	Canada	TS2
1425	WASEKAMIO	-108.76	56.74	Canada	TS1
757	WASHBURN	-107.49	70.07	Canada	TS1
789	WASKAIOWAKA	-96.44	56.56	Canada	CA
904	WASWANIPI	-76.50	49.60	Canada	CA
837	WATERHEN	-99.57	52.09	Canada	TS2
1590	WATTERSON	-99.38	61.21	Canada	CA
1112	WEAGAMOW	-91.37	52.88	Canada	TS1
876	WEISHAN	117.24	34.61	China	TS2
1062	WEKUSKO	-99.82	54.76	Canada	TS2
1266	WELLINGTON	147.32	-38.10	Australia	TS2
449	WHARTON	-99.74	64.00	Canada	EX
512	WHITE FISH	-106.74	62.67	Canada	CA
872	WHITE LAKE	-92.50	29.74	United States	TS2
2169	WHITEFISH LAKE	-160.01	61.37	United States	CA
973	WHITEHILLS	-95.98	64.51	Canada	CA
169	WHOLDAIA	-104.15	60.69	Canada	CA
1623	WILLIAM	-99.38	53.89	Canada	CA
103	WILLISTON	-123.91	55.95	Canada	TS1
1220	WILLOW	-119.07	62.17	Canada	CA
1489	WINEFRED	-110.53	55.51	Canada	TS1
340	WINNEBAGO	-88.42	44.02	United States	TS2
761	WINNIBIGOSHISH	-94.17	47.45	United States	TS2
13	WINNIPEG	-97.25	52.12	Canada	TS2
31	WINNIPEGOSIS	-100.05	52.37	Canada	TS2
68	WOLLASTON	-103.33	58.30	Canada	TS2
44	WOODS	-94.91	49.38	Canada; United States	TS2
790	WU-LIANG-SU	108.83	40.93	China	CA
1653	XIAOXIHAIZ SHUIKU	78.73	39.72	China	CA
639	XIJIR ULAN	90.26	35.22	China	TS1

134	XINGU	-52.20	-2.16	Brazil	CA
1790	YAGGAIN CANCO	89.81	33.00	China	CA
840	YALPUG	28.63	45.48	Ukraine	TS2
714	YAM	33.17	61.95	Russia	TS1
519	YAMBA	-111.25	64.96	Canada	EX
1123	YAMBUTO	79.42	71.19	Russia	TS1
1739	YAMBUTO	69.13	69.50	Russia	TS1
261	YAMDROK	90.76	28.97	China	CA
1597	YANGCHENG	120.79	31.43	China	CA
2395	YARDI	40.50	10.21	Ethiopia	CA
126	YATHKYED	-98.07	62.69	Canada	TS1
572	YELLOWSTONE LAKE	-110.39	44.43	United States	TS1
778	YESSEY	102.40	68.43	Russia	TS1
751	YLI -KITKA	28.64	66.13	Finland	CA
2018	YUELIANG PAO	123.87	45.70	China	CA
731	ZAPATOSA	-73.83	9.14	Colombia	TS1
40	ZAYSAN	83.44	48.70	Kazakhstan	TS1
662	ZETA	-106.64	71.05	Canada	EX
88	ZEYSKOYE	127.80	54.26	Russia	TS2
880	ZHALAULY	74.18	52.89	Kazakhstan	CA
1979	ZHANGDU	114.73	30.66	China	CA
105	ZILING	88.95	31.77	China	TS2
917	ZIMBAMBO	26.88	-8.11	DR Congo	CA
445	ZIWAY	38.84	7.98	Ethiopia	TS1
732	ZONAG	91.94	35.55	China	TS1
113	ZZZZ	48.36	52.74	Russia	TS1
238	ZZZZ	-49.05	-18.39	Brazil	TS1
306	ZZZZ	13.97	8.88	Cameroon	CA
309	ZZZZ	-113.52	41.11	United States	EX
330	ZZZZ	99.04	14.75	Thailand	CA
341	ZZZZ	-47.77	-18.42	Brazil	TS1
361	ZZZZ	34.17	48.77	Ukraine	TS1
385	ZZZZ	-94.14	16.14	Mexico	TS2
398	ZZZZ	133.51	-17.79	Australia	CA
406	ZZZZ	-134.19	59.98	Canada	CA
414	ZZZZ	-74.40	10.86	Colombia	TS2
415	ZZZZ	102.66	18.61	Laos	TS1
431	ZZZZ	-172.85	66.94	Russia	TS1
437	ZZZZ	-118.44	52.15	Canada	CA
455	ZZZZ	32.22	14.73	Sudan	CA
456	ZZZZ	90.34	34.79	China	TS1
459	ZZZZ	-176.01	67.69	Russia	TS1
462	ZZZZ	25.95	-15.67	Zambia	TS2
466	ZZZZ	118.98	29.59	China	CA
471	ZZZZ	31.22	49.98	Ukraine	TS2
476	ZZZZ	-55.38	-2.24	Brazil	TS2
482	ZZZZ	-99.49	56.36	Canada	CA
