

Africa's Lakes Epilogue

s shown in this Atlas, Africa's lakes contribute significantly to socio-economic development of the African region. Systematically, three main categories of values are distinguished: direct, indirect and symbolic values. The most obvious (direct) use of lakes is as a source for drinking water, irrigation, transportation, fishing and the water supply for households and industry. Additionally, water bodies are breeding grounds for migratory waterfowl and home to myriad species of flora and fauna. Indirect values imply water-retention mechanisms during flooding, impacts on local climate and sinks for wastewater discharges. Symbolic values include religious and spiritual purposes, and the references to water in the expressions of art.

However, these lakes are subject to high levels of rapid population growth, urbanization, industrialization, mining development, expansion of irrigated agriculture, and impacts of climate change. These pressures alter ecosystem processes and result in several threats on the lakes including: loss of biodiversity, over-fishing, eutrophication, proliferation of invasive weeds, siltation, toxic contamination and over-abstraction of water. It is important to note water systems are sensitive barometers of the health of our planet. While water covers most of the earth's surface, only about two per cent of the water body consists of freshwater-and most of that is bound in polar icecaps. Freshwater in a liquid state is, indeed, very scarce. Greatly aggravating the problem is the fact that a great part of the world's available freshwater is concentrated in a relatively few large lakes, many of which are shared by two or more countries. At the same time lakes are a source of livelihoods for most African communities yet there is a lot of mismanagement and over utilization of these water bodies in Africa. African lakes are also subject to climatic change despite human-induced pressures. Lakes in Africa are avenues of economic development. They are also sources of diseases if they are not sustainably managed.

In the years since United Nations Conference on Environment and Development (UNCED), the importance of lakes as invaluable natural resources has increasingly been acknowledged. For instance, water is identified as a central issue in the Millennium Development Goals, a set of timebound and measurable goals and targets for combating various environmental and development problems adopted by heads of state gathered at the UN Millennium Summit in September 2000. Water resource management has also come high on the agenda at the World Summit on Sustainable Development (WSSD) held in Johannesburg in September 2002 (Rio +10). One of its major output documents agreed to by the participating governments, the Plan of Implementation, calls for a number of immediate actions for the promotion of integrated water management. The importance of management of tranboundary water systems has also been explicitly and concretely recognized by the international community, as signified by the establishment of the Convention on the Law of the Non-navigational Uses of International Watercourses. Although there is a lot said

about lakes as avenues for development, little has been done to assess the impact of human influence on these lakes. There is a need to monitor and evaluate the changes and pressure exerted in humanity as a way to map out sustainable management of this water bodies. The use of satellite imagery is one of the modern ways that we can use to show and map out the changes experienced in most African lakes. The imagery can show changes over different time periods and have a wide coverage. The use of geographic information systems (GIS) and remote sensing technology are powerful tools for monitoring, management, modeling and evaluation of environmental impacts. These tools, as illustrated in this Atlas, will help policymakers develop informed decisions on management of African lakes and their related ecosystems.

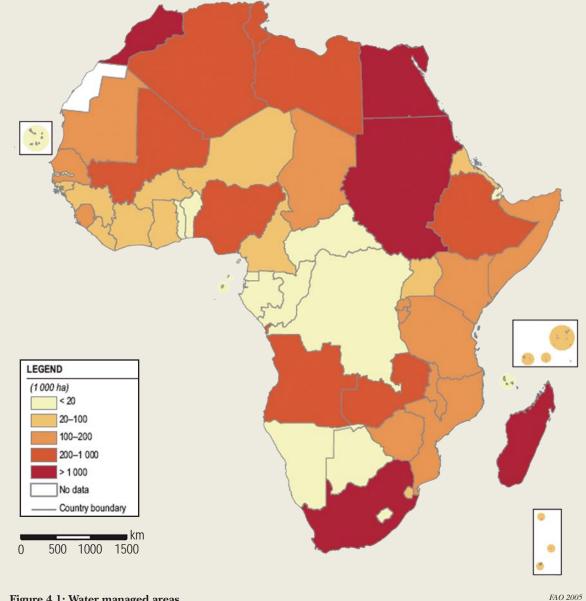


Figure 4.1: Water managed areas

Appendix: Some principle lakes, reservoirs, and lagoons of Africa. (Those highlighted are illustrated case studies in this Atlas).

