

## **DC-3 Airways - Charter Flight: 324-09, Capitals of Europe**

### **CoE for CoF - CAPITALS OF EUROPE for Century of Flight**

This is a sight seeing tour for passengers that covers most of the capitals in Western Europe. In some cases, Microsoft didn't give us much to work with. We'll make the best of it for the sake of our paying passengers (PAX).

While the scenery in FS2004 (CoF, Century of Flight) may be better, nearly all the points in this charter are also available in FS2002. To avoid confusion, I've created a separate description for FS2004 and FS2002. The legs have not been verified for FS2000.

#### **Abbreviations:**

AGL	Above Ground Level	Length	Length of runway
Approx	Approximately	METO	Max (power) Except Take Off
BOD	Beginning Of Descent	MSL	Mean Sea Level
DIR	Direct	NDB	Non Directional Beacon
DR	Dead Reckoning	OB	Out Bound
Elev	Runway Elevation	Rwy	Runway
HDG	Heading	VOR	VHF Omni Range

#### **NOTAMS**

There are FSNavigator flight plans for all legs of the charter. The descriptions contained in this file will not cover every point (FixNN) with headings, times, etc. Much of the sight seeing trip will be by pilotage and direct to navigation aids.

To view the scenery mentioned in this charter, you will need Display Settings set to at least:

FS2004: Scenery – Objects set to Complex and Auto Generation set to Very Dense

FS2002: Scenery Tab – Texture Quality to Max and Auto Generation set to Very Dense

You do not need any special download files. Everything I've mentioned is contained in the default scenery files within the two Flight Simulator versions (FS2002, FS2004).

Liberal use of the “W” key (Maximize view) is suggested for a better view.

All flights should be day, VFR so the PAX get the best view. You may want to disable crashes.

**Here is a quick run down on the scenery you will be pointing out to your passengers.**

**London** – Tower Bridge (fly through the bridge between the towers), St. Paul's Cathedral, Millennium Dome, Houses of Parliament, a huge Ferris Wheel (FS2004 only) and the white cliffs of Dover (this part of the leg causes passengers to riot).

**Amsterdam** – a small boy with his finger in a dike (this one may be an hallucination).

**Amsterdam to Brussels and then to Bern, Switzerland (Belp)** – Microsoft shorted us on scenery in these cities.

**Ulrichen, Switzerland** – this airport lies in a “pot hole” at the bottom of a 6,000-foot valley. Real sporty approach. Fly the reverse track for extra credit.

**Rome** – on the approach to Fiumicino Airport you will spot St. Peter's at Vatican City and the Coliseum  
You need a bit of a rest so you transport the plane to Athens by ship.

**Athens** – after takeoff, you spot the Parthenon before taking your passengers to the Island of Milos.  
In need of another rest, you again load the plane on a ship and travel with it to Lisbon.

**Lisbon to Madrid** – again, Microsoft didn't include much in the way of scenery here.

**Madrid to Nice** – enroute, you will overfly Andorra (one of the smallest countries in Europe) in the Pyrenees Mountains and finally land at Nice, France.

**Nice to Orly (Paris)** - again, minimum scenery.

**Paris to Cologne (Bonn)** - on the way out of town, follow the Seine River and show the passengers Notre Dame Cathedral, the Soccer Stadium, the Arc de Triomphe, the Grand Palaces and fly under the Eiffel Tower before heading to Germany.

**Cologne-Bonn to Tempelhof (Berlin)** – on arrival at Berlin, show the passengers the Fernsehturm tower, the Reichstag (seat of German Bundestag or government), the Siegessaule Monument in the Tiergarten then reverse course for a look at the Brandenburg Gate.

Norbert Platt (DC3-663) helped me with the points of interest around Berlin. Any misidentifications are mine, not his. Thanks Nobbie.