484	ZZZZ	42.03	34.38	Iraq	TS1
485	ZZZZ	3.66	6.52	Nigeria	TS1
494	ZZZZ	-50.09	-19.96	Brazil	TS1
513	ZZZZ	-58.25	-2.92	Brazil	CA
521	ZZZZ	-94.73	72.77	Canada	CA
535	ZZZZ	-107.55	24.51	Mexico	TS2

551	ZZZZ	-178.26	68.50	Russia	TS1
558	ZZZZ	-106.00	50.08	Canada	TS2
564	ZZZZ	58.49	43.44	Uzbekistan	CA
568	ZZZZ	-105.64	61.44	Canada	EX
569	ZZZZ	-117.71	60.93	Canada	TS2
577	ZZZZ	-73.05	70.39	Canada	EX
583	ZZZZ	-73.45	70.61	Canada	EX
607	ZZZZ	-89.21	52.94	Canada	CA
612	ZZZZ	140.25	51.64	Russia	TS1
614	ZZZZ	114.54	23.91	China	CA
631	ZZZZ	-101.35	55.18	Canada	CA
648	ZZZZ	-65.96	-13.02	Bolivia	TS2
660	ZZZZ	-55.23	-25.22	Paraguay	TS1
665	ZZZZ	-75.32	64.98	Canada	EX
670	ZZZZ	178.37	63.52	Russia	TS1
675	ZZZZ	-79.39	56.16	Canada	EX
683	ZZZZ	-54.99	-1.99	Brazil	CA
689	ZZZZ	-159.93	70.41	United States	TS1
692	ZZZZ	-50.74	-1.87	Brazil	CA
701	ZZZZ	3.95	6.51	Nigeria	EX
704	ZZZZ	-64.28	55.47	Canada	CA
727	ZZZZ	38.38	37.60	Turkey	TS2
730	ZZZZ	-104.35	51.88	Canada	TS2
750	ZZZZ	96.96	19.99	Burma	CA
752	ZZZZ	-101.88	55.72	Canada	CA
753	ZZZZ	-107.07	55.87	Canada	CA
759	ZZZZ	0.90	5.92	Ghana	TS2
769	ZZZZ	-88.16	50.76	Canada	CA
777	ZZZZ	-97.42	66.48	Canada	CA
781	ZZZZ	-111.05	64.16	Canada	CA
783	ZZZZ	89.22	69.35	Russia	TS1
796	ZZZZ	99.87	74.09	Russia	TS1
799	ZZZZ	47.83	31.17	Iran; Iraq	CA
802	ZZZZ	-12.62	16.15	Mauritania	CA
828	ZZZZ	-109.71	65.06	Canada	EX
838	ZZZZ	31.88	64.48	Russia	CA
856	ZZZZ	-64.25	53.64	Canada	CA
868	ZZZZ	-109.54	64.38	Canada	EX
870	ZZZZ	48.20	49.04	Kazakhstan	CA
879	ZZZZ	74.35	44.85	Kazakhstan	CA
887	ZZZZ	-102.35	61.70	Canada	CA
888	ZZZZ	27.37	63.03	Finland	CA
902	ZZZZ	72.95	53.84	Kazakhstan	TS1
915	ZZZZ	-60.79	-3.33	Brazil	CA
919	ZZZZ	30.68	65.06	Russia	CA
922	ZZZZ	-110.70	69.07	Canada	EX
923	ZZZZ	35.36	68.46	Russia	CA
930	ZZZZ	-110.06	61.14	Canada	EX
933	ZZZZ	172.51	-43.79	New Zealand	TS2
935	ZZZZ	-176.55	67.98	Russia	TS1
949	ZZZZ	-102.01	54.17	Canada	TS2
953	ZZZZ	-56.63	-2.26	Brazil	CA
961	ZZZZ	18.21	65.74	Sweden	TS1

970	ZZZZ	117.07	30.83	China	EX
976	ZZZZ	-118.32	63.09	Canada	CA
981	ZZZZ	-117.49	64.17	Canada	CA
992	ZZZZ	34.14	62.38	Russia	CA
994	ZZZZ	-102.00	56.28	Canada	CA
995	ZZZZ	-48.80	-28.37	Brazil	TS1
1000	ZZZZ	-72.26	54.32	Canada	CA
1009	ZZZZ	-85.20	52.31	Canada	TS2
1035	ZZZZ	73.77	53.43	Kazakhstan	TS1
1058	ZZZZ	-111.46	58.62	Canada	CA
1060	ZZZZ	-74.55	10.82	Colombia	TS1
1063	ZZZZ	117.93	49.07	China	CA
1067	ZZZZ	-97.32	60.40	Canada	CA
1069	ZZZZ	-106.37	63.31	Canada	TS1
1087	ZZZZ	143.23	46.77	Russia	TS1
1093	ZZZZ	-104.86	60.27	Canada	CA
1097	ZZZZ	-68.76	-35.05	Argentina	EX
1099	ZZZZ	-50.06	65.13	Greenland	EX
1111	ZZZZ	-67.10	-18.11	Bolivia	EX
1139	ZZZZ	85.23	66.83	Russia	CA
1156	ZZZZ	-104.37	58.14	Canada	CA
1160	ZZZZ	-92.57	54.39	Canada	CA
1189	ZZZZ	-55.99	48.06	Canada	CA
1190	ZZZZ	-54.31	-2.29	Brazil	TS2
1192	ZZZZ	89.97	32.46	China	CA
1202	ZZZZ	-97.69	66.31	Canada	CA
