

A Grand Tour Around the Great Lakes of Africa

By Norm Holman.

Your DC3 Aircraft has been chartered to fly a Team made up of Professional Big Game Hunters, Fishermen and Travel Agents around the Great Lakes of Africa and their objective is to establish suitable locations along the shores for setting up Airstrips, Camps, Lodges, etc to expand tourism in these areas.

The Flight Plans are set up mainly across the center of these Lakes but the Team will have some requests of you, the Captain, as follows: a) Can you fly lower? b) Can you go back up that cove? c) Can you fly up the left side of this Lake?

NOTAM

- a) Local DCA rules are minimum altitude for Commercial Flights is 1,000 ft agl. (Include water)
- b) The Flight Plan is set to regulation altitudes, but you may deviate from this per customer request, take care, the sides of the Lakes are very steep in some cases, 3,000ft.
- c) Right side of Central Africa is on a high plateau, 4,000 – 5,500 ft altitude.
- d) The flights are all VFR, but if using ATC, you may use the runway allocated by the Controller.
- e) If using real World Weather, re-set your altimeter frequently by pressing the “B” key as there appear to be pressure changes during each flight.
- f) For those who do not have FSNAV flights are also saved in FS9.
- g) DAYLIGHT TRAVEL ONLY!!
- h) Lake surface altitudes are given ASL.
- i) Check your Navigation frequencies and altitudes, FS2000/2002/FS9 differ.

LAKES, OTHER LANDMARKS AND HISTORICAL INFORMATION

The first two Lakes, Kariba and Cabora Bassa, are “Man-Made” and are fed by the Zambezi River. They were built for Hydro Electric purposes and provide Electricity to much of the region.

All of the other Lakes, except Victoria, are situated in the Great Rift Valley which extends from Mozambique up through Africa, the Red Sea, and finishes up in the Dead Sea. They are located in deep basin type formations (The floor of Lake Tanganyika is below sea level). The Lakes are mostly Artesian, fed from the underground water table and have large rivers flowing out of them:

- a) Shire River at the bottom of Lake Malawi, flows into the Zambezi. Then into the Indian Ocean.
- b) Lukuga from left side of Lake Tanganyika at Kalemie, which flows into the Lualaba thence into the Congo River across Africa and into the Atlantic.
- c) The Nile, which flows from Lake Victoria to Lake Albert, then through the Sudan, Egypt and into the Mediterranean, a distance of more than 2,000 miles if all the bends are included.

Lakes, Albert, Edward, George and Victoria were all named by the 18th Century Explorers after the British Monarchy at that time. (Lake Albert has been re-named Mobutu-Sese-Seko).

Kigoma (KG NDB ON FLIGHT PLAN 549-01-05) was called Ujiji and was the ‘presumed’ famous meeting place of Dr’s Stanley and Livingstone and the coining of the famous phrase “I presume”. There is currently some doubt now as to whether their meeting place was Kisangani or Ujiji.

The two Volcanoes seen on either side leaving Goma (Flight 549-01-06) are currently active and lava was reportedly flowing onto the Airfield at either Goma or Gisenye and into Lake Kivu.

FS2000/2002/FS9 NOTES

- The rivers are not all continuous and have gaps in them.
- The Democratic Republic of the Congo (DR Congo) is shown in FS2002. However, in FS2000 it is called Zaire.
- The areas you will be flying do not have many beacons and a few fixes have been inserted for FSNAV users. Every attempt has been made to accommodate the fliers who do not have FSNAV.

From - To	Flight Description. "Allocated runways and related information may change when flying online or using Real Weather"				Course (Leg)	Distance (Leg)	
	Dep. Rwy-12	Init. Hdg -089deg.	Init. Alt-4500ft	Apt Elev.-3490ft.			
Victoria Falls (FVFA) Zimbabwe to Kariba (FVKB) Zimbabwe	After take off turn left to 089deg and intercept the 089deg radial OB from VFA VOR, 116.70. The Zambezi river will appear on your right. To Fix 03. Reached when DME reads 68nm. Your position is at the upper end of Lake Kariba.				089deg	68.0nm	
	To Fix 04. Continue your heading along the centerline of the lake. After approximately forty minutes flying time turn right to 073deg and continue to follow centerline of the lake.				050deg	85.0nm	
	To DW NDB. 300.0. When the coast is in sight commence 400fpm descent to and maintain 2200ft ASL. On station passage turn right to 090deg bearing OB from DW NDB. Visual approach to runway.				073deg	51.0nm	
	Land Kariba Rwy 9. Length – 5,412ft. Width - 59ft. Surface - Asphalt.				089deg	03.6nm	
Flight No. 549-01-01	Arrival Airport Elev. – 1,702ft. ASL.		Estimated totals for this flight>>>			208nm	