<b>From / To</b>	<b>Flight Description</b>	<b>Course (Leg)</b>	<b>Dist. (Leg)</b>	<b>ETE (Leg)</b>
<b>Lydd Airport, England  (EGMD)</b>          <b>To</b>          <b>Schiphol Amsterdam, Netherlands  (EHAM)</b>	<b>Charter Leg: 324-09-02      Initial Altitude - 1000 MSL</b>  = Dpt Rwy 04, (Elev 9, Length 5027 x 121, asphalt)  = After takeoff turn left DIR to LYX NDB  = Lydd, LYX NDB (397.0) ----- = Calais-Dunkirk, MK NDB (418.0) ----- = Costa, DOA VOR (110.05) ----- = Haamstede, HSD VOR (114.15) ----- = Valkenburg, VBG DME (111.2) ----- = Amsterdam, AMS VOR (113.95) -----			
		037	2	0+01
		091	42	0+18
		070	53	0+22
		043	29	0+12
		041	33	0+14
		049	15	0+06
	= Track outbound from AMS VOR on 043 radial for 7.2 nm (Fix01) – Look down – is that a young boy with his finger stuck in a dike? (Guess not!)-----	043	7.2	0+03
	= Climb to 2000 MSL and turn right to WP NDB  = Schiphol (Amsterdam) WP NDB (376.0) ----- Intercept localizer Hdg 270, needle will center rapidly	131	9	0+09
	= ILS to Schiphol, Rwy 27, (111.5, Hdg 270) -----	270	8	0+04
	= Land Rwy 27, (Elev -9, Length 11301 x 148, asphalt)			
	<b>Approximate totals</b>		199	1+24



From / To	Flight Description	Course (Leg)	Dist. (Leg)	ETE (Leg)
<b>Belp, Bern, Switzerland (LSZB)</b>  <b>to</b>  <b>Ulrichen, Switzerland (LSMC)</b>  <b>return to</b>  <b>Belp, Bern, Switzerland (LSZB)</b>	<b>Charter Leg: 324-09-04                      Initial Altitude - 10,500 MSL</b>			
	Dpt Rwy 32, (Elev 1669, Length 4295 x 98, asphalt)			
	= After takeoff turn right DIR WIL VOR			
	= Willisau, WIL VOR (116.9) -----	047	23	0+10
	= Track outbound from WIL VOR on 160 deg radial			
	= At WIL 160/40 DME, cross a ridge (press “W” key and look down) -----	160	44	0+19
	= Ulrichen is 4419 Elev and sits in a “pot hole” in a 6000 foot valley -----	160		
	= At WIL 160/43.7 DME, over runway – suggested approach: Turn right to 230 deg, descend to 6500 MSL. Make a 180 deg turn to the left to hdg of 050, descending to 5400. ID runway and make VFR landing on Rwy 05 -----	230/050		
	= Land Rwy 05, (Elev 4419, Length 6890 x 131, asphalt)			
	PIREP for flight – 324-09-04			
	= On the ground, make 180 turn on the runway and prepare to depart Rwy 23. Fly reverse route to Belp.			
	PIREP for reverse trip – 324-09-04R			
	<b>Approximate Totals (both flights)</b>		134	0+54

From / To	Flight Description	Course (Leg)	Dist. (Leg)	ETE (Leg)
<div><div>Belp Bern, Switzerland</div><div>(LSZB)</div><div>to</div><div>Fiumicino Rome, Italy</div><div>(LIRF)</div></div>	Charter Leg: 324-09-05			
	Initial Altitude – 9500 MSL			
	Dpt Rwy 14, (Elev 1669, Length 4295 x 98, asphalt)			
	= After takeoff turn right DIR MOT VOR, expedite climb, the Alps are dead ahead (suggest METO power, 80 kt climb).			
	= Montana, MOT VOR (115.85) -----	181	36	0+15
	Expedite climb to 13,500 MSL, put on oxygen mask, the PAX will be real quiet, sleeping. After passing the Alps ... ASAP, BOD to 9500 MSL, the passengers lips are turning blue			
	= Voghera, VOG VOR (155.5) -----	143	98	0+36
	= Pisa, PIS VOR (112.1) -----	142	98	0+36
	= Tarquinia, TAQ VOR (111.8) -----	145	106	0+39
	BOD to 2000 MSL			
	= Campagnano, CMP VOR (111.4) -----	100	29	0+11
	BOD to 1100 MSL, 120 kts			
	= Fix01 – CMP 165/12 DME (St Peter’s Cathedral, Vatican City) -----	165	12	0+05
	Left Turn to 120 deg			
	= Fix02 – Coliseum -----	120	2	0+01
Climb to 2000 MSL				
= Urbe (Rome), URB NDB (285.0) -----	001	3	0+02	
= Fiumicino (Rome), FN NDB (421.0) -----	260	12	0+05	
= Fiumicino (Rome), FW NDB (345.0) -----	222	2	0+01	
= ILS Rwy 16R, (110.3, Hdg 162) -----	162	4	0+02	
Intercept Glide Slope prior to Localizer.				
= Land Rwy 16R, (Elev 13, Length 12813 x 197, asphalt)				
	Approximate Totals		406	2+32
	Have your trusty DC-3 loaded onto a tramp steamer and ship the bird to Athens, Greece. REFUEL			