Ard Germi, Lake Ekilopan 97.4k 6.1N 1.285 1.100 7 15 8.2 25 Mengherin 11 1.285 1.100 70 15 8.5 25 Alke, Lake 1000au, Ekilopi 41.402 1.11N 240 520 8.6 57 5 5 Alke, Lake Ekilopi 41.402 1.11N 245 520 8.6 57 5 5 Algen, Lake Ekilopi 40.46 7.80 1.273 700 70 15 70 80 Algen, Lake Kilopi 40.94 1.421N 1.441N 700 2.75 70 15 70 Manin, Lak Manor, Lako Monor, Lako Monor, Lako Monor, Lako 40.97 2.75 700 4 70 Manin, Lako Monor, Lako Maning, Lako Monor, Lako Maning, Lako 40.87 2.75 700 4 70 <td< th=""><th>Name</th><th>Country</th><th>Longitude</th><th>Latitude</th><th>Altitude [m]</th><th>Surface area [km²]</th><th>Maximum depth [m]</th><th>Length of shore- line[km]</th><th>Volume [km³]</th><th>Mean depth[m]</th></td<>	Name	Country	Longitude	Latitude	Altitude [m]	Surface area [km ²]	Maximum depth [m]	Length of shore- line[km]	Volume [km ³]	Mean depth[m]
Hamibal SubserviewSite of the service of	A el- Gsebaia, Lake	Libya	24.70E	29.61N						
bbhe, 1 ale Thiopin 41.47 11.18 24.3 280 8.6 57 3 Ablgain, Lake Editopin 384.42 7.34 1.573 205 7.6 1.5 0.73 205 Aranto Risk, Lake Editopin 40.17E 1.141 200	(formerly Lake	Ethiopia	37.4E	6.1N	1,285	1,160	7	13	8.2	225
Akipan Lake Ekinopra 58.44 7.3N 1.573 205 7.6 13 0.75 205 Abp Lagoon Core d'Youre 3.05W 3.15N 1 750	Abe, Lake	Djibouti, Ethiopia	41.45E	11.10N	310	780				
thy I ageon Cote of Treatree 3.08N 5.15N 1 780 Atrambe Likey, I ake Hitropin 11.71F 11.11N	Abhe, Lake	Ethiopia	41.4E	11.1N	243	320	8.6	37	3	
Annoba Hagk, Lake Pointopia 11.711/ 11.11N Atterner, Jack Printopia 10.9147 15.81N 10.0 Atterner, Jack Bernin 1.9349 15.21N 10.0 Al Marin, Lake Merrarco 7.50W 32.19N 141 2.76 Al Marin, Lake Merrarco 3.31W 31.75N 19.01 4 Morrar, Lake Madragener 18.53 7.55N 9.01 4 Marrarbin, Lake Marrarbin, Take Marrarbin, Take 9.25N 5.300 2.3 3.8 9.80 Marrarbin, Lake Morrarbin, Take South Atrica 9.25N 9.20N 5.500 7.500 5.500 7.500 5.500 7.500 5.500 7.500 5.500 7.500 5.500 7.500 5.500 7.500 5.500 7.500 7.500 7.500 7.500 7.500 7.500 7.500 7.500 7.500 7.500 7.500 7.500 7.500 7.500 7.500 7.500 7.500	Abijata, Lake	Ethiopia	38.4E	7.3N	1,573	205	7.6	13	0.75	205
Afera ye'h'en LakeEthiopia40.94E13.29N100Ahenor, LakoBenin1.09E6.47N2.762.76Al Masir, LakeMorocco5.31W54.75N1232.76Albort, LakeMadagaaca45.2E1.75S2004Alber, LakeDR Congo, Iguada5.652.904Aller, LakeBudagaaca45.2E1.75S2004Aller, LakeDR Congo, Iguada5.652.904Aller, LakeSuth Africa27.2SE2.834S5Albarana, TakeSuth Africa2.84E2.70655Albarana, LakeSuth Africa2.84E2.70655Anaranaho, LakeMagarani1.849S55Anaranaho, LakeMagarani1.849S1.71N100Anaranaho, LakeMafi3.33W1.5.71N1005Anaranaho, LakeMafi3.33W1.5.71N1005Anaranaho, LakeMafi3.33W1.5.71N1.01221.3Angina LakeMafi3.33W1.5.71N1.01221.3Angina LakeMafi3.33E0.555Anna LakeAlbirphic5.75N1.71N1.011.921.3Angina LakeCate ord1.55E5.85N4005Anna LakeCate ord1.55E5.85N4005Bandal, LakeCate ord1.55E5.85N1.101.111.64 <t< td=""><td>Aby Lagoon</td><td>Cote d'Ivoire</td><td>3.08W</td><td>5.15N</td><td>1</td><td>780</td><td></td><td></td><td></td><td></td></t<>	Aby Lagoon	Cote d'Ivoire	3.08W	5.15N	1	780				
Aheme, Take Bernin 1.92E 0.47N 9 Al Masin, Lake Morocco 7.50W 82.46N 1.41 2.76 Al Masin, Lake Maronco 5.3W 9.477 1.13 8.7 Alkoria, Lake Madagascar 48.3E 1.7.55 200 4	Afambo Hayk, Lake	Ethiopia	41.71E	11.41N						
All Masiar, Lake Morocco 7.50W 32.40N 141 2.76 All Walda, Lake Morogco 5.34W 34.77N 123 5.8 3.8 All Manar, Lake Mutoprocco 5.34W 34.77N 123 5.8 3.8 Allern, Lake Mutoprocco 4.7.38 200 4 5.8 2.80 5.8 2.80 5.8 2.80 5.8 2.80 5.8 2.80 5.8 2.80 5.8 2.80 5.8 2.80 5.8 2.80 5.8 2.80 5.8 2.80 5.952 1.405 5.952 4.405 5.752 5.8 2.80 5.952 4.405 5.753 5.952 5.952 5.952 5.952 5.952 5.953<	Afrera ye'ch'ew, Lake	Ethiopia	40.94E	13.29N		100				
Al Mahda, Lake Maroneco 5.44W 34.77N 123 3.8 Alkour, Lake Madagescar 48.57 1.7.55 200 4 Alkour, Lake DR Congo, Uganda 30.37 1.4N 615 5,300 25 58 280 Alken, Lake South Africa 27.28 28.348 5 5 5 5 5 Almazamuka, Lake South Africa 27.28 28.448 5 5 5 5 5 5 Almazamuka, Lake Madagescar 48.84W 13.578 100 5 5 5 Angendon, Lake Madagescar 48.84W 13.578 100 5 10 5 Angendon, Lake Madagescar 48.84W 15.77N 100 5 1.5 12 Angendon, Lake Ribopia 5.82R 7.0N 1.708 129 1.1 22 1.3 52 Ayane, Lake Ribopia 5.82R 7.0N 1.708 129 1.1 1.0 1.4 19 Ayane, Lake Core d'hoice 3.20W 5.70N 1.60 1 1.0 1.4 19 Ayane, Lake Core d'hoice 1.05.55 5.81N<	Aheme, Lake	Benin	1.95E	6.47N						
Ahora, Lake Madagascar 48.5E 17.5S 200 4 Alber, Lake DR Congo, Ugonda 30.5F 1.4N 615 5,500 25 58 280 Alber, Take South Africa 27.23E 28.34S	Al Massira, Lake	Morocco	7.56W	32.46N		141			2.76	
Albern, Take DR Congo, Uganda 80.5F. 1.4N 615 5,500 25 5.8 280 Allemandxal, Take South Africa 27.25F. 28.345	Al Wahda, Lake	Morocco	5.34W	34.77N		123			3.8	
Allemanskraal, Lake South Africa 27.23E 28.348 Am 'Adel Gabbar, Lake South Africa 32.387. 29.20N AManzamnyama, Lake South Africa 32.387. 29.20N AManzamby, Lake Mozambyue 5.036. 14.493 Ambadri, Lake Mazdagasar 48.84W 15.578 Ambedriana, Lake Madagasar 48.84W 15.578 Anogeundon, Lake Maidagasar 48.84W 15.77N 100 Akegire, Lake Nigeria 4.1E 73N 15 19 Atoo, Lake Fibriopia 51.267. 7.67N 1.708 129 11 22 1.5 52 Ayano, Lake Farazania 35E 65 14 10 148 490 Bangeedon, Lake Gamara 29.45E 5.58N 400 10 148 490 Bangeedon, Lake Gamara 29.45E 5.58N 400 10 148 490	Alaotra, Lake	Madagascar	48.5E	17.58		200		4		
Andra 2000 25.33E 29.20N 25.03E 27.00S Ahanzamungana, Lake South Africa 32.84E 27.00S 27.00S Amaramba, Lake Modanghane 35.33E 14.449S 27.00S 27.00S Amaramba, Lake Madagascar 48.84W 13.57S 10 100 Angjer, Lake Madi 3.39V 15.71N 100 10 Asgjer, Lake Malia 3.39V 15.71N 100 12 1.3 52 Anop, Lake Midnigascar 4.1E 73N 1.70S 129 11 22 1.3 52 Ayane, Lake Ethiopia 38.2E 7.0N 1.70S 129 11 22 1.3 52 Ayane, Lake Core of Yoire 3.20W 5.70N 1.10 14 4.0<	Albert, Lake	DR Congo, Uganda	30.5E	1.4N	615	5,300	25	58	280	
Mararamyanan, lake Sorth 32.84E 27.068 Amaramba, Lake Mozambique 35.95E 14.495 Amaramba, Lake Modagener 48.844W 15.575 Anagenudou, Lake Mali 3.33W 15.71N 100 Asegire, Lake Milgiograf 4.1E 73N 137 15 19 Assey, Lake Kiliopia 34.28E 7.61N 22 1.3 52 Avass, Lake Ethiopia 34.28E 7.61N 19 22 1.3 52 Avass, Lake Core (Porier 3.90W 5.75N 150 11 22 1.3 52 Bandenkin, Lake Gameroon 10.55E 5.88N 400 24 40 40 404	Allemanskraal, Lake	South Africa	27.23E	28.34S						
Amaramba, Lake Mozambique 95.98E 14.498 Ambedi, Lake Sudan 29.32E 8.66N Ambedina, Lake Madagascar 48.84W 13.57S Anupendrou, Lake Maidia 3.33W 15.71N 100 Asegire, Lake Nigeria 4.1E 73N 137 15 19 Atou, Lake Ethiopia 31.26E 7.61N 122 1.3 52 Ayasa, Lake Athe Tonzaia 382F 7.0N 1.708 129 11 22 1.3 52 Ayame, Lake Cote d'Ivoire 5.20W 5.75N 150 1400 148 404 Bandi, Iake Tanzaria 35E 65 14490 1510 4 148 400 Banneofigin, Lake Gamaa 2.23W 8.33N 180 12 14.8 46.4 0.0161 9.13 Banneofigin, Lake Gamaa 2.4E 42.1N 175 1.12 14.8 46.4 0.016	Am 'Abd et Gabbar, Lake	e Egypt	25.33E	29.26N						
Anhadai, Lake Sudan 29.32E 8.66N Ambendruna, Lake Madaguscar 48.84W 13.57S Aongoundou, Lake Mali 3.33W 15.71N 100 Arong, Lake Nigeria 4.1E 73N 137 15 19 Aron, Lake Ethiopia 34.26E 7.01N 1.708 129 11 22 1.5 52 Ayame, Lake Cott d'Ivoire 3.20W 5.75N 150 150 150 150 150 150 150 150 140 148 400 148 400 161 9.18 900 161 9.18 900 1510 1.10 148 400 101 148 400 101 9.18 900 135 1.10 15.100 4 10 148 400 135 1.10 1.10 1.4 4.4 0.0161 9.13 1.10 1.10 1.11 1.4 1.4 0.10 1.1 1.10 1.1	AManzamnyama, Lake	South Africa	32.84E	27.06S						
Anhendrana, Lake Madagascar 48.84W 13.575 Aoragoundon, Lake Mali 3.33W 15.71N 100 Asegire, Lake Nigeria 4.1E 7.5N 137 15 19 Auo, Lake Ethiopia 31.26E 7.6N Xexasu, Lake Ethiopia 38.2E 7.0N 1.708 129 11 22 1.5 52 Ayane, Lake Cote of Tvoire 3.20W 5.75N 150 V V Xexasu, Lake Turzania 35E 65 V V Xexasu, Lake Cameroon 10.55E 5.83N 400 V V Xexasu Sexasu	Amaramba, Lake	Mozambique	35.93E	14.49S						
Angoundon, 1 akc Ma $3.33W$ $15.71N$ 100 Asgire, Lake Nigeria $4.1E$ $73N$ 137 15 19 Atno, Lake Ethiopia $5426E$ $7.0N$ $1,708$ 129 11 22 1.3 32 Awasa, Lake Ethiopia $38.2E$ $7.0N$ $1,708$ 129 11 22 1.3 32 Ayame, Lake Cote d'Ivoire $3.20W$ $5.75N$ 150 $$	Ambadi, Lake	Sudan	29.32E	8.66N						
Asejire, Lake Nigeria 4.1E 73N 137 15 19 Auo, Lake Ethiopia 34.20E 7.61N	Ambendrana, Lake	Madagascar	48.84W	13.578						
Atto, Lake Ethiopia $34.26E$ $7.61N$ Avessa, Lake (Awas, Awusa) Ethiopia $38.2F$ $7.0N$ 1.708 129 11 22 1.3 52 Avessa, Awusa) Gote d'Ivoire $3.29W$ $5.75N$ 150 150 Bahi, Lake Cote d'Ivoire $3.29W$ $5.75N$ 150 150 150 Band, Mwanta, Lake Chana $2.25W$ $8.38N$ 400 10^{-10} 148 490 Bangweula, Lake Ghana $2.25W$ $8.38N$ 180 10^{-11} 148 490 Bangweula, Lake Zambia $2.4E$ $42.1N$ 175 1.12 14.8 46.4 0.0161 9.13 Bardwal, Lake Egypt $30.08E$ $31.08N$ 5.390 0.73 Baromb'Mo, Take Egypt $30.38E$ $0.61N$ 108 2.5 3.5 0.73 Bernomb/Andagascar Hadgascar $44.39W$ $18.89S$ 1.50 0.18 0.56 0.56 0.56 0.56 0.50 0.56	Aougoundou, Lake	Mali	3.33W	15.71N		100				
Awass, Lake (Awass, Awuss) Frhiopia 38.2F. 7.0N 1.708 129 11 22 1.3 52 Ayame, Lake Cote d'Ivoire 3.20W 5.75N 1.50	Asejire, Lake	Nigeria	4.1E	73N	137	15		19		
(Avaxa, Avava) Ayame, Lake Ote d'Ivoire 3.20W 5.75N 150 150 Bahi, Lake Tanzania 35E 5.85N 400 10 148 400 Banendjin, Lake Ginan 2.20W 8.33N 180 100 148 46.4 0.0161 9.10 Bangweuh, Lake Gambia 2.42W 8.33N 1.140 15.100 4 10 1.48 46.4 0.0161 9.13 Bangweuh, Lake Gambia 2.4E 1.1NS 1.12 1.48 46.4 0.0161 9.13 Bardawi, Lake Expyr 3.08K 3.08N 5.900 112 1.48 46.4 0.0161 9.13 Bardawi, Lake Kenya 46.68 0.61N 108 2.5 3.5 0.73 112 1.48 46.4 0.0161 9.13 Bardawi, Lake Kenya 46.49 9.09N 5.590 0.57 0.57 3.5 0.73 1.5 0.55 1.5 0.55 1.5 0.55 1.5 0.55 1.5 0.55	Atuo, Lake	Ethiopia	34.26E	7.61N						
Bahi, Lake Tanzania 35E 68 Bamendjin, Lake Cameroon 10.55E 5.83N 400 Banda Nwanta, Lake Ghana 2.25W 8.33N 180 Bangvelo, Lake Zambia 29.45E 11.05S 1,140 15,100 4 10 148 490 Bangvelo, Lake Zambia 2.4E 42.1N 175 1.12 14.8 46.4 0.0161 9.13 Bardawi, Lake Egypt 33.08E 31.08N 5.390 6.5E 0.61N 108 2.5 3.5 0.73 6.53 0.63 0.51 0.53 0.73 5.4 0.161 </td <td></td> <td>Ethiopia</td> <td>38.2E</td> <td>7.0N</td> <td>1,708</td> <td>129</td> <td>11</td> <td>22</td> <td>1.3</td> <td>52</td>		Ethiopia	38.2E	7.0N	1,708	129	11	22	1.3	52
Bamendjin, Lake Cameroon $10.55E$ $5.83N$ 400 Banda Nvanta, Lake Ghana $2.25W$ $8.33N$ 180 Bangyeulu, Lake Zambia $29.45E$ $11.05S$ $1,140$ $15,100$ 4 10 148 490 Banyoles, Lake Zambia $2.4E$ $42.1N$ 175 1.12 14.8 46.4 0.0161 9.13 Bardavil, Lake Egypt $33.08E$ $31.08N$ 5.390 $$	Ayame, Lake	Cote d'Ivoire	3.20W	5.75N		150				
Banda Nvanta, Lake Ghana 2.25W 8.33N 180 Banda Nvanta, Lake Zambia 29.45E 11.05S 1,140 15,100 4 10 148 490 Bangweulu, Lake Zambia 2.4E 42.1N 175 1.12 14.8 46.4 0.0161 9.13 Banyoles, Lake Kenya 36.63E 0.61N 108 2.5 3.5 0.73 2 Baringo, Lake Kenya 36.63E 0.61N 108 2.5 3.5 0.73 2 Barombi-Mbo, Lake Cameroon 9.39E 4.66N -	Bahi, Lake	Tanzania	35E	6S						
Bangweulu, Lake (Bangweolo) Zambia 29.45E 11.05S 1,140 15,100 4 10 148 490 Bangweulu, Lake (Bangweolo) Zambia 2.4E 42.1N 175 1.12 14.8 46.4 0.0161 9.13 Bardawil, Lake Egypt 33.08E 31.08N 5,390 9.13 Bardawil, Lake Kenya 36.63E 0.61N 108 2.5 3.5 0.73 BardombiMbo, Lake Cameroon 9.39E 4.66N 150 .54 10 0.18 .54 10 0.18 .54 10 0.18 .54 10 0.18 .54 10 0.18 .54 10 0.18 .5	Bamendjin, Lake	Cameroon	10.55E	5.83N		400				
(Bargweolo) Sambia 2.4E 42.1N 175 1.12 14.8 46.4 0.0161 9.13 Bardawil, Lake Egypt 33.08E 31.08N 5,390 5.390 Baringo, Lake Kenya 36.62E 0.61N 108 2.5 3.5 0.73 7 Barombi-Mbo, Lake Cameroon 9.39E 4.66N 7 7 7 7 7 Beda, Lake Cameroon 9.39E 4.66N 7 7 7 7 7 Bemamba, Madagasca Madgascar 44.39W 18.89S 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 <th7< th=""> 7 <th7< td=""><td>Banda Nwanta, Lake</td><td>Ghana</td><td>2.25W</td><td>8.33N</td><td></td><td>180</td><td></td><td></td><td></td><td></td></th7<></th7<>	Banda Nwanta, Lake	Ghana	2.25W	8.33N		180				
Bardawil, Lake Egypt $33.08E$ $31.08N$ $5,390$ Bardawil, Lake Kenya $36.63E$ $0.61N$ 108 2.5 3.5 0.73 Barombi-Mbo, Lake Cameroon $9.39E$ $4.66N$ 108 2.5 3.5 0.73 Beda, Lake Ethiopia $40.41E$ $9.90N$ 108 2.5 8.7 108 Bemamba, Madagascar Madagascar $44.39W$ $18.89S$ 150 0.56 Bogoria, Lake Uganda $33.98E$ $1.65N$ 150 0.56 Bogoria, Lake South Africa $25.67E$ $27.67S$ 300 0.56 Bogoria, Lake Kenya $36.1E$ $0.25N$ 960 34 5.4 10 0.18 Burgigi, Lake Ghana $1.42W$ $6.50N$ 490 45 81 100 118 Burgingi, Lake Kagpt $30.83E$ $31.50N$ 350 8.3 101 72 55.8 <td></td> <td>Zambia</td> <td>29.45E</td> <td>11.058</td> <td>1,140</td> <td>15,100</td> <td>4</td> <td>10</td> <td>148</td> <td>490</td>		Zambia	29.45E	11.058	1,140	15,100	4	10	148	490
Join Join <th< td=""><td>Banyoles, Lake</td><td>Zambia</td><td>2.4E</td><td>42.1N</td><td>175</td><td>1.12</td><td>14.8</td><td>46.4</td><td>0.0161</td><td>9.13</td></th<>	Banyoles, Lake	Zambia	2.4E	42.1N	175	1.12	14.8	46.4	0.0161	9.13
Barombi-Mbo, Lake Cameroon 9.39E 4.66N Berda, Lake Ethiopia 40.41E 9.90N Bemamba, Madagascar Madagascar 44.39W 18.89S Bisina, Lake Uganda 33.98E 1.65N 150 Bloemhofdam, Lake South Africa 25.67E 27.67S 300 0.56 Bogoria, Lake Kenya 36.1E 0.25N 960 34 5.4 10 0.18 Botsumtwi, Lake Ghana 1.42W 6.50N 49 45 81 10 18 Burigi, Lake Tanzania 31.29E 2.06S 100 10	Bardawil, Lake	Egypt	33.08E	31.08N		5,390				
Beda, Lake Ethiopia $40.41E$ $9.90N$ Bemamba, Madagascar Madagascar $44.39W$ $18.89S$ Bisina, Lake Uganda $33.98E$ $1.65N$ 150 Bloemhofdam, Lake South Africa $25.67E$ $27.67S$ 300 0.56 Bogoria, Lake Kenya $36.1E$ $0.25N$ 960 34 5.4 10 0.18 Botsumtwi, Lake Ghana $1.42W$ $6.50N$ 49 45 81 $ Burigi, Lake Tanzania 1.29E 2.06S 100 $	Baringo, Lake	Kenya	36.63E	0.61N		108	2.5	3.5	0.73	
Bernamba, Madagascar Madagascar 44.39W 18.89S Bisina, Lake Uganda 33.98E 1.65N 150 Bloemhofdam, Lake South Africa 25.67E 27.67S 300 0.56 Bogoria, Lake Kenya 36.1E 0.25N 960 34 5.4 10 0.18 Bogoria, Lake Kenya 36.1E 0.25N 960 34 5.4 10 0.18 Botsuntwi, Lake Ghana 1.42W 6.50N 49 45 81 10 <td>Barombi-Mbo, Lake</td> <td>Cameroon</td> <td>9.39E</td> <td>4.66N</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Barombi-Mbo, Lake	Cameroon	9.39E	4.66N						
Bisina, Lake Uganda 33.98E 1.65N 150 Bloemhofdam, Lake South Africa 25.67E 27.67S 300 0.56 Bogoria, Lake Kenya 36.1E 0.25N 960 34 5.4 10 0.18 Botsumtwi, Lake Ghana 1.42W 6.50N 49 45 81	Beda, Lake	Ethiopia	40.41E	9.90N						
Bloemhofdam, Lake South Africa 25.67E 27.67S 300 0.56 Bogoria, Lake Kenya 36.1E 0.25N 960 34 5.4 10 0.18 Botomtwi, Lake Ghana 1.42W 6.50N 49 45 81 Burgi, Lake Tanzania 31.29E 2.06S 100 110 100 <td< td=""><td>Bemamba, Madagascar</td><td>Madagascar</td><td>44.39W</td><td>18.89S</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Bemamba, Madagascar	Madagascar	44.39W	18.89S						
Bogoria, Lake Kenya 36.1E 0.25N 960 34 5.4 10 0.18 Botsumtwi, Lake Ghana 1.42W 6.50N 49 45 81 10 0.18 Burigi, Lake Tanzania 31.29E 2.068 100 10	Bisina, Lake	Uganda	33.98E	1.65N		150				
Botsumtwi, Lake Ghana 1.42W 6.50N 49 45 81 Burigi, Lake Tanzania 31.29E 2.06S 100	Bloemhofdam, Lake	South Africa	25.67E	27.67S		300			0.56	
Burigi, Lake Tanzania 31.29E 2.06S 100 Burullus, Lake Egypt 30.83E 31.50N 350 Buyo, Lake Cote d'Ivoire 6.98W 6.64N 989 8.3 Cahora Basa Reservoir Mozambique 31.4E 15.4S 314 43,63 20.9 157 55.8 246 Cahora Basa Reservoir Mozambique 31.4E 15.4S 314 43,63 20.9 157 55.8 246 Cahora Basa Reservoir Mozambique 31.4E 17.22S 250	Bogoria, Lake	Kenya	36.1E	0.25N	960	34	5.4	10	0.18	
Burullus, Lake Egypt 30.83E 31.50N 350 Buyo, Lake Cote d'Ivoire 6.98W 6.64N 989 8.3 Cahora Basa Reservoir Mozambique 31.4E 15.4S 314 43,63 20.9 157 55.8 246 Cahora Basa Reservoir Mozambique 31.4E 15.4S 314 43,63 20.9 157 55.8 246 Calueque, Lake Angola 14.63E 17.22S 250 72 650 Chad, Lake Chad, Cameroon, Niger, Nigeria 14.17E 13.2N 280 1,540 4.1 10.5 72 650 Challawa Gorge Reserviris 6.9E 10.0N 101 0.10 0.10 118 Chamo, Lake Ethiopia 37.57 E 5.83 N 1,235 551 13 118 118 Chilwa, Lake (Shilwa) Malawi, Mozambique 35.72E 15.33S 622 1,750 1 2.7 1.8	~		1.42W	6.50N		49	45	81		
Burullus, Lake Egypt 30.83E 31.50N 350 Buyo, Lake Cote d'Ivoire 6.98W 6.64N 989 8.3 Cahora Basa Reservoir Mozambique 31.4E 15.4S 314 43,63 20.9 157 55.8 246 Calueque, Lake Angola 14.63E 17.22S 250	Burigi, Lake	Tanzania	31.29E	2.06S		100				
Buyo, Lake Cote d'Ivoire 6.98W 6.64N 989 8.3 Cahora Basa Reservoir Mozambique 31.4E 15.4S 314 43,63 20.9 157 55.8 246 Cahora Basa Reservoir Mozambique 31.4E 15.4S 314 43,63 20.9 157 55.8 246 Calueque, Lake Angola 14.63E 17.22S 250 650 650 650 650 650 650 650 650 650 650 650 650 6.9E 10.0N 101 0.10 6.10 118 118 118 118 118 118 118 2.00 1.00 1.00 1.00 <td< td=""><td>~</td><td>Egypt</td><td>30.83E</td><td>31.50N</td><td></td><td>350</td><td></td><td></td><td></td><td></td></td<>	~	Egypt	30.83E	31.50N		350				
Cahora Basa Reservoir Mozambique 31.4E 15.4S 314 43,63 20.9 157 55.8 246 Calueque, Lake Angola 14.63E 17.22S 250 250 250 260 260 272 650 Chad, Lake Chad, Cameroon, Niger, Nigeria 14.17E 13.2N 280 1,540 4.1 10.5 72 650 Challawa Gorge ReservoirNigeria 6.9E 10.0N 101 0.10 0.10 Chamo, Lake Ethiopia 37.57 E 5.83 N 1,235 551 13 118 Chilwa, Lake (Shilwa) Malawi, Mozambique 35.72E 15.33S 622 1,750 1 2.7 1.8 200	Buyo, Lake		6.98W	6.64N		989			8.3	
Calueque, Lake Angola 14.63E 17.22S 250 Chad, Lake Chad, Cameroon, Niger, Nigeria 14.17E 13.2N 280 1,540 4.1 10.5 72 650 Challawa Gorge ReservoirNigeria 6.9E 10.0N 101 0.10 0.10 Chamo, Lake Ethiopia 37.57 E 5.83 N 1,235 551 13 118 Chilwa, Lake (Shilwa) Malawi, Mozambique 35.72E 15.33S 622 1,750 1 2.7 1.8 200	,				314		20.9	157		246
Chad, Lake Chad, Cameroon, Nigeria 14.17E 13.2N 280 1,540 4.1 10.5 72 650 Challawa Gorge Reservoir Nigeria 6.9E 10.0N 101 0.10 0.10 Chamo, Lake Ethiopia 37.57 E 5.83 N 1,235 551 13 118 Chilwa, Lake (Shilwa) Malawi, Mozambique 35.72E 15.33S 622 1,750 1 2.7 1.8 200		*				· · · · · · · · · · · · · · · · · · ·				
Challawa Gorge Reservoir Nigeria 6.9E 10.0N 101 0.10 Chamo, Lake Ethiopia 37.57 E 5.83 N 1,235 551 13 118 Chilwa, Lake (Shilwa) Malawi, Mozambique 35.72E 15.33S 622 1,750 1 2.7 1.8 200		Chad, Cameroon,			280		4.1	10.5	72	650
Chamo, Lake Ethiopia 37.57 E 5.83 N 1,235 551 13 118 Chilwa, Lake (Shilwa) Malawi, Mozambique 35.72E 15.33S 622 1,750 1 2.7 1.8 200	Challawa Gorge Reservo		6.9E	10.0N		101			0.10	
Chilwa, Lake (Shilwa) Malawi, Mozambique 35.72E 15.33S 622 1,750 1 2.7 1.8 200	0	0			1,235			13		118
-							1		1.8	
		*								

