

Rivers Of The World - The Danube

This charter will take us on a scenic journey along the path of the Danube River. At 1,775 miles in length, it is the 2nd longest river in Europe. It originates in Southwestern Bavaria and terminates at the Black Sea on the East coast of Romania, traversing Germany, Austria, the Slovak Republic, Hungary, Serbia and Romania. These are sightseeing flights, so they will be somewhat short to allow time to visit at such places as Vienna Austria, Budapest Hungary, Belgrade Yugoslavia and Bucharest Romania. We've even been invited to spend our first night at a German AB so their pilots can take a look at our WWII workhorse.

Suggested elevations are provided, but we've received special permission from the authorities to fly as low as we wish to observe the river, so have fun.

Leg 1 – Donaueschingen (official source of the Danube is a spring in the garden of a nearby castle) to Ingolstadt, Germany

From – To	<u>Flight Description.</u>				Course (Leg)	Distance (Leg)	ETE(leg) HH+MM
	"Allocated runways and related information may change when flying online or using Real Weather"						
	Dep. Rwy: 18	Init. Hdg: 179 deg	Init. Alt: 5,500 ft	Apt Elev: 2231			
Donaueschingen- Villingen (EDTD) Germany To Ingolstadt (ETSI) Germany	Departure: Prior to departure tune ADF to IGL NDB (345.0), NAV 1 to RDG VOR (114.70), NAV 2 to NEU DME (108.90) and the NAV1 OBS to 065 deg. Once clear of runway, turn left to 90 deg and begin climb to 5,500 ft. Waypoint reached 4 minutes after turn.....				090	9.7	00+04
	Enroute: To NEU DME: From waypoint, turn left to 065 deg and fly DR until signal from RDG VOR is picked up, then flight direct towards the VOR, but monitor distance from NEU DME. You should see glimpses of the Danube from time to time on either side of your airplane. Waypoint reached at NEU DME. ADF needle should indicate 085 deg to the NDB.....				065	108.2	00+44
	To IGL NDB: From waypoint, turn right to 085 deg, begin 300 fpm descent to 3,500 ft and fly direct to the NDB. You will pass just West of the airfield along the way.....				085	17.2	00+07
	Approach: To IGL NDB: From waypoint, continue 085 deg course for approximately 3 minutes, then make a standard left turn to 277 deg. Waypoint reached when ADF needle indicated 248 deg to NDB...				030	10.9	00+05
	To Manching AB: From waypoint turn left to 248 for visual approach to runway 25L.....				248	9.8	00+04
	Land Runway 25L	Length: 9,647 ft	Width: 197 ft	Surface: Concrete			
1066-06-01	Arrival Airport Elev: 1,201 ft		Estimated totals for this flight>>>			155.8	00+64

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Leg 2 – Ingolstadt, Germany to Vienna, Austria

This leg will take us to the Vienna, the capital of Austria. The “current” population of Vienna is around 1.7 million people. Vienna is home to the Vienna Boys’ Choir and the Spanish Riding School.

NOTAM: Shortly before reaching the end of this flight, the Danube River becomes large enough to be readily visible on FS9. Pilots are encouraged to fly the river from this point on and only use the navigation aids to check/verify your position and for the approach to your destination airport.

From – To	Flight Description.				Course (Leg)	Distance (Leg)	ETE(leg) HH+MM
	"Allocated runways and related information may change when flying online or using Real Weather"						
	Dep. Rwy: 25L	Init. Hdg: 157 deg	Init. Alt: 5,500 ft	Apt Elev: 1,201			
Ingolstadt (ETSI) Germany To Vienna (LOWW) Austria	Departure: Prior to departure tune the ADF to MIQ NDB (426.5), NAV 1 to RDG VOR (114.7) and set the OBS to 52 deg. Once clear of runway turn left to 157 deg, begin climb to 5,500 ft and fly direct to NDB.....				157	10.5	00+05
	Enroute: To Fix 2: From MIQ NDB turn left to 052 deg and fly towards RDG VOR. Waypoint reached when you are 8 nm from RDG. Hopefully you will see the Danube just in front of you.....				052	38.3	00+16
	To LNZ NDB: From waypoint, turn right to 118 deg, tune ADF to 327.0 and fly DR until signal is picked up, then fly direct to the NDB.....				118	88.9	00+35
	To WGM VOR: From LNZ NDB, turn left to 084 deg, turn NAV1 to 112.20 and fly direct to the VOR.....				084	86.7	00+35
	Approach: To Schwechat airport: From VOR, turn right to 162 deg for visual approach to runway 16.....				162	12.7	00+05
	Land runway 16	Length: 11,803 ft	Width: 148 ft	Surface: Bituminous			
1066-06-02	Arrival Airport Elev: 600 ft		Estimated totals for this flight>>>			237.1	01+36

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Leg 3: Vienna, Austria to Budapest, Hungary

As we leave Austria, we pass through a corner of the Slovak Republic, making your turn (Fix 3) just before reaching Bratislava, capital of the Slovak Republic. From there you'll follow the Danube all the way to Budapest, Hungary. Budapest is a very old city, with the area being populated as early as the 3rd and 4th centuries, BC. Modern Budapest came about when the 3 cities of Buda, Pest and Obuda were unified in 1873. Flying North to South along the Danube, the original Buda and Obuda are on the West side with Pest on the plains to the East.