1203	ZZZZ	45.22	39.20	Iran; Azerbaijan	EX
1206	ZZZZ	116.87	34.97	China	CA
1208	ZZZZ	140.04	53.43	Russia	TS1
1225	ZZZZ	-104.59	69.78	Canada	EX
1237	ZZZZ	-93.49	53.15	Canada	CA
1250	ZZZZ	38.51	59.65	Russia	CA
1258	ZZZZ	-63.26	55.89	Canada	CA
1262	ZZZZ	-97.71	65.62	Canada	EX
1263	ZZZZ	-103.38	66.44	Canada	CA
1268	ZZZZ	-83.37	14.82	Nicaragua	TS2
1274	ZZZZ	-91.22	65.89	Canada	CA
1279	ZZZZ	-106.86	64.33	Canada	CA
1282	ZZZZ	-56.00	-1.81	Brazil	CA
1291	ZZZZ	-116.71	68.26	Canada	CA
1293	ZZZZ	45.02	34.20	Iraq	CA
1294	ZZZZ	93.44	48.90	Mongolia	TS2
1297	ZZZZ	-175.16	67.40	Russia	TS1
1306	ZZZZ	84.78	30.22	China	CA
1318	ZZZZ	-75.44	69.56	Canada	EX
1319	ZZZZ	34.90	61.11	Russia	CA
1326	ZZZZ	-96.91	62.91	Canada	CA
1333	ZZZZ	-97.07	58.11	Canada	EX
1338	ZZZZ	-100.02	63.29	Canada	EX
1362	ZZZZ	78.02	53.33	Russia	CA
1363	ZZZZ	-102.26	62.30	Canada	CA
1366	ZZZZ	-100.05	65.51	Canada	EX
1385	ZZZZ	63.66	49.01	Kazakhstan	CA

1393	ZZZZ	-167.06	65.92	United States	TS1
1398	ZZZZ	99.63	74.38	Russia	TS1
1409	ZZZZ	142.53	-32.27	Australia	CA
1435	ZZZZ	-107.74	56.89	Canada	CA
1437	ZZZZ	-83.93	15.28	Honduras	TS2
1440	ZZZZ	17.66	67.67	Sweden	CA
1453	ZZZZ	-99.61	65.26	Canada	CA
1458	ZZZZ	137.34	50.28	Russia	CA
1463	ZZZZ	-102.27	65.10	Canada	CA
1472	ZZZZ	179.00	69.30	Russia	CA
1475	ZZZZ	-83.32	14.33	Nicaragua	CA
1481	ZZZZ	-120.00	64.03	Canada	CA
1482	ZZZZ	46.67	30.71	Iraq	CA
1484	ZZZZ	-111.20	69.21	Canada	EX
1495	ZZZZ	-60.28	-3.48	Brazil	CA
1504	ZZZZ	115.33	29.29	China	CA
1510	ZZZZ	-104.04	51.91	Canada	TS1
1515	ZZZZ	-95.43	65.17	Canada	EX
1523	ZZZZ	-126.27	65.41	Canada	EX
1524	ZZZZ	-110.45	56.51	Canada	TS2
1525	ZZZZ	-109.40	69.73	Canada	EX
1528	ZZZZ	-154.40	57.11	United States	EX
1534	ZZZZ	84.97	31.22	China	TS1
1535	ZZZZ	-55.51	-2.15	Brazil	CA
1539	ZZZZ	-105.68	69.26	Canada	CA
1540	ZZZZ	-127.06	67.55	Canada	CA
1552	ZZZZ	-93.03	54.15	Canada	TS2
1560	ZZZZ	-59.70	-3.15	Brazil	CA
1566	ZZZZ	-84.58	15.81	Honduras	TS2
1571	ZZZZ	26.60	63.29	Finland	CA
1572	ZZZZ	-104.39	62.80	Canada	CA
1573	ZZZZ	155.08	68.38	Russia	TS1
1578	ZZZZ	-96.27	65.22	Canada	EX
1594	ZZZZ	-102.78	54.36	Canada	TS2
1607	ZZZZ	-68.06	66.28	Canada	CA
1608	ZZZZ	38.19	45.82	Russia	CA
1613	ZZZZ	154.93	68.18	Russia	CA
1615	ZZZZ	30.54	63.57	Russia	CA
1621	ZZZZ	-117.00	67.38	Canada	EX
1632	ZZZZ	28.15	59.28	Russia; Estonia	CA
1637	ZZZZ	151.75	68.56	Russia	CA
1652	ZZZZ	85.72	29.85	China	CA
1654	ZZZZ	-97.54	62.16	Canada	EX
1664	ZZZZ	-102.99	65.02	Canada	EX
1666	ZZZZ	-131.79	67.69	Canada	TS2
1683	ZZZZ	-71.96	65.53	Canada	CA
1685	ZZZZ	-92.92	69.94	Canada	EX
1698	ZZZZ	-113.24	67.28	Canada	EX
1712	ZZZZ	-98.54	59.21	Canada	CA
1713	ZZZZ	-91.94	52.96	Canada	CA
1727	ZZZZ	-69.10	54.52	Canada	CA
1728	ZZZZ	-106.40	70.29	Canada	EX
1730	ZZZZ	89.68	30.94	China	CA

1734	ZZZZ	147.16	71.01	Russia	CA
1737	ZZZZ	-101.90	58.39	Canada	CA
1750	ZZZZ	-172.44	65.23	Russia	CA