Name	Country	Longitude	Latitude	Altitude [m]	Surface area [km ²]	Maximum depth [m]	Length of shore- line[km]	Volume [km ³]	Mean depth[m]
Chiuta, Lake	Malawi, Mozambique	35.87E	14.8S		100				
Chott el-Hodna, Lake	Algeria	4.67E	35.30N	400	3,620				
D'Afennourir, Lac	Morocco	5.17W	33.33N						
Darlington (Mentz), Lak	eSouth Africa	25.15E	33.17S		40				
De Hoop Vlei, Lake	South Africa	20.38E	34.49S						
Debo, Lake	Mali	4.10W	15.32N		100				
Densu Reservoir (Weija)	Ghana	0.35W	5.55N	14.1	2,564		15.6		
Djoudj, Lake	Senegal	16.2W	16.33N	0	160				
Do, Lake	Mali	2.92W	15.88N		150				
Dziani Boundouni, Lake	Comoros	43.75E	12.35S		0.3				
Ebrie, Lake	Cote d'Ivoire	4.26W	5.30N		589				
Edward, Lake	DR Congo, Uganda	0.42 E	29.58 N	912	2,325	17	112	39.53	
Elmenteita, Lake	Kenya	36.26 E	0.44 S	1,776	20	0.9	1.2		
Er Rosieres, Lake	Sudan	34.42E	11.67N		450				
Eyasi, Lake	Tanzania	35.07 E	3.60 S		1,200				
Faguibine, Lake	Mali	4.00W	16.75N	280	590		10	4	
Fetzara, Lake	Algeria	7.53E	36.78N						
Finch'a', Lake	Ethiopia	37.18E	9.50N		200				
Fitri, Lake	Chad	17.43E	12.90N		100				
Garou, Lake	Mali	2.79W	16.04N		150				
Gemeri, Lake	Ethiopia	41.69E	11.54N						
George, Lake	Uganda	30.21E	0.00	914	250	2.4	4.5	0.8	
Gessi, Lake	Ethiopia	34.20E	7.65N						
Gove, Lake	Angola	15.83E	13.428		300				
Grand Lahou, Lake	Cote d'Ivoire	5.26W	5.17N		199				
Great Bitter Lake	Egypt	32.39E	30.37N		200				
Guiers, Lake	Senegal	15.83W	16.25N	0	228	1.3	2.5	0.415	150
Hartbeespoort Dam Reservoir	South Africa	27.86 E	25.78 S		20	9.6			100
Hayq, Lake	Ethiopia			2,030	35		23		
Hendrik Verwoerd, Lake	*	25.67E	30.67S		400				
Ichkeul, Lake	Tunisia	9.67 E	37.17 N		126	1	2		
Idriss, Lake	Morocco	4.65W	34.14N		40			1.19	
Ihema, Lake	Rwanda	30.78E	1.88 S	1,291	90	4.8	7.8	512.6	78
Ihotry, Lake	Madagascar	43.67E	21.928		100				
Iro, Lake	Chad	19.42E	10.10N		100				
Ist'Ifanos (Chew Bahir), Lake	Ethiopia	36.95E	4.72N		300				
Jebba, Lake	Nigeria	4.75E	9.25N		360			1.0	
Jebel Aulia, Lake	Sudan	32.22E	14.73N		398				
Jipe, Lake	Kenya,Tanzania								
Kabamba, Lake	DR Congo	27.03E	7.928		150				
Kabele, Lake	DR Congo	25.95E	8.93S		100				
Kabwe, Lake	DR Congo	26.03E	9.17S		100				
Kachira, Lake	Uganda	31.13E	0.57S		46				
Kafue Reservoir	Zambia	28.37E	15.81S		1,500			20.3	
Kainji Reservoir	Nigeria	4.55E	10.40N		1000				
Kampolombo, Lake	Zambia	29.4E	11.33S		150				
Kanyaboli, Lake	Kenya				11	3			
Kariba, Lake	Zambia, Zimbabwe	27.5E	16.798	485	54	31	78	160	2164
Kifukula, Lake	DR Congo	28.53E	9.768		100				
Kikuletwa, Lake	Tanzania	37.42E	3.678		200				
Kinkony, Lake	Madagascar	45.83E	16.158		100				
Kioga, Lake (Kyoga)	Uganda	33.1E	1.4N	914	1,720		5.7	6.21	
inoga, Lake (injoga)	Sunda	55.1L	1,111	511	1,740		5.1	0.41	