Budapest is known as the Queen of the Danube and also the City of Spas, with 3 dozen thermal bath complexes served by over 100 natural thermal springs.

From – To	<u>Flight Description.</u>				Course (Leg)	Distance (Leg)	ETE(leg) HH+MM	
	"Allocated runways and related information may change when flying online or using Real Weather"							
	Dep. Rwy: 16	Init. Hdg: 81 deg	Init. Alt: 3,500	Apt Elev: 600				
Vienna (LOWW) Austria To Budapest (LHBP) Hungary	Departure: Prior to departure, tune NAV 1 to JAN VOR (110.80). Once clear of runway, turn left to 079 deg, begin climb to 3,500 ft and fly toward the VOR. Waypoint reached when you are 16 nm from the VOR.....				079	25.2	00+11	
	Enroute: To Fix 3: From waypoint, turn right to 139 deg, tune NAV1 to GYR VOR (115.10) and fly towards the VOR. Waypoint reached when you are 4 nm from the VOR.....				139	32.2	00+11	
	To OKI NDB: From waypoint, turn left to 078 deg and tune ADF to 378.0. Fly direct to NDB.....				078	42.0	00+17	
	To Fix 4: From NDB, turn right to 095 deg and fly for approximately 6 min. Waypoint reached once past the row of hills and you reach the river.....				095	15.5	00+06	
	Approach: To Fix 5: From waypoint, turn right to 180 and descent to 2,100 feet. Turn NAV 1 to BUD VOR (117.30), OBS to 090 deg and ADF to M NDB (403.0). Waypoint reached when OBS centers.....				180	20.6	00+08	
	To Fix 6: (left downwind): From waypoint, turn left to 130 deg, tune NAV 1 to MNR VOR (112.50) and set OBS to 050 deg. Waypoint reached with OBS centers.....				130	14.9	00+06	
	To MNR VOR: From waypoint turn left to 050 deg and fly direct to VOR (anticipate upcoming turn).....				050	4.3	00+02	
	To runway 31L: From VOR turn left to 310 deg and fly direct to M NDB. From NDB continue for visual approach to runway 31L.....				310	8.6	00+04	
	Land runway 31L		Length: 9,861 ft	Width: 148 ft	Surface: Concrete			
1066-06-03	Arrival Airport Elev: 495 ft			Estimated totals for this flight>>>			163.3	01+05

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Leg 4: Budapest, Hungary to Belgrade, Serbia

Leg 4 brings us to the Belgrade, capital of Yugoslavia (formerly the republics of Serbia and Montenegro). Like Vienna, it too has a population of roughly 1.6 million people. It is one of the oldest cities in Europe and since ancient time has been an intersection between Eastern and Western Europe. For those who enjoy traditional ethnic folk music, try finding a restaurant with a live Tamburice (pronounced tamburitza) band, the indigenous string band the region.

From – To	Flight Description.				Course (Leg)	Distance (Leg)	ETE(leg) HH+MM	
	"Allocated runways and related information may change when flying online or using Real Weather"							
	Dep. Rwy: 31L	Init. Hdg: 223 deg	Init. Alt: 3,500	Apt Elev: 495				
Budapest (LHBP) Hungary To Belgrade (LYBE) Serbia	Departure: Prior to departure tune NAV 1 to PTB VOR (117.10) and ADF to PA NDB (495.0). Once clear of runway, turn left to 223 deg, begin climb to 3,500 ft and fly toward PTB VOR. Waypoint reached 11 nm from VOR...				223	17.4	00+08	
	Enroute: To Fix 3: From waypoint, turn left to 181 deg, tune NAV 1 to TUZ VOR (109.70), and fly towards VOR. Waypoint reached 60 nm from VOR.....				181	109.0	00+44	
	To PA NDB: From waypoint, turn left to 111 deg and fly direct to NDB.....				111	83.5	00+34	
	To JA NDB: From PA NDB, turn right to 216 deg, tune ADF to 316.0 and fly direct to NDB.....				216	11.4	00+05	
	Approach: From PA NDB, turn right to 301 deg for visual approach to runway 30, 7.5 nm ahead.....				301	7.5	00+03	
	Land Belgrade runway: 30		Length: 11,144 ft	Width: 148 ft	Surface: Asphalt			
1066-06-04	Arrival Airport Elev: 335 ft			Estimated totals for this flight>>>			228.8	01+34

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Leg 5: Belgrade, Serbia to Bucharest, Romania

For most of this flight, the Danube forms the border between Romania and Bulgaria. Bucharest has been described as “Spain 30 years ago,” by one travel writer. There’s lots to see in Bucharest, including the Romanian parliament, Ceausescu’s grave and Universitii Square, an important player in the overthrow of communism.