1752	ZZZZ	-55.63	-2.11	Brazil	CA
1759	ZZZZ	-111.74	68.88	Canada	CA
1769	ZZZZ	-164.99	66.46	United States	CA
1784	ZZZZ	-103.84	56.53	Canada	CA
1785	ZZZZ	93.92	37.49	China	EX
1788	ZZZZ	27.90	64.20	Finland	CA
1793	ZZZZ	60.89	50.75	Russia	TS2
1795	ZZZZ	-92.43	67.82	Canada	CA
1802	ZZZZ	-60.47	-31.37	Argentina	CA
1812	ZZZZ	90.63	35.93	China	CA
1826	ZZZZ	-68.79	66.68	Canada	TS1
1835	ZZZZ	93.38	37.71	China	EX
1845	ZZZZ	-98.00	60.82	Canada	CA
1847	ZZZZ	-94.01	71.57	Canada	CA
1848	ZZZZ	-73.24	68.53	Canada	EX
1850	ZZZZ	-106.35	61.82	Canada	CA
1864	ZZZZ	-95.72	62.08	Canada	CA
1872	ZZZZ	-66.97	-14.01	Bolivia	TS1
1876	ZZZZ	90.06	33.41	China	TS1
1879	ZZZZ	92.06	73.87	Russia	EX
1883	ZZZZ	-93.95	66.50	Canada	CA
1897	ZZZZ	-97.73	62.00	Canada	CA
1907	ZZZZ	66.18	65.76	Russia	CA
1908	ZZZZ	-107.39	54.46	Canada	TS1
1917	ZZZZ	89.43	35.80	China	CA
1927	ZZZZ	80.06	71.02	Russia	CA
1928	ZZZZ	82.72	35.56	China	CA
1933	ZZZZ	-117.18	64.50	Canada	CA
1951	ZZZZ	-65.79	-13.15	Bolivia	TS1
1954	ZZZZ	-57.78	-17.52	Brazil; Bolivia	TS2
1955	ZZZZ	-62.68	-3.67	Brazil	EX
1965	ZZZZ	37.96	68.11	Russia	CA
1966	ZZZZ	-103.88	62.19	Canada	CA
1967	ZZZZ	85.75	34.39	China	TS1
1985	ZZZZ	83.68	67.07	Russia	EX
1989	ZZZZ	-98.49	51.05	Canada	CA
1993	ZZZZ	119.45	36.43	China	CA
2000	ZZZZ	-74.06	53.39	Canada	CA
2009	ZZZZ	-108.51	69.29	Canada	CA
2013	ZZZZ	27.21	66.09	Finland	CA
2015	ZZZZ	-50.37	-29.93	Brazil	TS2
2021	ZZZZ	-96.66	54.49	Canada	CA
2022	ZZZZ	-104.67	63.17	Canada	CA
2026	ZZZZ	105.72	74.49	Russia	TS2
2027	ZZZZ	40.72	57.92	Russia	CA
2048	ZZZZ	88.58	33.85	China	TS1
2055	ZZZZ	-110.52	68.91	Canada	CA
2057	ZZZZ	77.41	53.27	Kazakhstan	EX
2058	ZZZZ	-103.19	66.76	Canada	EX
2064	ZZZZ	-99.51	52.82	Canada	CA

2071	ZZZZ	-9.35	53.62	Ireland	CA
2076	ZZZZ	-95.30	63.51	Canada	EX
2077	ZZZZ	176.03	69.81	Russia	TS1
2084	ZZZZ	83.59	67.18	Russia	CA
2085	ZZZZ	116.35	28.75	China	CA
2087	ZZZZ	-125.84	66.31	Canada	CA
2092	ZZZZ	-53.90	-34.33	Uruguay	TS1
2097	ZZZZ	-93.53	50.75	Canada	CA
2102	ZZZZ	-100.63	54.03	Canada	CA
2104	ZZZZ	112.49	29.21	China	CA
2107	ZZZZ	138.39	70.84	Russia	CA
2109	ZZZZ	-127.40	66.17	Canada	CA
2111	ZZZZ	-74.06	9.15	Colombia	CA
2112	ZZZZ	-54.70	-2.20	Brazil	TS2
2113	ZZZZ	64.54	54.13	Kazakhstan	CA
2117	ZZZZ	-116.57	62.07	Canada	CA
2119	ZZZZ	-76.16	50.91	Canada	CA
2120	ZZZZ	-105.18	69.75	Canada	EX
2127	ZZZZ	124.13	46.61	China	CA
2129	ZZZZ	28.43	45.43	Ukraine; Moldova	TS2
2130	ZZZZ	-126.09	68.64	Canada	TS1
2132	ZZZZ	-90.15	41.99	United States	CA
2138	ZZZZ	91.19	33.89	China	CA
2142	ZZZZ	-71.95	65.70	Canada	TS1
2145	ZZZZ	-174.66	64.83	Russia	CA
2150	ZZZZ	72.09	53.89	Kazakhstan	CA
2158	ZZZZ	32.95	63.47	Russia	CA
2162	ZZZZ	-114.01	52.54	Canada	CA
2167	ZZZZ	26.88	56.77	Latvia	CA
2172	ZZZZ	-67.72	56.26	Canada	CA
2179	ZZZZ	-94.16	55.04	Canada	CA
2184	ZZZZ	-96.47	66.46	Canada	EX
2185	ZZZZ	90.16	54.67	Russia	CA