Name	Country	Longitude	Latitude	Altitude [m]	Surface area [km²]	Maximum depth [m]	Length of shore- line[km]	Volume [km ³]	Mean depth[m]
Kisale, Lake	DR Congo	26.45E	8.25S		200				
Kitangiri, Lake	Tanzania	34.33E	4.08S		100				
Kivu, Lake	Rwanda, DR Congo	29.26W	28	1,460	2,220	240	480	333	
Koka, Lake	Ethiopia	39.1E	8.3N	1,590	250	9.14	13	0.01	
Komango, Lake	Mali	3.69W	16.5N		200				
Kompienga, Lake	Burkina Faso	0.63E	11.16N		220			2.00	
Korarou, Lake	Mali	3.28W	15.30N		100				
Kossou, Lake	Cote d'Ivoire	5.58W	7.17N		1,500				
Kouilou, Lake	DR Congo	12.44E	3.55S		874			35	
Kyle, Lake	Zimbabwe	31E	20.235		100				
La Vallee d'Iherir Lakes		8.25E	25.24N						
Lagdo, Lake	Cameroon	13.97E	8.88N		586			7.70	
Lagos, Lake	Nigeria	3.66E	6.52N		378				
Langana, Lake	Ethiopia	38.62E	7.62N		170				
Lesotho Highlands Reservoirs	Lesotho	28.52E	29.335						
Liambezi, Lake	Namibia	24.33E	17.908						
Magadi, Lake	Kenya	36.27E	1.875		200		1	0,05	
Mai-Ndombe, Lake (Lake Leopld II)	DR Congo	18.20E	28	340	8,210	5	12	41	
Malawi, Lake (formerly Lake Nyasa or Niassa)	Malawi, Mozambique, Tanzar	34.5E nia	0.15	500	29,500	292	706	7,775	245,000
Malombe, Lake	Malawi	35.25E	14.67S		300				
Manambolomaty Lake Complex	Madagascar	44.24E	19.1N		7,491				
Manantali, Lake	Mali	10.50W	13N		200				
Manyara, Lake	Tanzania	35.83E	3.58S		500				
Manzala, Lake	Egypt	32E	31.15N	<1	1,360				
Mape, Lake	Cameroon	11.31E	6.18N		520			3.20	
Marais de Toumbos	Mauritania	16.33W	16.83N		200				
Mare aux hippopotames	Burkina Faso	4.7W	11.37N						
Mare d'Oursi	Burkina Faso	0.30W	14.30N						
Mariout, Lake	Egypt	29.90E	31.12N		66			0.98	
Massinger Barragen, Lak		32.08E	23.87S		150				
Mcilwaine, Lake	Zimbabwe	30.5E	17.5S	1,364	26	9.4	27.4	0.25	74
Mita Hills, Lake	Zambia	29.09E	14.1S	,	47			0.67	
Mohammed V, Lake	Morocco	2.93W	34.63N		32			0.73	
Monoum, Lake	Cameroon	10.58E	5.58N					0.10	
Mweru Wantipa, Lake	Zambia	101002	0.0011						
Mweru, Lake	Zambia, DR Congo,	28.45E	98	922	4,350		37	33	340,000
Mylius, Lake	Ethiopia	36.84E	7.07N	~ = =	1,000		51		210,000
Naivasha, Lake	Kenya	36.2E	0.58	1,890	160	6.5	11.5	4.6	68
Nakivale, Lake	Uganda	50.41	0.00	1,050	100	0.0	11.0	1.0	00
Nakuru, Lake	Kenya	36.1E	0.28	1,759	40	2.3	2.8	0.092	27
Nasser, Lake	Egypt, Sudan	30.1E 32.1E	0.25 22.6N	1,759	5,248	2.5	130	132.5	7,844
Natron, Lake	Egypt, Sudan Kenya, Tanzania	32.1E 36.1E	22.61	105	600	40.4	130	0.35	7,044
		22.77E	2.158		120			0.55	
Ngami, Lake	Botswana Gabon	9.50E	1.985		209				
Ngobe, Lake									
Niangay, Lake	Mali	3.22W	15.83N		300				
Nokoue, Lake	Benin	2.45E	6.42N	100	150			0.1.1	1.400
Nubia, Lake	Sudan	30.4E	21.1N	183	968			24.4	1,406
Nyos, Lake	Cameroon	10.18E	6.27N						
Nzilo, Lake	DR Congo	25.70E	10.88S		280				

