



SIEREM: Information system of long-term historical data recorded in Africa.

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South America Water from Space Conference 26-28 March, Santiago, Chile

DATA SET SI EREM

1. General inventory of Environnemental Information System SIEREM

Source : *L'hydrologie tropicale: géoscience et outil pour le développement* IAHS Publ. no. 238, 1996

Number of time series for CONGO watershed

Variable	Number of time series
Discharge	79
Evaporation panche measured	15
Water level	67
Vapour pressure	36
Atmospheric pressure	18
Relative humidity	19
Insolation	5
Rainfall	1088
Temperature	73
Wind speed	6

[Back to basin list](#)

SIEREM *Système d'Informations Environnementales sur les Ressources en Eau et leur Modélisation*

Watershed : **Nyong**

Stations with chronological series of Debit expressed in m3/s

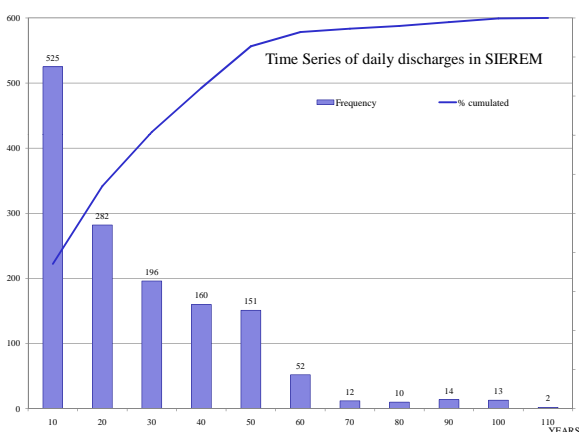
 HydroSciences
Montpellier

Code	Name	Latitude	Longitude
1056001005	LORDOFI	3,2333	10,7333
1056000106	AKONOLINGA	3,7833	12,25
1056000109	AYOS	3,5667	12,5167
1056000112	DEHANE	3,5667	10,1167
1056000115	SEKA	3,6833	10,7
1056000118	KAYA	3,8667	11,0917
1056000121	M'BALMAYO	3,5167	11,5
1056000127	OLAMA	3,4333	11,2833
1056002003	TOA	2,7667	11,4833
1056002009	NSIMALEN	3,7333	11,5333
1056099131	MBALA	3,8472	11,5164
1056099131	STATION 3 - SIBAKON - PRINCIPALE	3,6708	11,2494
1056099132	STATION 1 - SIBEKON ou SIBAKON	3,6683	11,2942
1056099133	STATION 2 - SIBONDA ou BIDANDA	3,6811	11,2906

Metadata of discharges stations

Stations : 1 14 / 14

Different Type of data can be managed : discharges, water level, rainfall, temperature, humidity



Number of stations with data in West and East Africa in 22 countries

Legend:
 ■ 1072 Discharges
 ■ 2835 Daily Rainfall
 ■ 2664 Monthly rainfall

Country	1072 Discharges	2835 Daily Rainfall	2664 Monthly rainfall
ANGOLA	1	0	80
BURKINA FASO	80	62	165
BEIN	3	0	120
CONGO, REP OF	60	48	125
REP. CENTRALEAFR	251	265	205
CONGO	86	42	385
COTE D'IVOIRE	47	0	310
GABON	77	0	135
GHANA	5	9	40
GUINEA	5	0	35
GUINEA-BISSAU	9	0	35
LIBERIA	49	10	340
MAURITANIA	10	28	340
MAURITIA	28	6	195
NIGER	6	24	115
SERRA LEEONE	24	0	25
SIERRA LEEONE	53	64	165
SENEGAL	64	61	150
TOGO	61	0	150

3. Catchment basins – Photos – Book Map Library

SIEREM has also been enriched with data recovered from historical hydrological archives. More than **1,342 photos** have been brought together in 391 geo-referenced albums.

<http://www.hydrosciences.fr/sierem/produits/index.asp?frame=datasig>

RESULTS

Annual rainfall map of Africa

Map of the density stations
of the SIEREM data base

SIEREM produces kml files that place the station on Google Earth. The data become more accessible, time series plotted and metadata can be seen on the context of the landscape.

Duration in years of daily discharges in Western and Central Africa

Number of daily discharges Western and Central Africa

GIS layers of
Nyong watershed,
hydrometric station
Cameroon

Historical dossier file

Mali : Bani at Douna
Lat. 13.21, long. -5.90
G. MAHÉ 02/2001

Gabon : Ogooue at Ayem
 Lat. -0.1037, long 11.4151
 JP. BRICOUET 01/2017