From - To	Flight Description. "Allocated runways and related information may change when flying online or using Real Weather"				Course (Leg)	Distance (Leg)	
	Dep. Rwy-27	Init. Hdg -270deg.	Init. Alt-5500ft	Apt Elev.-1702ft.			
Kariba (FVKB) Zimbabwe to Blantyre (FWCL) Malawi.	To DW NDB, 300.0.				269deg	03.6nm	
	On station passage turn right to the 010deg bearing OB from DW NDB.				010deg	27.0nm	
	To Fix 01. Reached after approximately thirteen minutes flying time from DW NDB.				062deg	39.0nm	
	To Fix 02. Continue to follow general course of the river. Reached after roughly eighteen minutes flying time from Fix 01.				095deg	194.0nm	
	To SO NDB, 290.0. Follow centerline of the lake to its head where SO NDB is located. Track to VCL VOR, 113.30. Tune Nav1 to 110.30 and intercept the ILS.				100deg	127.0nm	
Land Blantyre Rwy 10. Length - 7647ft. Width - 98ft. Surface - Asphalt.							
Flight No. 549-01-02	Arrival Airport Elev. – 2,552ft. ASL.		Estimated totals for this flight>>>			391nm	

From - To	Flight Description. "Allocated runways and related information may change when flying online or using Real Weather"				Course (Leg)	Distance (Leg)	
	Dep. Rwy-10	Init. Hdg -23deg.	Init. Alt-5500ft	Apt Elev.-2552ft.			
Blantyre (FWCL) Malawi. to Karonga (FWKA) Malawi.	To Fix 02. After take off turn left to 024deg and intercept the 068deg radial OB from VCL VOR, 113.30.				024deg	06.2nm	
	To WP1. Maintain heading until DME reads 35nm which is 3nm after passing Zomba airport and just short of Lake Chilwa.				068deg	40.0nm	
	At WP1 turn left to 350deg. descend to and maintain 4500ft.						
	To WP, located thirty one minutes flying time from WP1. DME will read 83nm.				344deg	58.0nm	
	At WP2 passage turn left to 320deg and maintain heading.						
	To WP3, Monkey Bay. Tune Nav1 to VLC VOR, 117.10. This airport is 53.5nm DME from VLC.				320deg	31.0nm	
	To Fix 04. When the coast is reached, turn left and follow the coast.				357deg	251.0nm	
	To Fix 05. Set Nav1 OBS to 210deg and when needle centers turn left to 230deg which is the base leg.				319deg	24.0nm	
	To Fix 06. Descend to and maintain 3500ft. ASL. Reset Nav1 OBS to 139deg, When needle centers turn left to runway heading 139deg. Commence a VOR approach to runway.				230deg	23.0nm	
	Land Karonga Rwy 14. Length - 4208ft. Width - 59ft. Surface - Asphalt.				139deg	08.6nm	
Flight No. 549-01-03	Arrival Airport Elev. – 1,761ft. ASL.		Estimated totals for this flight>>>			441nm	

From - To	Flight Description. "Allocated runways and related information may change when flying online or using Real Weather"				Course (Leg)	Distance (Leg)	
	Dep. Rwy-32	Init. Hdg -288deg.	Init. Alt-8500ft	Apt Elev.-1761ft.			
Karonga (FWKA) Malawi. to Kalemie (FZRF) Congo (DRC)	After take off turn left to intercept the 296deg radial OB from VKA VOR, 115.30. To Mbala airport. Maintain heading when signal from VKA VOR fades And Lake Tanganyika and Mbala runway will be seen shortly afterwards.				296deg	165.0nm	
	On station passage turn right to 325deg and descend to 4500ft ASL. Maintain heading until KMI VOR received.				325deg	218.0nm	
	To WP1 continue heading 325deg until KMI VOR shows 055deg. At WP1 turn to 055deg and track KMI VOR to Kalemie airport.				055deg	05.0nm	
	Land Kalemie Rwy 6. Length – 5741ft. Wid055 th – 98ft. Surface – Asphalt. Mind the VOR mast building!						
Flight No. 549-01-04	Arrival Airport Elev. – 2,568ft. ASL.		Estimated totals for this flight>>>			388nm	

From - To	Flight Description. "Allocated runways and related information may change when flying online or using Real Weather"				Course (Leg)	Distance (Leg)	
	Dep. Rwy-6	Init. Hdg -057deg.	Init. Alt-5500ft	Apt Elev.-2568ft.			
Kalemie (FZRF) Congo (DRC) to Goma (FZNA) Congo (DRC)	To Fix 01. After take off continue on runway heading until you are at 5500ft ASL. Turn left to intercept the 001deg radial OB from KMI VOR, 116.30.				056deg	1.8nm	
	To BJA VOR, 112.30.				001deg	145.0nm	
	To KB NDB, 321.0. Climb to 8500ft ASL. Located at the southern end of Lake Kivu.				338deg	59.0nm	
	To BG NDB, 264.0. Descend to 7500ft ASL.				033deg	39.0nm	
	Track to GOM VOR, 116.5. Commence 500fpm descent to 5500ft ASL when DME reads 10nm. VOR approach to runway. A tricky approach.						
	Land Goma Rwy 36. Length – 9885ft. Width – 148ft. Surface – Asphalt.				354deg	15.5nm	
Flight No. 549-01-05	Arrival Airport Elev. – 5,085ft. ASL.		Estimated totals for this flight>>>			269nm	