2192	ZZZZ	-112.92	52.48	Canada	TS1
2199	ZZZZ	-50.75	66.72	Greenland	EX
2228	ZZZZ	-72.47	-52.04	Chile	CA
2232	ZZZZ	146.09	-36.45	Australia	EX
2239	ZZZZ	78.49	54.55	Russia	CA
2243	ZZZZ	-55.81	-1.90	Brazil	CA
2245	ZZZZ	-100.74	49.66	Canada	CA
2246	ZZZZ	163.78	59.99	Russia	CA
2247	ZZZZ	67.40	66.77	Russia	EX
2249	ZZZZ	-106.42	72.07	Canada	CA
2257	ZZZZ	78.88	70.93	Russia	EX
2259	ZZZZ	-111.70	58.77	Canada	CA
2262	ZZZZ	-136.96	60.45	Canada	CA
2263	ZZZZ	-108.33	55.55	Canada	CA
2273	ZZZZ	152.30	68.58	Russia	CA
2276	ZZZZ	-121.13	59.08	Canada	CA
2280	ZZZZ	-56.79	-28.07	Argentina	TS2
2292	ZZZZ	29.72	65.94	Finland	CA
2297	ZZZZ	-91.54	52.58	Canada	CA
2303	ZZZZ	-107.16	59.17	Canada	CA

2304	ZZZZ	84.64	35.42	China	CA
2305	ZZZZ	83.11	35.29	China	TS1
2310	ZZZZ	-66.60	57.48	Canada	CA
2314	ZZZZ	115.58	49.52	Mongolia	CA
2315	ZZZZ	117.38	38.74	China	CA
2316	ZZZZ	114.23	33.02	China	TS1
2323	ZZZZ	-114.66	56.63	Canada	TS1
2325	ZZZZ	-109.08	65.04	Canada	CA
2326	ZZZZ	-115.38	53.65	Canada	CA
2329	ZZZZ	179.07	62.48	Russia	TS1
2330	ZZZZ	-99.68	54.47	Canada	CA
2331	ZZZZ	66.90	58.92	Russia	CA
2346	ZZZZ	-73.15	69.64	Canada	EX
2348	ZZZZ	-107.22	66.27	Canada	EX
2351	ZZZZ	-114.67	60.23	Canada	EX
2357	ZZZZ	107.75	74.45	Russia	EX
2360	ZZZZ	34.12	67.03	Russia	CA
2361	ZZZZ	87.00	33.86	China	EX
2364	ZZZZ	-2.75	31.57	Algeria	EX
2365	ZZZZ	47.63	31.60	Iraq	TS1
2367	ZZZZ	-96.42	56.26	Canada	EX
2368	ZZZZ	-104.11	54.43	Canada	CA
2369	ZZZZ	-93.43	30.00	United States	CA
2371	ZZZZ	-144.32	60.30	United States	EX
2376	ZZZZ	146.66	71.15	Russia	CA
2384	ZZZZ	-107.86	71.44	Canada	CA
2386	ZZZZ	81.89	34.73	China	CA
2388	ZZZZ	46.91	48.21	Russia	EX
2397	ZZZZ	-49.55	62.52	Greenland	EX
2408	ZZZZ	33.51	45.21	Ukraine	CA
2415	ZZZZ	91.86	35.32	China	CA
2418	ZZZZ	-108.61	53.61	Canada	CA
2419	ZZZZ	-166.09	65.24	United States	CA
2420	ZZZZ	-108.46	54.48	Canada	CA
2421	ZZZZ	-99.41	52.42	Canada	CA
2425	ZZZZ	26.77	54.86	Belarus	TS1
2427	ZZZZ	-3.70	16.27	Mali	EX
2428	ZZZZ	34.30	64.11	Russia	EX
2435	ZZZZ	79.09	64.50	Russia	CA
2436	ZZZZ	-105.97	54.48	Canada	CA
2447	ZZZZ	-115.41	58.96	Canada	CA
2448	ZZZZ	-107.53	71.05	Canada	EX
2450	ZZZZ	-95.26	60.60	Canada	CA
2458	ZZZZ	32.99	61.78	Russia	CA
2464	ZZZZ	37.32	60.88	Russia	CA
2466	ZZZZ	-106.41	59.71	Canada	CA
2470	ZZZZ	-111.08	58.39	Canada	TS1
2473	ZZZZ	16.75	60.57	Sweden	CA
2475	ZZZZ	88.78	36.01	China	EX
2477	ZZZZ	-139.82	62.35	Canada	CA
2483	ZZZZ	100.16	75.12	Russia	CA
2485	ZZZZ	-125.95	67.39	Canada	CA
2486	ZZZZ	-97.43	27.85	United States	TS2

2493	ZZZZ	35.18	63.96	Russia	CA
2495	ZZZZ	-118.92	63.20	Canada	CA
2497	ZZZZ	65.71	59.70	Russia	CA
2503	ZZZZ	25.93	61.21	Finland	CA
2507	ZZZZ	68.39	50.14	Kazakhstan	CA
2511	ZZZZ	89.72	33.63	China	CA
2513	ZZZZ	-96.83	57.84	Canada	CA
2518	ZZZZ	-72.33	-51.90	Chile	CA
2525	ZZZZ	97.58	79.42	Russia	EX
2526	ZZZZ	24.21	69.66	Norway	CA
2528	ZZZZ	160.18	69.39	Russia	CA
