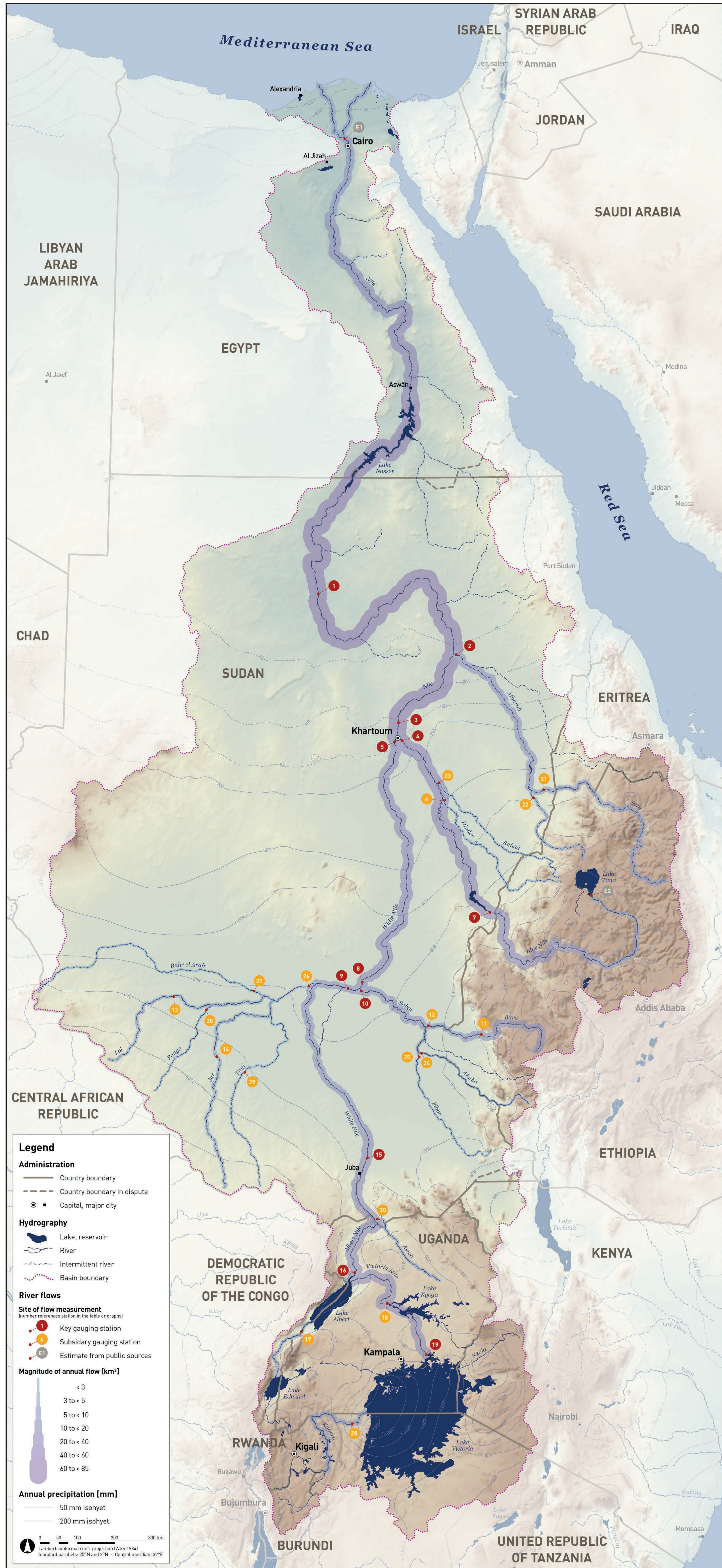


HYDROLOGIC REGIME IN THE NILE BASIN

Mean annual flow of the Nile and main tributaries upstream of Lake Nasser

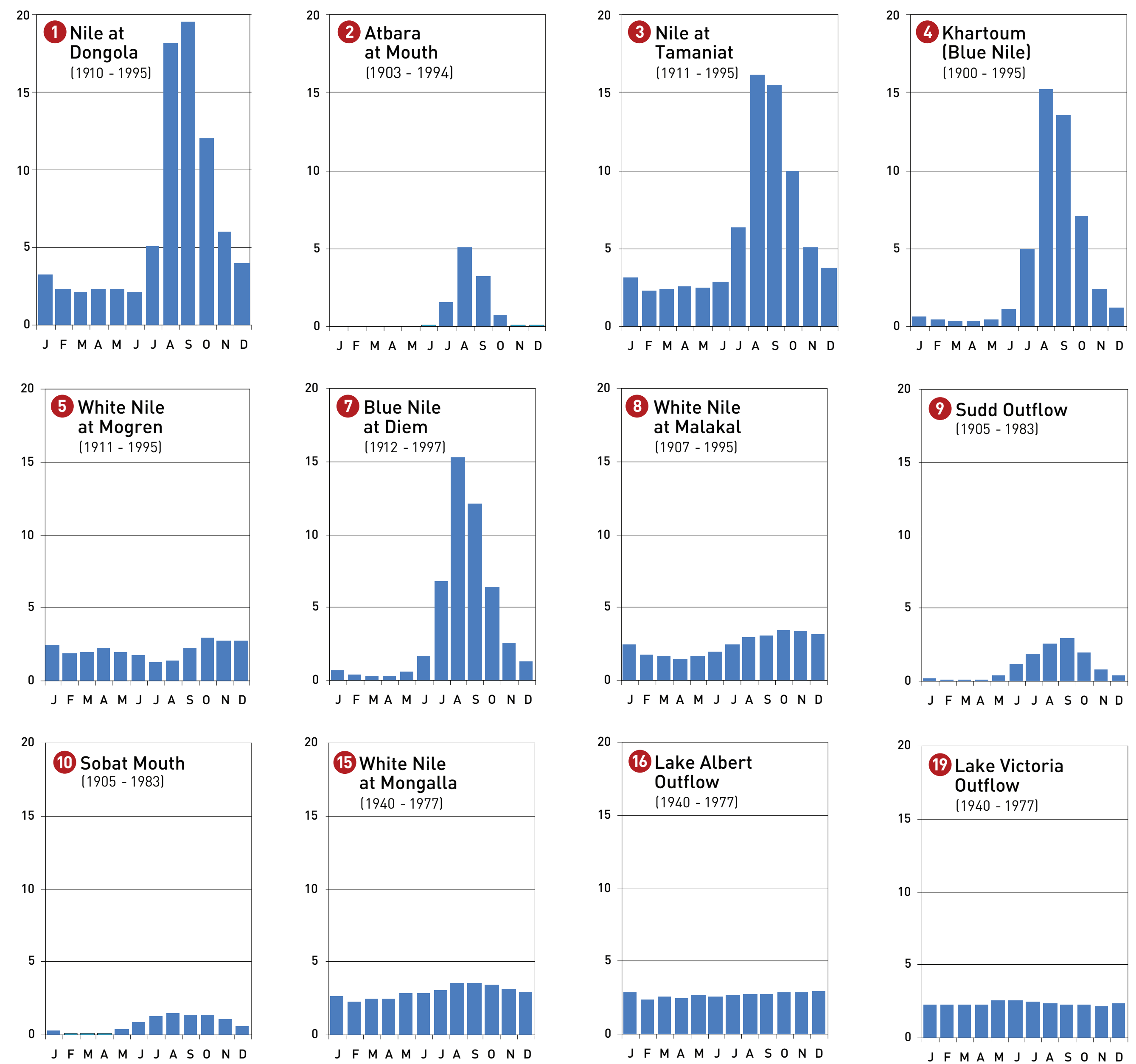


About this poster

This poster presents the average annual flow of the Nile and its main tributaries upstream of Lake Nasser. Downstream of this point, no new tributaries join the Nile system after Aswan, and Lake Nasser outflow is fully regulated. All data presented on this poster has been obtained from Sutcliffe and Parks (1999) "The Hydrology of the Nile". When comparing the relative contributions of the various Nile components, it should be remembered that average annual discharge at key sections was calculated from flow records of different length and periods. Full details of the basin hydrology are given in the project 'Synthesis Report'.

It should also be noted that the 1959 Nile agreement apportions 55.5 km³ to Egypt and 18.5 km³ to Sudan. This was calculated in proportion to population at the time and based on a mean annual flow of 84 km³ at Dongola/Aswan inflow less 10 km³ of reservoir evaporation.

Mean monthly flow in cubic kilometers (km³) at key stations (numbers indicated on map)



Mean annual flow in cubic kilometers (km³) at key stations (numbers indicated on map)

Nr	River and Station Name	Data Period	Avg Ann Flow [km ³]
1	Main Nile at Dongola	1890 - 1995	84.1
2	Atbara at mouth	1903 - 1994	11.1
3	Main Nile at Tamaniat	1911 - 1995	72.7