From / To	Flight Description	Course (Leg)	Dist. (Leg)	ETE (Leg)
Athens, Greece  (LGAT)  to  Milos Island, Greece  (LGML)	Charter Leg: 324-09-06                      Initial Altitude – 2500 MSL			
	Dpt Rwy 33L, (Elev 65, Length 10353 x 148, asphalt)			
	= After takeoff left turn, DIR KVR NDB			
	= Kavouri, KVR NDB (357.0) -----	160	5	0+03
	= Athens, ATV VOR (114.4) 100 kts -----	023	5	0+02
	BOD to 1500 MSL as soon as terrain permits			
	Track outbound 324 deg radial, ATV VOR			
	= Fix01 (Stadium) -----	358	4	0+02
	Turn left to 286 deg			
	= Fix01 (Parthenon) -----	286	1.5	0+00:30
	Climb to 2000 MSL			
	= Aigina, EGN NDB (382.0) -----	223	19	0+08
	= Milos, MIL VOR (113.5) -----	137	80	0+33
	= Fix03 – MIL VOR 159 / 2.7 DME -----	159	2.7	0+03
	No lower than 1000 MSL until established on final approach			
= Right turn to 259, 3 NM final -----				
= Land VFR, Milos Island Airport, Rwy 26 -----	259	3	0+02	
Info – Milos, MLO NDB (378.0) located at airport				
Land Rwy 26, (Elev 9, Length 2625 x 82, asphalt)				
	Approximate Totals		113	0+54
	Load your DC-3 onto another ship and travel to Lisbon, Portugal			

<b>From / To</b>	<b>Flight Description</b>	<b>Course (Leg)</b>	<b>Dist. (Leg)</b>	<b>ETE (Leg)</b>
<b>Lisbon, Portugal  (LPPT)</b>          <b>to</b>          <b>Barajas, Madrid, Spain  (LEMD)</b>	<b>Charter Leg: 324-09-07</b> <b>Initial Altitude – 9500 MSL</b>  Dpt Rwy 35, (Elev 370, Length 7906 x 148, asphalt)  = After takeoff, DIR LIS VOR  = Lisbon, LIS VOR (114.8) ----- = Nisa, NSA VOR (115.5) ----- = Caceres, CCS VOR (114.2) ----- = Toledo, TLD VOR (113.2) ----- BOD to 4000 MSL, 23 DME past TLD VOR = Perales, PDT VOR (116.95) ----- = Barajas (Madrid), MA NDB (390.0) -----  = Land, VFR Rwy 33, Barajas Airport -----  = Land Rwy 33, (Elev 1998, Length 13484 x 197, asphalt)			
		355	7	0+03
		061	71	0+27
		097	68	0+26
		079	100	0+37
		074	49	0+18
		328	11	0+02
		328	5	0+02
	<b>Approximate Totals</b>		307	1+55