2532	ZZZZ	8.22	56.37	Denmark	EX
2535	ZZZZ	124.24	67.79	Russia	CA
2540	ZZZZ	-22.11	80.17	Greenland	EX
2541	ZZZZ	-131.66	60.65	Canada	CA
2544	ZZZZ	-104.97	52.50	Canada	CA
2550	ZZZZ	-74.71	9.72	Colombia	CA
2554	ZZZZ	17.41	54.71	Poland	CA
2557	ZZZZ	-103.90	69.67	Canada	CA
2558	ZZZZ	137.60	34.75	Japan	CA
2560	ZZZZ	-107.55	53.42	Canada	CA
2569	ZZZZ	88.17	31.99	China	CA
2570	ZZZZ	-72.98	64.88	Canada	CA
2574	ZZZZ	100.21	72.31	Russia	TS1
2594	ZZZZ	-108.40	53.07	Canada	CA
2595	ZZZZ	-106.25	53.96	Canada	CA
2601	ZZZZ	-99.15	72.07	Canada	CA
2602	ZZZZ	149.67	68.31	Russia	TS1
2605	ZZZZ	-111.91	61.58	Canada	CA
2611	ZZZZ	91.47	31.30	China	CA
2613	ZZZZ	87.25	34.57	China	EX
2623	ZZZZ	-98.48	63.15	Canada	CA
2631	ZZZZ	-114.89	71.44	Canada	EX
2639	ZZZZ	87.67	70.20	Russia	CA
2641	ZZZZ	-84.13	15.62	Honduras	CA
2649	ZZZZ	115.68	29.78	China	EX
2656	ZZZZ	-122.23	62.94	Canada	CA
2663	ZZZZ	96.55	49.15	Mongolia	EX
2665	ZZZZ	-65.82	52.61	Canada	CA
2672	ZZZZ	-93.28	69.63	Canada	EX
2673	ZZZZ	-95.68	49.24	Canada	CA
2676	ZZZZ	-110.18	69.58	Canada	EX
2677	ZZZZ	88.73	71.90	Russia	EX
2678	ZZZZ	29.45	61.53	Finland; Russia	EX
2682	ZZZZ	91.85	49.10	Mongolia	EX
2684	ZZZZ	119.96	-4.11	Indonesia	CA
2685	ZZZZ	-113.95	62.86	Canada	CA
2693	ZZZZ	-89.05	13.67	El Salvador	TS1
2695	ZZZZ	155.89	67.86	Russia	TS1
2696	ZZZZ	78.61	52.87	Russia	CA
2697	ZZZZ	-87.93	66.51	Canada	EX
2701	ZZZZ	87.49	40.56	China	EX
2709	ZZZZ	-108.51	55.10	Canada	CA

2714	ZZZZ	-87.73	70.83	Canada	CA
2719	ZZZZ	17.49	67.99	Sweden; Norway	EX
2720	ZZZZ	85.81	33.67	China	EX
2724	ZZZZ	-78.63	22.22	Cuba	CA
2725	ZZZZ	140.53	51.86	Russia	CA
2728	ZZZZ	-18.89	64.27	Iceland	CA
2731	ZZZZ	-110.69	54.15	Canada	CA
2735	ZZZZ	-116.39	64.53	Canada	EX
2750	ZZZZ	145.40	69.15	Russia	TS1
2752	ZZZZ	-70.07	56.47	Canada	EX
2762	ZZZZ	-60.87	-32.08	Argentina	TS2
2763	ZZZZ	151.62	70.84	Russia	CA
2775	ZZZZ	33.13	63.19	Russia	CA
2779	ZZZZ	-74.36	8.72	Colombia	EX
2786	ZZZZ	91.36	35.70	China	EX
2789	ZZZZ	-118.12	73.07	Canada	EX
2794	ZZZZ	69.23	50.02	Kazakhstan	EX
2796	ZZZZ	33.23	64.34	Russia	EX
2797	ZZZZ	-95.33	63.77	Canada	CA
2798	ZZZZ	15.66	60.53	Sweden	CA
2803	ZZZZ	28.99	45.50	Ukraine	CA
2806	ZZZZ	-113.00	64.86	Canada	CA
2809	ZZZZ	-126.61	68.12	Canada	EX
2816	ZZZZ	33.13	68.26	Russia	EX
2819	ZZZZ	92.21	34.81	China	CA
2822	ZZZZ	-63.88	55.56	Canada	EX
2823	ZZZZ	-117.65	64.82	Canada	EX
2828	ZZZZ	-52.45	67.61	Greenland	EX
2839	ZZZZ	119.40	32.62	China	CA
2840	ZZZZ	68.69	50.13	Kazakhstan	CA
2851	ZZZZ	-69.44	64.14	Canada	CA
2857	ZZZZ	-113.97	71.46	Canada	CA
2865	ZZZZ	-103.28	62.28	Canada	EX
2872	ZZZZ	-118.69	73.05	Canada	CA
2877	ZZZZ	86.75	35.13	China	CA
2880	ZZZZ	50.18	67.25	Russia	CA
2881	ZZZZ	91.57	34.34	China	EX
2883	ZZZZ	-102.70	67.41	Canada	CA
2914	ZZZZ	-84.81	15.87	Honduras	TS2
2923	ZZZZ	67.65	26.42	Pakistan	TS1
2925	ZZZZ	24.78	63.53	Finland	CA