NOTAM: Flying the river, which meanders greatly in this flight, rather than the navigation aids will add approximately 100 nm to your trip. Plan your fuel accordingly!

From – To	<u>Flight Description.</u>				Course (Leg)	Distance (Leg)	ETE(leg) HH+MM	
	"Allocated runways and related information may change when flying online or using Real Weather"							
	Dep. Rwy: 30	Init. Hdg: 300	Init. Alt: 3,500 ft	Apt Elev: 334 ft				
Belgrade (LYBE) Serbia To Bucharest (LROP) Romania	Departure: Prior to departure, tune ADF to KN NDB (380.0) and NAV 1 to FLR VOR (112.20) set OBS to 359 deg. Upon take-off, maintain runway heading, begin climb to 3,500 ft and fly direct to NDB.....				300	9.6	00+05	
	Enroute: To Fix 1: From NDB turn right to 048 deg and fly for approximately 4 min. Waypoint reached when you reach the river.....				048	8.8	00+04	
	To POZ NDB: From waypoint, turn right to 119 deg, tune ADF to 416.0 and fly direct to NDB.....				119	42.4	00+17	
	To Fix 2: From NDB, turn left to 096 deg and fly for approximately 20 min. Waypoint reached when you reach the river on a definite SE course.....				096	56.9	00+23	
	To Fix 3: From waypoint, turn right to 129 deg and fly for approximately 20 min. Waypoint reached when the river is on an East – West course and a lake is seen ahead on the left.....				129	55.0	00+22	
	To Fix 4: From waypoint, turn left to 092 deg, tune ADF to RUS NDB 415, and fly for approximately 40 min. Waypoint reached when OBS centers.....				092	97.9	00+40	
	To FLR VOR: From waypoint, turn left to 359 deg and fly direct to VOR.....				359	49.5	00+20	
	Approach: To OPW NDB: From VOR turn right to 070 deg, tune ADF to OPW NDB 267.5, and fly direct to NDB..... To runway 8: From NDB turn right to 081 for visual approach to runway 8R, 4.0 nm ahead.....				070 081	12.3 4.0	00+05 00+02	
	Land Otopeni runway: 8R		Length: 11,428 ft	Width: 148 ft	Surface: Asphalt			
1066-06-05	Arrival Airport Elev: 314 ft		Estimated totals for this flight>>>				336.4	02+18

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Leg 6: Bucharest to the Black Sea

The last leg of this charter will take us to the Danube River delta on the Black Sea. Here the Danube forms a 2,100 square mile wildlife reserve, home to over 300 species of birds and 160 kinds of fish, both fresh and salt water. From the Black Sea we'll turn to the Southwest to end our charter in Constanta.

From – To	<u>Flight Description.</u>				Course (Leg)	Distance (Leg)	ETE(leg) HH+MM
	"Allocated runways and related information may change when flying online or using Real Weather"						
	Dep. Rwy: 8R	Init. Hdg: 081	Init. Alt: 3,500 ft	Apt Elev: 314 ft			
Bucharest (LROP) Romania To Constanta (LRCK) Romania	Departure: Prior to departure, tune ADF to OPE NDB (349.0). Upon take-off, maintain runway heading of 081 deg, begin climb to 3,500 ft. and fly direct to NDB.....				081	5.8	00+03
	Enroute: To Fix 1: From NDB, turn right to 147 deg and fly for approximately 15 min. Waypoint reached when you reach the river.....				147	35.1	00+15
	To Fix 2: From waypoint, turn left to 076 deg, tune NAV1 to CND VOR (112.70) and head for the VOR. Waypoint reached when DME indicates 24 nm from CND.....				076	57.2	00+23
	To Fix 3: From waypoint, turn left to 356 deg, tune NAV 1 to GLT VOR (108.20) and fly towards the VOR. Waypoint reached when DME indicated 1 nm from GLT.....				356	70.3	00+29
	To Fix 4: From waypoint, turn right to 107 deg and fly for approximately 31 min. Waypoint reached when you reach the coast of the Black Sea at the mouth of the Danube River delta.....				107	77.5	00+31
	To CND VOR: From waypoint, turn right to 229 deg, tune NAV 1 to (112.70) and fly direct to VOR.....				229	61.9	00+25
	Approach: Set OBS to 002 deg and make a left procedure turn: Maintain course for 2 min from VOR, then turn left to 129 deg for 1 min, then turn left to 039 deg. Waypoint reached when OBS centers.....				002	10.2 5.6	00+04 00+02
	To runway 36: From waypoint turn left to 002 deg for visual approach to runway 36.....						
	Land Kogalniceanu runway: 36	Length: 11,496 ft	Width: 148 ft	Surface: Concrete			
1066-06-06	Arrival Airport Elev: 354 ft		Estimated totals for this flight>>>			323.5	02+12