OpenalsNearist72.1W8.582.001.0957.58.Oranga JolaRoyan72.2K1.6951.091.001.001.001.00Oranga JolaRoyan21.2K1.001.001.001.001.001.00Oranga JolaRoyan1.001.001.001.001.001.001.001.00Oranga JolaNanika1.5981.0151.001.001.001.001.001.00Para JakaRoyan1.091.021.001.001.001.001.001.00Para JakaRoyan1.096.002.0151.001.001.001.001.00Para JakaRoyan1.096.002.0151.001.001.001.001.00Para JakaRoyan1.096.002.0151.001.001.001.001.00Para JakaRoyan1.091.021.001.001.001.001.001.00Para JakaRoyan1.021.021.001.001.001.001.001.001.00Para JakaRoyan1.021.021.001.001.001.001.001.001.00Para JakaRoyan1.021.021.001.001.001.001.001.001.00Royan JakaRoyan1.021.001.001.001.001.001.001.001.00	Name	Country	Longitude	Latitude	Altitude [m]	Surface area [km ²]	Maximum depth [m]	Length of shore- line[km]	Volume [km ³]	Mean depth[m]
Matrix NormanyNormanySoft<	Oguta, Lake	Nigeria						8		
Olyango DahaBouvara22,6219.58Orango, LakeSaniha13.5810152.54Openom, LakSaniha15.8816.28100Den, LakoSaniha14.581.52120Penathand KVUTBAR24.581.521201.52Penathand KVUTBARSolas2.1581.601.52Penathand KVUTBARSolas2.1581.001.52Penathand KVUTBARSolas2.1581.001.52Penathand KVUTBARSolas2.1581.001.52Penathand KVUTBARMoranifyerSolas2.1582.00Penathand KVUTBARNational1.902.522.00Opinaha, LakNotaging1.622.011.53Opinaha, LakNotaging2.682.011.53Opinaha, LakNotaging2.681.012.01Recur, LakeNotaging2.681.012.01Recur, LakeNormin3.681.132.0077.51.61Recur, LakeNormin1.531.132.0077.51.61Recur, LakeNormin1.531.531.501.521.53Recur, LakeNormin3.581.1542.0077.51.62StandarNormin3.581.531.6077.51.52StandarNormin3.581.531.611.551.55StandarNormin3.581.53 </td <td></td> <td>Nigeria</td> <td>72.1W</td> <td>48.5S</td> <td>250</td> <td>1,058</td> <td></td> <td></td> <td></td> <td>525</td>		Nigeria	72.1W	48.5S	250	1,058				525
Oranges: Luke Galon 10.06 10.18 224 Opmono, Luk Nambia 10.307 10.188	Oiseaux, Lac des	Algeria	8.7E	36.47N						
Openonic LakeNamiha15.5819.15Orn, LakeNation245.981.135Pert afrond of Vermanne RC orney245.981.135Pert ArrongGhon0.4679.135Bio, LakeLiberia11.1006.43N760Polobal, JakeMoonrifuge3.6679.458100Pongolapoont LakeMoonrifuge3.6679.4589.00Optionation, LakeMoonrifuge3.6679.4589.00Quantintin, LakeAngola13.7128.589.00Quantintin, LakeSouth Africa24.8849.00Reseau el lu huño90.68710.4859.00Reseau el lu huño16.80710.4859.00Reseau el lu huño10.48710.48510.0Reseau falkeManagina9.8489.039.00Reseau falkeManagina8.9289.035.001Reseau falkeManagina8.9289.035.001Reseau falkeManagina8.9289.035.001Reseau falkeManagina8.9281.158200Reseau falkeManagina8.9281.1582001Shalp LakeManafina8.9281.1582011Shalp LakeManafina8.9281.1582011Shalp LakeManafina8.9281.1582011Shalp LakeManafina8.9281.1582011Shalp Lake<	Okavango Delta	Botswana	22.02E	18.59S						
One Lake Mail \$8.881 16.281 100 Fare mellorid des Virman IUC (ango) 29.308 1.158 Piol Lango Gabon 0.457 9.135 100 Piol Lake Labera 11.139 6.458 100 2.15 Piol Lake Manalishige 35.086 2.458 300 2.15 Piol Malgo Samit Africa 13.987 27.188 58 2.15 2.15 2.16 2.16 2.15 2.16 2.15 2.16 2.16 2.15 2.16 2.15 2.16 3.16 3.16 3.16 3.16 3.16 3.16 3.16 3.16 3.16 3.16 3.16 3.16 3.16 3.16 3.16 3.16 3.	Onangue, Lake	Gabon	10.05E	1.01S		254				
Pare national des Varnaga DR Congo 29.502 1.155 126 Perit Lorogio Galom 0.617 9.158 126 1 Peni, Lake Maron Higue 35.084 21.58 100 2 2 Pondipioont, Lake South Aftica 31.662 27.415 38 2.45 2 Pondipiont, Lake Angola 13.71E 8.995 36 1.50 2 Quinn Lake Angola 13.71E 8.995 36 1.50 2 Quinn Lake South Aftica 24.882 80.175 1.50 2 </td <td>Oponono, Lake</td> <td>Namibia</td> <td>15.30E</td> <td>19.158</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Oponono, Lake	Namibia	15.30E	19.158						
Peril LangoGalon9.4%9.1%139Pin, Jar11/breria11.15W6.15N760Progelage, Stange94.381007.45Progelage, TakeNota Micro31.90F92.1158.812.45Modaldero, LateNill Congo15.20F4.25K3007.45Progelage, LakAngola15.20F4.25K3017.45Quan, LakAngola15.20F2.94N2007.751.50Renze de LaffanDR Congo2.73K10.92F2007.761.57Renze de LaffanDR Congo2.73K10.92F2007.761.67Renze de LaffanMagaza1.53N1.68N1.507.767.611.77Renze de LaffanMagaza2.35K1.907.731.873.10Renze de La barrania2.22E857.938.707.617.07.0Renze de LaffanMaria1.53N1.55N2.907.707.07.0Seligne, LakeMaria8.44K7.5N1.55N2.907.07.07.0Seligne, LakeNigeria6.91F9.97N5.177.07.07.07.0Seligne, LakeNigeria6.91F9.97N5.127.07.07.07.0Seligne, LakeNigeria6.91F9.97N5.127.07.07.07.0Seligne, LakeNigeria6.91F9.97N5.127.07.0<	Oro, Lake	Mali	3.88W	16.25N		100				
Pion Lake Laberia 11.13W 6.45N 700 PockLa, Lake Moanabéque 50.68E 24.35 100 PockLa, Lake Sunth Africa 31.96E 27.415 38 2.9.5 Pool Makbo, Lake DR Coago 15.42E 4.205 300 1.50 Quina, Lake Kaye 30.17E 8.095 36 1.50 1.50 Quina, Lake Kaye 30.17E 8.095 360 1.50 1.50 Remer, Iale South Africa 24.48 30.17S 10.99 900 1.51 1.51 Remer, Iale Moarnbojne, Kenya 568 5.00 1.610 7 7.5 1.67 3.01 Roke, Lake Imazinia 2.52.8 1.50 2.00 1.51 3.00 1.51 3.00 1.51 3.00 3.01 3.01 3.01 3.01 3.01 3.01 3.01 3.01 3.01 3.01 3.01 3.01 3.01 3.01 3.01 3.01 <td>Parc national des Virung</td> <td>aDR Congo</td> <td>29.30E</td> <td>1.158</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Parc national des Virung	aDR Congo	29.30E	1.158						
Packla, Lake Mozanbágue \$3.08E 24.53 100 Pongalipsot, Lake Nuch Africa \$1.96E \$7.18 .08 \$2.45 Ominituda, Lake Magola 13.71E 8.998 .36 \$1.56 Quinituda, Lake Suppt 30.61E 29.44N 200 \$1.71E 8.998 .36 \$1.56 Quinituda, Lake Suppt 30.61E 29.44N 200 \$1.71E \$1.992 200 \$1.71E \$1.992 200 \$1.71E \$1.992 200 \$1.71E \$1.992 \$2.00 \$1.71E \$1.992 \$2.00 \$1.71E \$1.992 \$1.71E \$1.992 \$1.992 \$1.71E \$1.992 \$1.71E \$1.992 \$1.71E \$1.992 \$2.00 \$1.71E \$1.992 \$1.992 \$1.71E \$1.992 \$1.71E \$1.992 \$1.71E \$1.992 \$1.71E \$1.992 \$1.71E \$1.992 \$1.992 \$1.71E \$1.992 \$1.992 \$1.992 \$1.992 \$1.992 \$1.992 \$1.992 \$1.992	Petit Loango	Gabon	9.45E	2.15S		120				
Pengelaport, Lak South Arica 31.968 27.118 58 2.15 Pool Malebo, Lake DR Congo 15.425 4255 300	Piso, Lake	Liberia	11.15W	6.45N		760				
ProbDisk Congo15.428.1.288300Quiminha, LakeAugula13.71F8.8983.61.54Quima, LakeSouth Africa24.88830.121501Returne de la LufinDR Congo27.08E10.02520001Returne de la LufinDR Congo27.08E10.02520001Returne de la LufinDR Congo27.08E10.02520001Returne de la LufinDR Congo27.08E10.02520001Rato, LakeMuranian15.53W16.63N4270.40077.31.87340Rato, LakeTainzania32.28E8.87.933,000111340Returne de Laturin0.92E2.38S1.01020001111Shing, LakeBurnandi8.92E2.78S1001111Shing, LakeBurnandi8.92E2.78S1.0513111Shing, LakeBurnandia6.91E9.97N5.127.01311Shing, LakeStuth Africa3.22E2.72S257.81.264.80.91811Shing, LakeStuth Africa3.29E2.85N5.0082.621111111111111111111111111 <td>Poelela, Lake</td> <td>Mozambique</td> <td>35.08E</td> <td>24.53S</td> <td></td> <td>100</td> <td></td> <td></td> <td></td> <td></td>	Poelela, Lake	Mozambique	35.08E	24.53S		100				
Quinniha, Lake Angola 13.71E 8.998 36 1.56 Quran, Lake Egypt 30.01E 29.45X 290	Pongolapoort, Lake	South Africa	31.96E	27.41S		58			2.45	
Quaran, Lake Figspl S0.61F 29.15N 200 R.K.Roox, Lake South Africa 24.88F 30.175 150 Rereve, Lake Mozambique 35.08F 19.18 200 Rize, Lake Mozambique 35.08F 19.18 200 Rize, Lake Mauritumia 15.33W 16.85N 150 Rize, Lake Mauritumia 20.32E 2.38S 100 1 Senne, Lake Barundi 30.32E 2.38S 100 1 1 Senne, Lake Ethiopia 34.4 7.4N 1.56S 329 87 266 36.7 Shano, Lake Ethiopia 37.46F 5.50N 123 5.50 13 15.9 Shano, Lake South Africa 32.2 72.7S 38 7.8 16.9 Shaya, Lake South Africa 32.90F 28.8 30.0 8 15.9 Shaya, Lake South Africa 32.90F 28.17S 8.40 1.56 1.5	Pool Malebo, Lake	DR Congo	15.42E	4.25S		300				
Solution Statistic 24.88F 30.17S 150 Reterue de la Lutira DR Congo 27.08E 10.02S 200 Revue, Lake Morambique 33.08E 19.13S 200 Revue, Lake Morambique 33.08E 19.13S 200 Ruto, Lake Morambique 33.08E 3.93N 427 6.400 7 73 187 340 Rutor, Lake Marambique 32.25E 85 715 3.000 1	Quiminha, Lake	Angola	13.71E	8.99S		36			1.56	
Retenue de la Lafrira DR Congo 27.08E 10.92S 200 Reture Lake Moarnibique 33.08F 19.13S 200 Rizi, Lake Mauritania 15.33W 16.83N 150 Rizi, Lake Mauritania 32.92E 5.83N 150 Rizi, Lake Ethiopia, Kerny 36E 5.90N 127 6.100 7 73 187 5.00 Reven, Lake Burundi 30.32E 2.38S 100 500 12 Stata, Lake Ethiopia 38.4E 7.3N 1.538 329 87 266 36.7 Stata, Lake Stata 6.91E 907 312 7.0 500 125 550 13 Stata 50.981 126.9 30.981 126.9 30.981 126.9 500 13 Stata Lake South Africa 32.282 2.87 85 2.62 13 0.981 126.9 50 50 50	Quran, Lake	Egypt	30.61E	29.45N		200				
Revue, Lake Mozambique \$3.08E 19.18S 200 Rize, Lake Mauritania 15.33W 16.85N 150 Radol, Lake Ethiopia, Kenya 36E 3.20N 427 6.400 7 73 187 340 Rakva, Lake Tavaznia 52.27F 88 738 3.000 1 Seingue, Lake Mai 8.27S 1.50N 200 3.000 1 3.000 3.000 3.000 3.001	R.K.Roux, Lake	South Africa	24.88E	30.17S		150				
Riz, Lake Mauriania 15.33W 16.83N 150 Ruble, Lake Ehiopia, Kenya 36. 3.00N 427 6.400 7 73 187 340 Rubw, Lake Tanzania 32.25E 88 793 5.000 1 340 Selingue, Lake Burundi 30.22E 2.288 100 36.1 <td>Retenue de la Lufira</td> <td>DR Congo</td> <td>27.03E</td> <td>10.928</td> <td></td> <td>200</td> <td></td> <td></td> <td></td> <td></td>	Retenue de la Lufira	DR Congo	27.03E	10.928		200				
Rindolf, Lake Pathiopia, Kenya 30E 3.30N 427 6,400 7 73 187 340 Rukea, Lake Burundi 30.32E 8.8 783 5,000 1	Revue, Lake	Mozambique	33.08E	19.13S		200				
Rikwa, Lake Tanzania $32.25E$ 88 793 $3,000$ 1 Revru, Lake Burundi $30.32E$ 2.385 100	Rkiz, Lake	Mauritania	15.33W	16.83N		150				
Reru, Lake Burundi 30.22 2.88 100 Selingue, Lake Mali 8.25 $11.50N$ 200 Shah, Lake Ethiopia 38.44 $7.3N$ 1.568 329 87 206 36.7 Shano, Lake Ethiopia $37.40E$ $5.50N$ 1235 550 13 Shiroro, Lake Nigeria $6.91E$ $9.97N$ 312 7.0 Shaya, Lake South Africa $32.2E$ $27.2S$ 23 78 12.6 43 0.981 126.9 Songor Lagoon Ghana $0.50E$ $5.45N$ 300 8 5000 7.0 5000 8 Sterkfontein, Lake South Africa $32.90E$ $2847S$ 83 2.62 Tana, Lake Kenya $37.50E$ $0.87S$ 159 1.56 Tanda, Lake Mali $47.2E$ 1.788 3.600 9 14 28 3850 732 1400	Rudolf, Lake	Ethiopia, Kenya	36E	3.30N	427	6,400	7	73	187	340
Seingue, Lake Mali 8.25S 11.50N 200 Shah, Lake Ethiopia 38.4F. 7.3N 1.558 329 87 266 36.7 Sham, Lake Ethiopia 37.40E 5.50N 1235 550 13 Shiroro, Lake Nigeria 6.91E 9.97N 312 7.0 5 Songor Lake South Africa 32.2E 27.2S 23 78 12.6 43 0.981 126.9 Songor Lagoon Ghara 0.30E 5.45N - - - - - - - - - - - - - - - - 1.56 -	Rukwa, Lake	Tanzania	32.25E	85	793	3,000		1		