4	Blue Nile at Khartoum	1900 - 1995	48.3
5	White Nile at Mogren	1911 - 1995	26.0
6	Dinder at mouth	1907 - 1997	2.8
7	Blue Nile at Diem	1912 - 1997	48.7
8	White Nile at Malakal	1905 - 1997	29.7
9	Sudd Outflow	1905 - 1983	16.1
10	Sobat at Hillet Dolieb	1905 - 1983	13.5
11	Baro at Gambeia	1905 - 1959	13.2
12	Baro at mouth	1929 - 1963	9.5
13	Lol at Nyamlel	1944 - 1985	3.2
14	Jur at Wau	1942 - 1986	4.5
15	Bahr el Jebel at Mongalla	1940 - 1977	36.0
16	Lake Albert outflow	1940 - 1977	32.8
17	Semliki at mouth	1940 - 1977	4.6
18	Lake Kyoga outflow	1940 - 1977	28.6
19	Lake Victoria outflow	1940 - 1977	28.6
20	Kagera at Kyaka Ferry	1940 - 1978	6.3
21	Setit at Kurbur	-	7.0
22	Atbara at Wad el Hiliew	-	4.0
23	Rahad at mouth	1908 - 1997	1.1
24	Akabo (incl. Gilla & Mokka)	-	2.8
25	Pibor	-	1.0
26	Bahr el Ghazal (K. Dolieb)	1937 - 1964	0.3
27	Bahr el Arab	-	0.3
28	Pongo	-	0.6
29	Tonj	1944 - 1985	1.4
30	Aswa	1940 - 1977	3.0

Information Products for Nile Basin Water Resources Management

GCP/INT/945/ITA

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The project attempted to strengthen the ability of the governments of the Nile Riparian States to take informed decisions on water resources policy and management matters regarding the common Nile resource. It included a major capacity building component. The project was implemented under the umbrella of the Nile Basin Initiative.

Disclaimer

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