2926	ZZZZ	112.25	54.83	Russia	CA
2927	ZZZZ	15.74	41.88	Italy	TS2
2937	ZZZZ	-94.15	69.78	Canada	EX
2940	ZZZZ	66.34	59.63	Russia	CA
2944	ZZZZ	-107.15	52.68	Canada	CA
2946	ZZZZ	91.51	31.47	China	CA
2960	ZZZZ	-132.93	67.98	Canada	CA
2961	ZZZZ	37.50	45.28	Russia	CA
2962	ZZZZ	178.95	63.32	Russia	CA
2970	ZZZZ	-111.94	50.44	Canada	EX
2972	ZZZZ	-80.01	72.22	Canada	EX
2974	ZZZZ	-101.04	53.64	Canada	CA

2976	ZZZZ	176.74	62.56	Russia	CA
2984	ZZZZ	152.13	68.68	Russia	TS1
2985	ZZZZ	31.26	56.24	Russia	CA
2986	ZZZZ	-88.86	66.77	Canada	EX
2996	ZZZZ	54.14	37.33	Iran; Turkmenistan	CA
2999	ZZZZ	71.42	63.54	Russia	CA
3002	ZZZZ	-133.66	68.95	Canada	CA
3007	ZZZZ	-75.07	8.36	Colombia	CA
3020	ZZZZ	96.91	37.28	China	CA
3022	ZZZZ	30.98	66.51	Russia	EX
3025	ZZZZ	-1.10	45.14	France	EX
3031	ZZZZ	38.20	66.42	Russia	CA
3034	ZZZZ	-107.90	69.62	Canada	EX
3040	ZZZZ	-99.37	52.87	Canada	CA
3044	ZZZZ	86.72	32.96	China	CA
3045	ZZZZ	87.37	35.97	China	EX
3049	ZZZZ	-97.38	66.89	Canada	EX
3053	ZZZZ	-71.14	-16.37	Peru	EX
3054	ZZZZ	156.08	69.46	Russia	EX
3055	ZZZZ	73.09	61.99	Russia	CA
3078	ZZZZ	88.70	32.98	China	CA
3079	ZZZZ	-110.03	56.32	Canada	CA
3091	ZZZZ	154.89	68.51	Russia	CA
3095	ZZZZ	149.42	71.98	Russia	EX
3096	ZZZZ	-97.98	72.18	Canada	EX
3097	ZZZZ	34.45	57.57	Russia	CA
3102	ZZZZ	67.92	60.74	Russia	CA
3105	ZZZZ	-107.31	70.95	Canada	EX
3108	ZZZZ	146.92	71.08	Russia	TS1
3111	ZZZZ	81.94	34.44	China	EX
3128	ZZZZ	-108.72	71.56	Canada	EX
3129	ZZZZ	-128.43	66.89	Canada	CA
3132	ZZZZ	-74.71	9.62	Colombia	CA
3133	ZZZZ	-123.98	66.66	Canada	CA
3135	ZZZZ	-98.55	55.55	Canada	CA
3139	ZZZZ	72.43	68.71	Russia	CA
3150	ZZZZ	-69.39	-53.96	Chile	CA
3156	ZZZZ	86.66	35.73	China	EX
3166	ZZZZ	-116.23	64.42	Canada	EX
3168	ZZZZ	-115.53	71.69	Canada	CA
3171	ZZZZ	-166.48	68.39	United States	CA
3173	ZZZZ	151.86	67.86	Russia	CA
3180	ZZZZ	-132.05	69.10	Canada	CA
3181	ZZZZ	-93.22	55.55	Canada	CA
3188	ZZZZ	-114.40	53.70	Canada	CA
3189	ZZZZ	139.98	-37.42	Australia	CA
3191	ZZZZ	140.89	40.46	Japan	CA
3196	ZZZZ	-1.14	44.48	France	CA
3200	ZZZZ	65.57	38.37	Uzbekistan	CA
3201	ZZZZ	88.36	35.41	China	CA
3202	ZZZZ	-91.60	52.48	Canada	CA
3203	ZZZZ	124.09	46.79	China	CA
3208	ZZZZ	48.87	38.93	Azerbaijan	CA

3210	ZZZZ	88.92	72.97	Russia	CA
3211	ZZZZ	-50.61	70.11	Greenland	EX
3213	ZZZZ	97.64	73.67	Russia	TS1
3218	ZZZZ	-61.48	-33.71	Argentina	TS2
3219	ZZZZ	-50.27	65.58	Greenland	EX
3231	ZZZZ	-110.34	53.91	Canada	CA
3233	ZZZZ	-115.88	65.05	Canada	EX
3243	ZZZZ	-106.46	54.08	Canada	TS1
3244	ZZZZ	61.56	50.97	Kazakhstan	CA
3257	ZZZZ	38.11	61.72	Russia	CA
3258	ZZZZ	69.07	42.74	Kazakhstan	CA
3259	ZZZZ	-120.74	68.72	Canada	CA
3260	ZZZZ	-49.97	66.25	Greenland	EX
3268	ZZZZ	-3.82	15.31	Mali	CA
3269	ZZZZ	56.22	74.16	Russia	EX
3272	ZZZZ	16.59	66.96	Sweden	EX
3275	ZZZZ	-108.51	71.19	Canada	EX
3276	ZZZZ	111.64	52.66	Russia	CA
3278	ZZZZ	-75.28	60.34	Canada	EX