Shala, Lake Ethiopia $38.4E$ $7.3N$ 1.558 329 87 266 36.7 Shamo, Lake Ethiopia $37.40E$ $5.50N$ 1235 550 13 Shamo, Lake Nigeria $6.01E$ $9.97N$ 312 7.0 Silhaya, Lake South Africa $32.2E$ 27.28 23 78 12.6 43 0.981 126.9 Songor Lagoon Ghama $0.30E$ $5.48N$ $5.60N$ 8 2.62 Starkfontein, Lake South Africa $29.39E$ 28.478 83 2.62 Tana, Lake Kenya $37.60E$ $0.88N$ 250 1.56 Tana, Lake (Stana) Ethiopia $37.2E$ $1.4N$ 1.788 3.600 9 14 28 385 Tanda, Lake Mait $4.72E$ $15.75N$ 100 $1.673N$ 1900 1.900 1.900 1.900 1.900 1.900 1.900 1.900 1.900 1.900 1.900 1.900 1.900 1.900	Rweru, Lake	Burundi	30.32E	2.38S		100				
Shano, Lake Ethiopia $37.40E$ $5.50N$ 1235 550 13 Shiroro, Lake Nigeria $6.91F$ $9.97N$ 312 7.0 Sibaya, Lake South Africa $32.2E$ $27.2S$ 23 78 12.6 43 0.981 126.9 Songor Lagoon Ghana $0.30E$ $5.45N$ 2.162 2.62 Sterklontein, Lake South Africa $22.30E$ 28.8 300 8 Sterklontein, Lake South Africa $22.30E$ $28.47S$ 83 2.62 Tana, Lake Kenya $37.46E$ $0.87S$ 159 1.56 Tana, Lake (2) Kenya $37.50E$ $0.88N$ 250 2.62 Tana, Lake (3na) Ethiopia $37.2E$ $11.4N$ 1.788 3.600 9 14 28 3855 Tanda, Lake Mali $4.72E$ $15.75N$ 100 1300 1900 1900 1900 1900	Selingue, Lake	Mali	8.25S	11.50N		200				
Shiroro, Lake Nigeria $6.91E$ $9.97N$ 312 7.0 Sibaya, Lake South Africa $32.2E$ $27.2S$ 23 78 12.6 43 0.981 126.9 Songor Lagoon Ghana $0.30E$ $5.49N$ 8 126.9 Sterkfontein, Lake South Africa $22.90E$ $28.47S$ 83 2.62 Tana, Lake Kenya $37.46E$ $0.87S$ 159 1.56 Tana, Lake (Sana) Ethiopia $37.2E$ $11.4N$ 1.788 $3,600$ 9 14 28 385 Tanda, Lake Mali $4.72E$ $15.75N$ 1000 1177 17.900 1900 Tanganyka, Lake Marind, DR Congo $0.81E$ 6.68 773 32.000 572 1.471 17.800 1900 Tonga, Lake Algeria $8.31E$ $36.53N$ 2 114 456 114 456 114 16 1114 150 <	Shala, Lake	Ethiopia	38.4E	7.3N	1,558	329	87	266	36.7	
Sibaya, Lake South Africa 32.24 27.25 23 78 12.6 43 0.981 126.9 Songor Lagoon Ghana 0.302 $5.45N$ 5 7 7	Shamo, Lake	Ethiopia	37.40E	5.50N	1235	550		13		
Songor Lagoon Ghana 0.30E 5.45N St. Lucia, Lake South Africa 32,30E 28S 300 8 Sterkfontein, Lake South Africa 29.03E 28.475 83 2.62 Tana, Lake Kenya 37.40E 0.875 1.59 1.56 Tana, Lake Kenya 37.50E 0.88N 250 Tana, Lake (Isana) Ethiopia 37.2E 11.4N 1.788 3,600 9 14 28 385 Tana, Lake (Isana) Ethiopia 37.2E 11.4N 1.788 3,600 9 14 28 385 Tanda, Lake Mali 4.72E 15.75N 100 1,900 1,900 1,900 1,900 1,900 1,802 1,802 1,803 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900	Shiroro, Lake	Nigeria	6.91E	9.97N		312			7.0	
S. Lucia, Lake South Africa 32.302 288 300 8 Sterkfontein, Lake South Africa 29.032 28.478 83 2.62 Tana, Lake Kenya 37.462 0.878 159 1.56 Tana, Lake (2) Kenya 37.502 $0.88N$ 250 Tana, Lake (2) Kenya 37.502 $0.88N$ 250 Tana, Lake (13ana) Ethiopia 37.22 $11.4N$ 1.788 3.600 9 14 28 385 Tanda, Lake Mali 4.721 $15.75N$ 100 T	Sibaya, Lake	South Africa	32.2E	27.2S	23	78	12.6	43	0.981	126.9
Sterkfontein, Lake South Africa 29.03E 28.47S 83 2.62 Tana, Lake Kenya 37.46E 0.87S 159 1.56 Tana, Lake (2) Kenya 37.50E 0.88N 250 Tana, Lake (13ana) Ethiopia 37.2E 11.4N 1.788 3.600 9 14 28 385 Tanda, Lake Mali 4.72E 15.75N 100 1700 17000 1900 Tanganyika, Lake Tanzania, Zambia, anot. E 30.1E 6.0S 773 32,000 572 1,471 17.800 1,900 Tonga, Lake Algeria 8.31E 36.53N 2 114 500 1500 Toshka Project, Reservoirs Egypt 30.52E 23.13N 250 5 1114 456 Tumba, Lake DR Congo 18.00E 0.83N 360 6.750 30.2 109 203.6 Turkwel, Lake Kenya 35.14E 1.71N 37 1.6 10.9 <td>Songor Lagoon</td> <td>Ghana</td> <td>0.30E</td> <td>5.45N</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Songor Lagoon	Ghana	0.30E	5.45N						
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	St. Lucia, Lake	South Africa	32.30E	28S		300		8		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Sterkfontein, Lake	South Africa	29.03E	28.47S		83			2.62	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Tana, Lake	Kenya	37.46E	0.87S		159			1.56	
Tanda, LakeMali4.72E15.75N100Tanganyika, LakeTanzania, Zambia, Burundi, DR Congo $30.1E$ $6.0S$ 773 $32,000$ 572 $1,471$ $17,800$ $1,900$ Tonga, LakeAlgeria $8.31E$ $36.53N$ 2 Toshka Project, ReservoirsEgypt $30.52E$ $23.13N$ 2 Toshka Project, ReservoirsEgypt $30.52E$ $23.13N$ 2 Timanampetsotsa, LakeMadagascar $43.48E$ $24.13S$ 114 456 Turnba, LakeDR Congo $18.00E$ $0.83N$ 340 500 5 Turkana, LakeEthiopia, Kenya $36.1E$ $3.3N$ 360 6.750 30.2 109 203.6 Turkwel, LakeKenya $35.14E$ $1.71N$ 37 1.6 1.6 Tuska LakesEgypt $23.08E$ $30.87N$ 200 203.6 1.6 Velorenvlei, LakeSouth Africa $28.33E$ $27S$ 400 4 0.9 Velorenvlei, LakeSouth Africa $28.33E$ $27S$ 400 4 0.9 Velorenvlei, LakeGhanaIE $7.4N$ 85 $8,502$ 18.8 75 148 $4,800$ Zeckoevlei, LakeGhanaIE $7.4N$ 85 $8,502$ 18.8 75 148 $4,800$ Zeckoevlei, LakeSouth Africa $18.4E$ $34.0S$ 5 3 1.9 5.2 0.005 12.6 Zimbambo, LakeDR Congo 26.8	Tana, Lake (2)	Kenya	37.50E	0.88N		250				
Tanganyika, Lake Burundi, DR Congo30.1E Burundi, DR Congo6.0S 8.1E773 6.0S32,0005721,47117,8001,900Tonga, Lake AlgeriaAlgeria8.31E36.53N222<	Tana, Lake (Tsana)	Ethiopia	37.2E	11.4N	1,788	3,600	9	14	28	385
Burundi, DR Congo 2 Tonga, Lake Algeria 8.31E 36.53N 2 Toshka Project, Reservoirs Egypt 30.52E 23.13N Timanampetsotsa, Lake Madagascar 43.48E 2413S 114 456 Tumba, Lake DR Congo 18.00E 0.83N 340 500 5 Turkan, Lake Ethiopia, Kenya 36.1E 3.3N 360 6.750 30.2 109 203.6 Turkwel, Lake Kenya 35.14E 1.71N 37 1.6 1.6 Tuska Lakes Egypt 23.08E 30.87N 200 203.6 1.6 Vermber, Lake DR Congo 26.40E 8.67S 580 450 4 0.9 Valdam, Lake South Africa 28.33E 27S 400 2.5 5 Victoria, Lake South Africa 28.33E 27S 400 3.440 3.440 Volta, Lake South Africa 1.4S 1.134 68.800 40 </td <td>Tanda, Lake</td> <td>Mali</td> <td>4.72E</td> <td>15.75N</td> <td></td> <td>100</td> <td></td> <td></td> <td></td> <td></td>	Tanda, Lake	Mali	4.72E	15.75N		100				
Oshka Project, Reservoirs Egypt 30.52E 23.13N Tsimanampetsotsa, Lake Madagascar 43.48E 2413S 114 456 Tumba, Lake DR Congo 18.00E 0.83N 340 500 5 Turkana, Lake Ethiopia, Kenya 36.1E 3.3N 360 6.750 30.2 109 203.6 Turkwel, Lake Kenya 35.14E 1.71N 37 1.6 1.6 Tuska Lakes Egypt 23.08E 30.87N 200 203.6 203.6 Upemba, Lake DR Congo 26.40E 8.67S 580 450 4 0.9 Valdam, Lake South Africa 28.33E 27S 400 25 5 Velorenvlei, Lake South Africa 28.33I.E 1.14S 1,134 68.800 40 84 2,750 3,440 Volta, Lake Ghana 1E 7.4N 85 8,502 18.8 75 148 4,800 Zeekoevlei, Lake	Tanganyika, Lake		30.1E	6.0S	773	32,000	572	1,471	17,800	1,900
Reservoirs Madagascar 43.48E 24.13S 114 456 Tumba, Lake DR Congo 18.00E 0.83N 340 500 5 Turkana, Lake Ethiopia, Kenya 36.1E 3.3N 360 6.750 30.2 109 203.6 Turkana, Lake Ethiopia, Kenya 36.1E 3.3N 360 6.750 30.2 109 203.6 Turkwel, Lake Kenya 35.14E 1.71N 37 1.6 1.6 Tuska Lakes Egypt 23.08E 30.87N 200 200 203.6 1.6 Upemba, Lake DR Congo 26.40E 8.67S 580 450 4 0.9 203.6 Valdam, Lake South Africa 28.33E 27S 400 2.5 5 5 Velorenvlei, Lake South Africa 28.33E 27S 400 84 2,750 3,440 Volta, Lake Ghana 1E 7,4N 85 8,502 18.8 75	Tonga, Lake	Algeria	8.31E	36.53N			2			
Tumba, Lake DR Congo 18.00E 0.83N 340 500 5 Turkana, Lake (Lake Rudolf) Ethiopia, Kenya 36.1E 3.3N 360 6.750 30.2 109 203.6 Turkwel, Lake Kenya 35.14E 1.71N 37 1.6 Turkwel, Lake Kenya 35.14E 1.71N 37 1.6 Tuska Lakes Egypt 23.08E 30.87N 200 200 Upemba, Lake DR Congo 26.40E 8.67S 580 450 4 0.9 Vaaldam, Lake South Africa 28.33E 27S 400 25 5 Velorenvlei, Lake South Africa 28.33E 27S 400 84 2,750 3,440 Velorenvlei, Lake South Africa 1.4S 1,134 68,800 40 84 2,750 3,440 Volta, Lake Ghana 1E 7.4N 85 8,502 18.8 75 148 4,800 Zeekoevlei, Lake <td></td> <td>Egypt</td> <td>30.52E</td> <td>23.13N</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		Egypt	30.52E	23.13N						
Turkana, Lake (Lake Rudolf) Ethiopia, Kenya 36.1E 3.3N 360 6.750 30.2 109 203.6 Turkwel, Lake Kenya 35.14E 1.71N 37 1.6 1.6 Tuska Lakes Egypt 23.08E 30.87N 200 203.6 1.6 Tuska Lakes Egypt 23.08E 30.87N 200 4 0.9 Upemba, Lake DR Congo 26.40E 8.67S 580 450 4 0.9 Valdam, Lake South Africa 28.33E 27S 400 2.5 5 Velorenvlei, Lake South Africa 28.33.1E 1.4S 1,134 68,800 40 84 2,750 3,440 Volta, Lake Ghana 1E 7.4N 85 8,502 18.8 75 148 4,800 Zeekoevlei, Lake South Africa 18.4E 34.0S 5 3 1.9 5.2 0.005 12.6 Zimbambo, Lake DR Congo 26.87E	Tsimanampetsotsa, Lake	Madagascar	43.48E	2413S	114	456				
(Lake Rudolf) Turkwel, Lake Kenya 35.14E 1.71N 37 1.6 Tuska Lakes Egypt 23.08E 30.87N 200 200 1.6 <			18.00E	0.83N	340	500		5		
Tuska Lakes Egypt 23.08E 30.87N 200 Upemba, Lake DR Congo 26.40E 8.67S 580 450 4 0.9 Vaaldam, Lake South Africa 28.33E 27S 400		Ethiopia, Kenya	36.1E	3.3N	360	6.750	30.2	109	203.6	
Upemba, Lake DR Congo 26.40E 8.67S 580 450 4 0.9 Vaaldam, Lake South Africa 28.33E 27S 400	Turkwel, Lake	Kenya	35.14E	1.71N		37			1.6	
Vaildam, Lake South Africa 28.33E 27S 400 Velorenvlei, Lake South Africa 28.33E 27S 400 Velorenvlei, Lake South Africa 2.5 5 Victoria, Lake Tanzania, Uganda, Kenya33.1E 1.4S 1,134 68,800 40 84 2,750 3,440 Volta, Lake Ghana 1E 7.4N 85 8,502 18.8 75 148 4,800 Zeekoevlei, Lake South Africa 18.4E 34.0S 5 3 1.9 5.2 0.005 12.6 Zimbambo, Lake DR Congo 26.87E 8.17S 150 150	Tuska Lakes	Egypt	23.08E	30.87N		200				
Valdam, Lake South Africa 28.33E 27S 400 Velorenvlei, Lake South Africa 2.5 5 Victoria, Lake Tanzania, Uganda, Kenya33.1E 1.4S 1,134 68,800 40 84 2,750 3,440 Volta, Lake Ghana 1E 7.4N 85 8,502 18.8 75 148 4,800 Zeekoevlei, Lake South Africa 18.4E 34.0S 5 3 1.9 5.2 0.005 12.6 Zimbambo, Lake DR Congo 26.87E 8.17S 150 150	Upemba, Lake			8.675	580	450		4	0.9	
Victoria, Lake Tanzania, Uganda, Kenya33.1E 1.4S 1,134 68,800 40 84 2,750 3,440 Volta, Lake Ghana 1E 7.4N 85 8,502 18.8 75 148 4,800 Zeekoevlei, Lake South Africa 18.4E 34.0S 5 3 1.9 5.2 0.005 12.6 Zimbambo, Lake DR Congo 26.87E 8.17S 150 150 150 150			28.33E	278		400				
Victoria, Lake Tanzania, Uganda, Kenya33.1E 1.4S 1,134 68,800 40 84 2,750 3,440 Volta, Lake Ghana 1E 7.4N 85 8,502 18.8 75 148 4,800 Zeekoevlei, Lake South Africa 18.4E 34.0S 5 3 1.9 5.2 0.005 12.6 Zimbambo, Lake DR Congo 26.87E 8.17S 150 150 150 150	Velorenvlei, Lake	South Africa					2.5	5		
Volta, Lake Ghana 1E 7.4N 85 8,502 18.8 75 148 4,800 Zeekoevlei, Lake South Africa 18.4E 34.0S 5 3 1.9 5.2 0.005 12.6 Zimbambo, Lake DR Congo 26.87E 8.17S 150 150 150		Tanzania, Uganda, K	enya33.1E	1.4S	1,134	68,800	40	84	2,750	3,440
Zeekoevlei, Lake South Africa 18.4E 34.0S 5 3 1.9 5.2 0.005 12.6 Zimbambo, Lake DR Congo 26.87E 8.17S 150 </td <td></td>										
Zimbambo, LakeDR Congo26.87E8.17S150										
		Ethiopia		7.5N	1,636	485	2.5	9	1.1	102