From / To	Flight Description	Course (Leg)	Dist. (Leg)	ETE (Leg)
<b>Madrid, Spain  (LEMD)  to  Nice, Cote d'Azur, France  (LFMN)</b>	<b>Charter Leg: 324-09-08</b> <b>Initial Altitude – 5500 MSL</b> Dpt Rwy 15, (Elev 1998, Length 13484 x 197, asphalt) = DIR Barajas, (Madrid) AA NDB (355.0) ----- = Calamocha, CMA NDB (375.0) ----- = Zza, ZZA NDB (348.0) ----- Climb to 10500 MSL (terrain clearance) = Lerida, LRD NDB (404.0) ----- = Seo De Urgel, SEO NDB (340.0) ----- Dpt SEO NDB on Hdg of 040 to Fix01 = Fix01, Intercept 178 deg radial of Toulouse, TOU VOR (117.7)-- Track inbound 358 deg to TOU VOR = Fix02 – Overfly Andorra, TOU VOR 178/59 DME ----- = Pamiers, PMR NBD (384.0) ----- BOD to 9500 MSL = Beziers, ZR NDB (397.0) ----- BOD to 5500 MSL, give PAX view of coastline = Montpellier, FG NDB (339.0) ----- = Marseille, MAR NDB (383.0) ----- = BOD to 3500 MSL = Cannes, CNM VOR (111.4) ----- BOD to 2000 MSL = Nice, NC NDB (338.0) ----- = Land Nice/Cote d'Azur, ILS Rwy 04R (110.7, Hdg 046) ----- Intercept Glide Slope prior to Localizer (Localizer may be inoperative) Land Rwy 04R, (Elev 9, Length 9713 x 148, asphalt)	   147 078 028  095 042  040  358 020  081  069 096  087  082 138   	   3 106 46  69 53  5  24 25  75  35 49  76  11 5  580 	   0+01 0+42 0+18  0+27 0+21  0+02  0+10 0+10  0+30  0+14 +019  0+30  0+05 0+02  3+50 
	<p style="text-align: right;"><b>Approximate Totals</b></p> Take a short bus ride to Monaco to see if you can win enough money gambling to buy gas for the next leg :- ) See you tomorrow morning. REFUEL			

From / To	Flight Description	Course (Leg)	Dist. (Leg)	ETE (Leg)
Nice, Cote d'Azur, France  (LFMN)  to  Orly, Paris, France  (LFPO)	Charter Leg: 324-09-09 Initial Altitude – 8500 MSL			
	Dpt Rwy 22R, (Elev 9, Length 8425 x 148, asphalt)			
	= After takeoff turn right DIR CGS VOR			
	= Cagnes-Sur-Mer, CGS VOR (109.2) -----	297	5	0+02
	= Digne, DGN VOR (113.85) -----	297	50	0+20
	= Grenoble, WS NDB (291.0) -----	336	92	0+36
	= Autun, ATN VOR (114.9) -----	340	94	0+37
	= Auxerre, AX NDB (417.0) -----	338	74	0+29
	BOD to 3000 MSL			
	= Melun, MV NDB (434.0) -----	335	43	0+17
	BOD to 2500 MSL			
	= Orly (Paris), OYE NDB (349.0) -----	308	21	0+09
= ILS OLW Rwy 26 (111.75, Hdg 258) -----	258	6	0+03	
Land Rwy 26, (Elev 291, Length 10882 x 148, concrete)				
	Approximate Totals		384	2+33

From / To	Flight Description	Course (Leg)	Dist. (Leg)	ETE (Leg)
<b>Orly, Paris, France</b>  <b>(LFPO)</b>  <b>to</b>  <b>Cologne (Bonn), Germany</b>  <b>(EDDK)</b>	<b>Charter Leg: 324-09-10</b> <b>Initial Altitude – 700 MSL</b>  Dpt Rwy 07, (Elev 291, Length 11961 x 148, concrete)  = After takeoff, Rwy Hdg to river, turn left and follow the Seine = Fix05, Palais Omnisports (large green stadium on right) ----- = Fix06, Notre Dame Cathedral (on 2nd island in river) ----- = Fix08, Louvre Museum (on right) ----- = Fix09, Petit Palace (5 sided) & Grand Palace (atrium, green roof, both on right) ----- Fly to the right, over Palaces, follow broad boulevard, the Avenue des Champs Elysees <b>Hang on, the next sightseeing points come quick and fast! Slow to approx 110 kts.</b>			
			13	0+06
			1	0+00:30
			1	0+00:30
			0.7	0+00:15
		309	1	0+00:30
		290		
	= Fix10, Arc de Triomphe ----- = Follow the broad avenue to the river and turn Left (about 90 deg) and follow river. -----  = When the Eiffel Tower is off your left wing tip, turn 90 deg to Left and aim for Soccer Stadium. = Descend to 250 MSL in the following turns  = Immediately make a 90 deg Left turn followed by a 90 deg Right turn (approx 040). Roll out approx Hdg 135 and the Eiffel Tower should be straight ahead  = Fix19, Eiffel Tower (fly under the tower) -----  There is a lot of radio chatter trying to identify a low flying DC-3. It's time to get out of Paris. <b>Continued ==&gt;</b>			
		135	4	0+02