From - To	Flight Description. "Allocated runways and related information may change when flying online or using Real Weather"				Course (Leg)	Distance (Leg)	
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	Dep. Rwy-18	Init. Hdg -025deg.	Init. Alt-9500ft	Apt Elev.-5085ft.			
Goma (FZNA) Congo (DRC) to Bunia (FZKA) Congo (DRC)	To GY NDB, 310.0. After take off continue runway heading until GOM VOR, 116.5 DME reads 4nm. On station passage turn left to the 007deg bearing OB from GY NDB. Pass over the saddle between two volcanoes.				183deg	03.9nm	
					007deg	68.0nm	
	To Fix 02. Descend to 7500ft ASL. Reached when GOM DME reads 66nm. To KA NDB, 273.0. You will pass over Lake Edward followed by Lake George which will be seen to your right. On station passage turn left to the 026deg bearing OB from KA NDB.				040deg	64.0nm	
	To Fix 03, Lake Albert. Tune Nav1 to BUN VOR, 114.00. DME is not available. Set OBS to 278deg. When needle centers turn left to runway heading 278deg. VOR approach to runway. Do not descend below 6000ft ASL until runway is in sight. Land Bunia Rwy 28. Length – 6070ft. Width – 98ft. Surface – Asphalt. Mind the VOR mast building.				026deg	87.0nm	
					278deg	32.4nm	
Flight No. 549-01-06	Arrival Airport Elev. – 4,041ft. ASL.		Estimated totals for this flight>>>			256nm	

From - To	Flight Description. "Allocated runways and related information may change when flying online or using Real Weather"				Course (Leg)	Distance (Leg)	
	Dep. Rwy-10	Init. Hdg -100deg.	Init. Alt-7500ft	Apt Elev.-4010ft.			
Bunia (FZKA) Congo (DRC) to Entebbe (HUEN) Uganda.	Tune Nav1 to BUN VOR, 114.00. Set OBS to 99deg. After take off climb very briskly to clear high ground. Intercept the 100deg radial OB from BUN VOR.				99deg	29.0nm	
	To Fix 01. Located on centerline of Lake Albert. This can be roughly located by tuning Nav1 to NN VOR, 117.50 and setting OBS to 130deg. DME cannot be used at this distance on the DC-3. When needle centers turn left to 040deg.				040deg	61.0nm	
	To Fix 02. Continue along center line of lake. You will see ahead the Albert Nile flowing out to the north. Reset Nav1 OBS to 155deg. When needle centers turn right to 076deg. Maintain general heading and follow the Victoria Nile upstream.				076deg	30.0nm	
	To Fix 03. Reset Nav1 OBS to 166deg. Descend to 5500ft. When needle centers turn right to 104deg.				104deg	28.0nm	
	To fix 04. Reset Nav1 OBS to 176deg. When needle centers turn right to 176deg. Track to NN VOR. When DME reads 20nm (Fix 05) turn right to 172deg. Tune Nav1 to 110.70 and intercept the ILS. Land Entebbe Rwy 17. Length – 12,016ft. Width – 148ft. Surface – Asphalt.				176deg	111.0nm	
					172deg	21.0nm	
Flight No. 549-01-07	Arrival Airport Elev. – 3,779ft. ASL.		Estimated totals for this flight>>>			280nm	

From - To	Flight Description. "Allocated runways and related information may change when flying online or using Real Weather"				Course (Leg)	Distance (Leg)	
	Dep. Rwy-17	Init. Hdg -118deg.	Init. Alt-5500ft	Apt Elev.-3779ft.			
Entebbe (HUEN) Uganda. to Nairobi (HKJK) Kenya.	After take off turn left to intercept the 137deg radial OB from NN VOR, 117.5. To MU NDB, 312.0.				137deg	123.0nm	
	On station passage turn left to the 087deg bearing OB from MU NDB. Climb to 9500ft. ASL. Maintain heading until NV VOR received.				087deg	170.0nm	
	Track to NV VOR, 113.10. When DME reads 50nm turn right to 0115deg				115deg	7.2nm	
	Tune Nav1 to 110.30. Descend to and maintain 7500ft. ASL. Intercept the ILS. Land Nairobi Rwy 6. Length – 13,350ft. Width – 148ft. Surface – Asphalt.				053deg	17.4nm	
Flight No. 549-01-08	Arrival Airport Elev. – 5324ft. ASL.		Estimated totals for this flight>>>			318nm	