Source: LakeNet http://www.worldlakes.org/searchlakes.asp

Acronyms and Abbreviations

AIDS	Acquired Immunisation Deficiency Syndrome
AVISO	Archiving Validation and Interpretation of Satellite Oceanographic Data
BAR	Basin at Risk
$^{\circ}\mathrm{C}$	degree Centigrade
CIESIN	Center for International Earth Science Information Network
cm	Centimetres
CNPPA	Commission on National Parks and Protected Areas
CO	Carbon monoxide
CO_2	Carbon Dioxide
CRED	Center for Research on the Epidemiology of Disasters
CRU	The Climate Research Unit
CSIRO	Commonwealth Scientific and Industrial Research Organisation
CSR	Climatological Solar Radiation
DEWA	Division of Early Warning and Assessment
DR	Democratic Republic
DDT	Dichlorodiphenyltrichloroethane
E	East
EROS	Earth Resources Observation and Science (National Center)
ETM	Enhanced Thematic Mapper (ETM+).
FAO	Food and Agriculture Organization of the United Nations
FEWS	Famine Early Warning Systems
ft	Foot/Feet
GDP	Gross Domestic Products
GEF	Global Environment Facility
GEO3	Global Environmental Outlook Report 3 (UNEP Publication)
GHG	Greenhouse Gas
GIS	Geographic Information System
GLC	Global Land Cover
GLCF	Global Land Cover Facility
GPS	Global positioning system
GPW	Gridded Population of the World
GRDC	Global Runoff Data Center
GRID	Global Resource Information Database
GWP	Global Water Partnership
HIV	Human Immunodeficency Virus
H _o O	Water - Hydrogen dioxide
ha	Hectares
HCO ₃	Carbonic Acid
ICRAF	International Centre for Research in Agroforestry
ICE	Inventory of Conflict and Environment
ILEC	International Lake Environmental Committee
IRN	International Rivers Network
IPC	International Programs Center, United States Census Bureau, Population Division
IPCC	Intergovernmental Panel on Climate Change
IUCN	International Union for Conservation of Nature and Natural Resources
kg	kilogrammes
km	kilometres
km ²	square kilometres
km ³	cube kilometres
LVEMP	
LHWP	Lake Victoria Environmental Management Project Phase
	Lesotho Highlands Water Project
m MDG	metres Millennium Development Cool
	Millennium Development Goal Milllimetres
mm MODIS	
MODIS	Moderate Resolution Imaging Spectroradiometer