3281	ZZZZ	14.56	61.08	Sweden	CA
3283	ZZZZ	-52.07	-31.61	Brazil	TS2
3292	ZZZZ	79.03	64.14	Russia	CA
3295	ZZZZ	72.23	69.25	Russia	CA
3307	ZZZZ	12.23	42.12	Italy	CA
3312	ZZZZ	137.76	71.04	Russia	CA
3334	ZZZZ	24.38	66.60	Finland	CA
3343	ZZZZ	88.19	32.90	China	CA
3347	ZZZZ	61.58	54.58	Russia	CA
3350	ZZZZ	14.65	53.47	Poland	CA
3365	ZZZZ	112.87	52.21	Russia	TS1
3368	ZZZZ	155.69	69.43	Russia	CA
3369	ZZZZ	88.39	72.71	Russia	CA
3372	ZZZZ	158.65	69.93	Russia	CA
3373	ZZZZ	42.42	11.65	Djibouti	TS1
3375	ZZZZ	75.92	70.73	Russia	CA
3379	ZZZZ	27.43	56.33	Latvia	CA
3391	ZZZZ	-128.93	66.99	Canada	EX
3392	ZZZZ	-91.69	52.95	Canada	CA
3394	ZZZZ	86.74	31.56	China	EX
3397	ZZZZ	-77.90	48.13	Canada	CA
3398	ZZZZ	154.54	67.71	Russia	CA
3400	ZZZZ	-92.23	54.52	Canada	CA
3403	ZZZZ	-97.70	69.46	Canada	EX
3415	ZZZZ	-117.12	63.76	Canada	CA
3421	ZZZZ	65.59	52.60	Kazakhstan	CA
3427	ZZZZ	64.39	65.68	Russia	CA
3430	ZZZZ	-85.03	49.43	Canada	CA
3431	ZZZZ	-117.40	70.72	Canada	CA
3441	ZZZZ	-117.95	62.62	Canada	EX
3443	ZZZZ	70.52	69.86	Russia	CA
3446	ZZZZ	-129.98	69.58	Canada	TS1
3448	ZZZZ	-110.78	69.42	Canada	EX
3453	ZZZZ	161.82	56.14	Russia	CA

3471	ZZZZ	-60.73	-29.63	Argentina	CA
3476	ZZZZ	125.82	43.88	China	CA
3478	ZZZZ	147.17	-42.11	Australia	CA
3480	ZZZZ	-97.20	56.10	Canada	CA
3483	ZZZZ	59.01	68.74	Russia	CA
3491	ZZZZ	-161.77	60.49	United States	CA
3494	ZZZZ	-105.40	70.20	Canada	EX
3500	ZZZZ	77.77	52.31	Kazakhstan	CA
3508	ZZZZ	179.76	69.03	Russia	EX
3510	ZZZZ	-108.59	70.45	Canada	EX
3523	ZZZZ	-85.60	51.47	Canada	CA
3524	ZZZZ	-163.59	67.15	United States	CA
3529	ZZZZ	-125.36	65.22	Canada	CA
3531	ZZZZ	26.53	61.00	Finland	CA
3534	ZZZZ	86.49	33.95	China	EX
3536	ZZZZ	70.94	69.75	Russia	CA
3539	ZZZZ	87.84	32.79	China	EX
3544	ZZZZ	-106.81	71.22	Canada	EX
3548	ZZZZ	-92.73	66.12	Canada	EX
3557	ZZZZ	-163.96	60.12	United States	CA
3562	ZZZZ	174.80	61.94	Russia	CA
3568	ZZZZ	-117.78	65.06	Canada	CA
3570	ZZZZ	-95.39	54.56	Canada	CA
3575	ZZZZ	47.43	30.78	Iraq	CA
3587	ZZZZ	-117.72	56.24	Canada	CA
3589	ZZZZ	-119.38	62.32	Canada	EX
3604	ZZZZ	-105.26	52.61	Canada	CA
3605	ZZZZ	70.15	69.16	Russia	CA
3614	ZZZZ	-100.67	27.49	Mexico	CA

Table 30. Alphabetical list of target water bodies for v3 ARC-Lake and their corresponding target IDs. Longitude values are given in degrees east. Latitude values are given in degrees north. Where more than one country is listed, the country in which the largest fraction of the lake lies is listed first. Where name is given as "ZZZZ", no name information is present in the GLWD. "Data Quality" indicates the type of data product available from reconstructions (see MacCallum and Merchant (2013) for details): TS2 = time-series available for ATSR2 and AATSR, TS1 = time-series available for only one ATSR, CA = only climatology available, EX = Excluded (too few observations to derive EOF-based reconstruction).