

Open Databases

Data type	Name of Data set	Provider/Reference
Topography and routing	"GWD-LR v1.2 [3arcsec] -Flow direction -Upstream area -River width	Yamazaki et al., 2014
	SRTM - Digital Elevation Database [3 arcsec}	U.S. Geological Survey
	HYDRO1K [30 arcsec]	U.S. Geological Survey
	Greenland Ice Mapping Project, GIMP[90m]	Howat et al, 2015
	IMO basin polygons	Veðurstofu Íslanda, 2016
	Non- contributing Drainage areas AAFC Watersheds project - 2013	Government Canada
Waterbodies	Global Lakes & Wetland Database, GLWD	Lehner & Döll, 2004
	Global reservoir and Dam Database, GRanD v1.1	Lehner et al. 2011
	ESA CCI waterbodies [150m] v4.0	ESA Climate Change Initiative - Land Cover project 2014
	GWD-LR v1.2	Yamazaki et al, 2014
LakeDepths	Global Lake Data base v2	Kourzeneva, 2009
Forcing Data	Hydro-GFD 2.0	Berg et al., 2018

Data type	Name of Data set	Provider/Reference
Land cover, irrigation and crop type	ESA CCI Land Cover, epoch 2010, v 1.6.1 [300m]	ESA Climate Change Initiative - Land Cover project 2014
	MIRCA2000	Arendt et al., 2015
	Global Map of Irrigation Areas, GMIA	Seibert et al., 2013
	Randolph Glacier Inventory, RGI v 5.0	Arendt et al., 2015
	Greenland Glacier Inventory	Rastner et al, 2012
Discharge and catchment area	Global Runoff Data Base, GRDB	The Global Runoff Data Centre, GRDC
	European Water Archive, EWA	The Global Runoff Data Centre, GRDC
	R-ArcticNet v 4.0	University of New Hampshire, UNH
	RIVDIS v1.1	Vörösmarty et al., 1998
	USGS-NWIS, national data	U.S. Geological Survey
	HYDAT, national data	WSC (Water Survey of Canada)
	Chinese Hydrology Data Project, CHDP	Henck et al., 2011
	Spain, national data	Spanish authorities
	RESEAU HYDRO, Congo	CICOS (International Commission for Congo-Ubangui-Sangha Basin)
	WISKI	SMHI

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	ds553.2 Russian River Data	Byron Bodo, 2000
Catchment area	SIEREM	Boyer et al., 2006
	La Plata basin regional data	CLARIS-project
	CWC handbook	Central Water Commission, CWC
	Hydrologic Reference Stations, national data	BOM (Bureau of Meteorology)
	Red Hidrometrica SNHN 2013	Servicio Nacional de Hidrografia Naval
	Estacoes Fluviometrica	ANA (Agencia Nacional de Aguas)
	Red Hidrometrica	DGA (Direccion General de Aguas)
	Catalogo Nacional de Estaciones de Monitoreo Ambiental	IDEAM (Instituto de Hidrologia, Meteorologia y Estudios Ambientales)
	Estaciones Hidrologicas	Instituto Nacional de Meteorologia e Hidrologia
	Peru, national data	SENAMHI (Servicio Nacional de Meteorologia e Hidologia del Peru)
	Venezuela, national data	IGVSB (Instituto Geográfico de Venezuela Simon Bolivar)
	Conabio 2008	Instituto Mexicano de Tecnología del Agua/CONABIO
	Niger HYCOS	ABN
South Africa, national data	Department Water & Sanitation, Republic of South Africa	

Data type	Name of Data set	Provider/Reference
	Mauritius, national data	Mauritius Ministry of Energy and Public Utilities
Model performance World-wide HYPE v1.3.1 - 1981-2012		
Monthly discharge	Calibration	Validation
No. of gauging stations*	2475	2863
KGE	0.415	0.394
RE	-14.82	-14.95
CC	0.757	0.757
NSE	0.207	0.149

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<p>* The stations used for calibration and validation have a minimum of 10 years of observations within the period 1981-2012. They also have less than 10 % relative difference between the modelled and published catchment area.</p>		