MOPITT-MRS	Measurements Of Pollution In The Troposphere–Metropolitan Region of Santiago
MSS	Multispectral scanner
Mt.	Mount
n.d.	Not dated
Ν	North
N ₂	Nitrogen
N ₂ O	Nitrogen dioxide
NASA	National Aeronautics and Space Administration
NEPAD	New Partnership for Africa's Development
OFDA	Office of U.S. Foreign Disaster Assistant
OMVS	Organization pour la Mise en Valeur du Fleuve Senegal
OWF	Our World Foundation
S	South
SADC	Southern Africa Development Community
SAED	Delta Improvement and Exploitation Society
SAIC	Science Applications International Corporation
SARDC	Southern African Research and Documentation Centre
SOFIA	Stratospheeric Observatory For Infrared Astronomy
T/P	TOPEX/POSEIDON
TBR	Transboundary Biosphere Reserve
TFDD	Transboundary Freshwater Dispute Database
TM	Thematic Mapper
UMD	Universal Mutation Database
UN	United Nations
UN-DHA	United Nations, Department of Humanitarian Affairs
UNDP	United Nations Development Programme
UNDRO	United Nations Disaster Relief Organization
UNEP	United Nations Environment Programme
UNESCO	United Nations Educational, Scientific and Cultural Organization
UNF	United Nations Foundation
UNFCCC	United Nations Framework Convention on Climate Change
UNFPA	United Nations Population Fund
UNICEF	United Nations International Children Emergency Fund
USAID	United States Agency for International Development
USGS	United States Geological Survey
W	West
WB	World Bank
WCMC	World Conservation Monitoring Center
WHO	World Health Organization
WMO	World Meteorological Organization
WRI	World Resources Institute
WSSD	World Summit on Sustainable Development
WWF	World Wildlife Foundation

ETM/LANDSAT Equipped with high resolution instruments, Landsat- 7 was successfully launched on 15 April 1999. This satellite carries the Enhanced Thermal Mapper Plus (ETM+), which is an eight-band, multispectral scanning radiometer. The ETM+ is capable of resolving distances of meters in the panchromatic band; 30m (98 feet) in the visible, near and short-wave infrared band; and 60m (197 feet) in the thermal infraredband.

LANDSAT On 23 July 1972, NASA launched the first in a series of satellites designed to provide repetitive global coverage of the Earth's land masses. It was designated initially as the 'Earth' Resources Technology Satellite-A'. The second in this series of Earth resources satellites (designated 'ERTS-B') was launched on 22 January 1975. It was renamed 'Landsat 2' by NASA, which also renamed 'ERTS-I' as 'Landsat 1'. Four additional Landsats were launched in 1978, 1982, and 1999 (Landsat 3, 4, 5 and 7), respectively.

Special thanks goes to the Global Land Cover Facility (GLCF) of the University of Maryland, the National Aeronautics and Space Administration (NASA) Earth Observatory, and the United States Geological Survey (USGS) for providing access to satellite data. We also wish to thank Flickr.com, Stock.xchng, and Morguefile contributors for the photos.

ACKNOWLEDGEMENTS

UNEP would to thank the following for their contributions to Africa's Lakes: Atlas of Our Changing Environment

Elaine Anderson, Dartmouth College – USA Evelyne Apire, UNEP – Nairobi, Kenya G. Robert Brakenridge, Dartmouth College – USA Brian Czarnecki, Eastern Illinois University – USA Jeffrey Danielson, Science Applications International Corporation – USA Caryn Davis, Oregon State University – USA Mark Denil, Conservation International – USA Chandra Giri, Science Applications

Chandra Giri, Science Applications International Corporation – USA Veronica Grasso – Italy Beth Ingraham, UNEP – Nairobi, Kenya Christian Lambrechts, UNEP – Nairobi, Kenya

Kent Lethcoe, Science Applications International Corporation – USA Satella Musiiwa, IUCN International Union for Nature Conservation – Zimbabwe Webster Muti, Zimbabwe National Water Authority – Zimbabwe Caleb Ouma, UNEP – Nairobi, Kenya René Siwe – Cameroon Seyoum Asamenaw – Ethiopia Ronald Smith, Science Applications International Corporation – USA Gray Tappan, Science Applications International Corporation – USA James P. Verdin, United States Geological Survey – USA Kevin Vervuurt, UNEP – Nairobi, Kenya Patrick Washer, Madagascar Wildlife

Patrick Waeber, Madagascar Wildlife Conservation – Madagascar Aaron Wolf, Oregon State University – USA

Junqi Wu, INBAR – China Gregory Yetman, Centre for International

Earth Science Information Network – USA

INDEX

Agriculture 7, 9, 12, 15, 16, 23, 25, 32, 50, 51, 57, 67, 68, 73, 83 Aquaculture 14, 15 Aquatic Biodiversity 16, 17 Carbon dioxide 12, 17, 39, 41 Challawa Gorge 4, 51, 52, 84 Climate Change 1, 3, 4, 13, 17, 24, 25, 59, 80,83 Coastal 7, 21, 46, 50, 72, 74, 75, 80 Congo 4, 7, 11, 13, 21, 25, 39, 40, 84, 85, 86, 87 Cropland 18, 38, 53 Crops 16, 24, 49, 51, 67 Culture 9, 10 Degradation 1, 3, 8, 10, 14, 21, 28, 29, 69, 71Desert 22, 32, 33, 36, 37 Desertification 3, 25 Drought 3, 4, 22, 23, 26, 27, 35, 51, 59, 61, 62, 79, 80 Earthquake 21, 33 Ecosystem 2, 4, 7, 13, 14, 16, 17, 22, 25, 29, 38, 71, 83 Egypt 1, 2, 4, 7, 11, 16, 25, 32, 33, 35, 36, 37, 84, 85, 86, 87 Endangered 7, 14, 17, 44, 57, 75, 80 Energy 7, 12, 49 Fishing 13, 14, 15, 16, 17, 29, 44, 51, 56, 68, 74, 75 Flooding 4, 28, 29, 32, 43, 44, 49, 50, 51, 53,63 Forests 18, 38 Fresh water 1, 8, 12, 17, 18, 21, 22, 25, 39, 60, 62, 74 Global warming 17, 21

Grasslands 22, 25, 38, 50 Greenhouse gases 21 Health 3, 4, 7, 10, 11, 12, 14, 16, 21, 22, 25, 56, 57, 77 Hotspots 16, 17 Hydroelectric 7, 50, 56, 65, 68 Invasive Species 7, 17, 57 Irrigation 1, 2, 7, 8, 12, 15, 16, 23, 24, 25, 32, 34, 36, 37, 43, 45, 51, 52, 56, 57, 61, 66, 68, 77, 79, 80, 83 Kenya 1, 2, 4, 8, 9, 11, 18, 25, 28, 29, 69, 70, 71, 84, 85, 86, 87 Killer Lakes 4, 2, 39, 40, 41 Lake Alaotra 42, 43, 44 Lake Cahora Basa 48, 49, 50, 84 Lake Chad 3, 4, 7, 11, 22, 23, 24, 25, 26, 27, 32, 51, 84, 85 Lake Chivero 14, 54, 55, 56 Lake Djoudj 4, 57, 58, 59, 85 Lake Ichkeul 4, 60, 61, 62, 85 Lake Kariba 4, 9, 12, 13, 14, 19, 50, 85 Lake Kivu 4, 39, 40, 41, 86 Lake Malawi 2, 4, 11, 13, 14, 15, 16, 17, 38, 84.85.86 Lake Manantali 4, 66, 67, 68, 86 Lake Monoun 4, 39 Lake Nakuru 4, 69, 70, 71, 86 Lake Nasser 1, 4, 32, 33, 34, 36, 37, 86 Lake Sibaya 4, 72, 73, 74, 87 Lake Tana 4, 9, 10, 87 Lake Tanganyika 2, 4, 5, 13, 15, 17, 87 Lake Tonga 4, 9, 78, 79, 80, 87 Lake Victoria 1, 2, 4, 5, 7, 9, 10, 14, 15, 17, 28, 29, 30, 31, 32, 87 Land-use 3, 28

Lesotho 4, 11, 25, 63, 64, 65, 86 Mangroves 50, 75 Niger 4, 7, 8, 11, 25, 84 Nigeria 2, 11, 15, 22, 23, 25, 26, 39, 51, 52, 53, 84, 85, 86, 87 Nile 7, 8, 10, 17, 25, 28, 32, 33, 35, 37 Pollution 3, 7, 8, 9, 10, 12, 14, 15, 17, 19, 21, 29, 45, 73, 74 Population 1, 2, 3, 4, 7, 8, 9, 11, 13, 14, 17, 18, 22, 24, 25, 28, 29, 32, 44, 51, 62, 63, 72, 73, 74, 83 Recreation 1, 2, 13, 56, 83 Sahara 22, 25 Saharan 15, 16, 46 Soil 2, 7, 8, 17, 22, 24, 25, 28, 29, 32, 44, 53, 67 Songor Lagoon 4, 75, 76, 76, 87 South Africa 2, 4, 11, 25, 50, 63, 65, 72, 73, 74, 84, 85, 87 Sudan 7, 11, 25, 32, 84 Sustainability 2, 4, 16 Tanzania 1, 2, 4, 11, 13, 14, 25, 28, 29, 84, 85, 86, 87 Terrestrial 1, 7, 22, 75 Toshka Project 4, 32, 33, 36, 37, 87 Tourism 13, 14, 16, 57, 75 Trans-boundary 2, 3, 18, 19, 21 Urban Areas 14, 38 Water hyacinth 3, 29, 31, 56 Wetlands 1, 7, 10, 13, 16, 17, 21, 22, 24, 35, 38, 44, 51, 53, 56, 57, 59, 62, 63, 73, 74, 80 Wind 23, 29, 32, 39, 53 Zambezi 7, 8, 10, 25, 48, 49, 50