<b>From / To</b>	<b>Flight Description</b>	<b>Course (Leg)</b>	<b>Dist. (Leg)</b>	<b>ETE (Leg)</b>
<b>(continued)</b>  <b>Orly, Paris, France  (LFPO)</b>  <b>to</b>  <b>Cologne-Bonn, Germany  (EDDK)</b>	<b>Charter Leg: 324-09-10 (continued)</b> <b>Initial Altitude – 5500 MSL</b>  = After passing under the Eiffel Tower, continue Hdg 125 and climb to 5500 MSL			
	= Orly (Paris), OYE NDB (349.0) -----	125	12	0+05
	= Boursonne, BSN VOR (114.85) -----	041	33	0+13
	= Reims, REM VOR (112.3) (VOR may be off the air) -----	082	39	0+15
	= Montmedy, MMD VOR (109.4) -----	086	42	0+17
	= Luxembourg, WLU NDB (346.0) -----	075	38	0+15
	BOD to 3000 MSL			
	= Mendig, NMN NDB (331.0) -----	047	68	0+27
	= Cologne-Bonn, LV NDB (327.0) -----	356	6	0+02
	= ILS 32R (109.7, Hdg 319) -----	319	4	0+02
	Intercept Glide Slope prior to Localizer			
	= Land Rwy 32R, (Elev 301, Length 12495 x 197, asphalt)			
	<b>Approximate Totals</b>		287	1+55

<b>From / To</b>	<b>Flight Description</b>	<b>Course (Leg)</b>	<b>Dist. (Leg)</b>	<b>ETE (Leg)</b>
<b>Cologne-Bonn, Germany  (EDDK)  to  Tempelhof, Berlin, Germany  (EDDI)</b>	<b>Charter Leg: 324-09-11</b>			
	<b>Initial Altitude – 5500 MSL</b>			
	Dpt Rwy 07, (Elev 301, Length 8050 x 148, concrete) = After takeoff DIR LW NDB, Hdg 067, climb to 5500 MSL			
	= Cologne-Bonn, LW NDB (300.5) -----	067	5	0+02
	= Kassel, KSL NDB (349.0) -----	068	90	0+36
	= Magdeburg, MAG VOR (110.45) -----	069	92	0+37
	BOD to 2000 MSL			
	= Schonefeld (Berlin), MW NDB (309.0) -----	069	62	0+25
	= Planter, DIP NDB (327.0) -----	021	8	0+03
	BOD to 1000 MSL			
	= Fix01, Fernsehturm Tower (with sphere impaled about 2/3 to top) is 368 meters (over 1200 feet) tall (fly right of the tower)-- Turn left to 260	323	3.5	0+01
	= Fix02, Reichstag (seat of Bundestag or federal government) ---- Turn left to 249	260	1	0+00:20
	= Fix03, Siegessaule Monument (in Tiegarten, Animal Garden) -- Overfly the Monument and execute a 90 / 270 turn	249	1.3	0+00:30
	Overfly the Monument again – eastward toward Tower			
	= Fix05, Brandenburg Tor (Gate) ----- Make 180 deg turn to right, approx Hdg 238, DIR DBR NDB	072	1.5	0+00:30
	= Helmholtz, DBR NDB (347.0) ----- At DBR NDB, execute procedure turn, outbound 250 for 2 minutes, right turn to final approach heading, 088 -----	238	5	0+02
	= ILS Rwy 09R (109.7, Hdg 088) -----	250/088 088		0+05 0+02
	= Land Rwy 09R, (Elev 160, Length 6025 x 139, asphalt)			
	<b>Approximate Totals</b>		272	1+50