



EUROCONTROL Short- and Medium-Term Forecast of Service Units: May 2011 Update

Summary:

This document presents the forecast of total service units in Europe¹ for 2011-2016 prepared by the Statistics and Forecast Service of EUROCONTROL (STATFOR). This forecast aims principally to support the deliberations of the Enlarged Committee for Route Charges and the preparation of performance plans for air navigation services for the first reporting period, 2012-2014.

This update has been produced in a difficult context due to political unrest in North Africa that has in particular affected the traffic over Malta and Italy and other South European States. Such a context has led us to consider a scenario for recovery from the current situation in Tunisia, Egypt and Libya, but the forecast has been able to include only one such scenario despite many others exist. For Egypt and Tunisia, the scenario has a gradual recovery but still some reduction in 2012. For Libyan overflights, we also include a gradual restoration of flights from this summer. The uncertainty of this recovery scenario adds to the risks to the forecast that are published in this report.

The forecast for 2011 in EUROCONTROL current member states (CRCO11) is of 122.7 million SU, a growth of 4.5% compared to the 117.4 million SU observed in 2010. This is a significant revision downwards by 0.9% compared to what was published in February 11, and consistent with the decline in flight growth over the period. However, not all States have been revised accordingly with some still revised up to reflect the growth of the last few months as their traffic has been further recovering or increasing in their area whereas many others have been revised down as a consequence to the traffic disruption from/to North Africa, in particular to Tunisia, Egypt and over Libya.

The total service units in CRCO11 are forecast to grow by 3.8% in 2012 compared to 2011 forecast service units and reach around 127.4 million.

By 2016, the total service units in CRCO11 are forecast to reach around 143.8 million, 22% above the 117.4 million recorded in 2010. The growth is faster in the early years, particularly in 2011 which bounces back from the relatively low 2010 due to the ash-cloud crisis of April-May 2010. The growth then slows down in the later years averaging at 3.4% annually between 2010 and 2016, again with individual differences at the State level. However, compared to the levels previously forecasted for 2015, the total service units are expected, on average, to be lower by 0.9%, mainly because of the average growth reduction in 2011.

The short- term forecast of service units will next be updated in September 2011.

Comments are welcome at statfor.info@eurocontrol.int.

¹ Here "Europe" refers both to States within EUROCONTROL 2011 charging area (CRCO11) and to States covered by the performance scheme (Regulation (EC) No 691/2010 of 29 July 2010) identified as PScheme.

1. INTRODUCTION

This report contains an update of the forecast of service units for 2011-2016. This update mainly takes into account the latest data on total service units to renew the short-term forecast (2011-2012). The medium-term forecast (2013-2016) has then been re-aligned to take into account these changes, rather than fully updated.

The forecast is mainly directed towards the EUROCONTROL States participating in the Multilateral Route Charges System, down to individual charging area level. The medium-term forecast period 2013-2014 is also of interest for the countries participating in the EU-wide performance target setting. The geographical scope of the EU-wide performance target scheme covers the 27 EU Member States plus Norway and Switzerland², referred to here in total as "PScheme".

Section 2 describes the forecasting methodology, section 3 summarises the past evolution of total service units and section 4 and 5 respectively discuss the main short-term and medium-term forecast results, while section 6 highlights some of the key risks to the forecast. The first Annex details the methodology, whereas in the last two Annexes, one for the short-term forecast, one for the medium-term forecast, are attached tables that present the forecasts for individual States participating in the Multilateral Route Charges System or covered by the performance scheme (Regulation (EC) N° 691/2010 of 29 July 2010).

2. FORECASTING METHODOLOGY

The forecast process uses both monthly data of total service units recorded in the route charges system from January 1990 (or first month of operation in the route charges system) up to and including April 2011 as well as flight information such as the average maximum take-off weight (MTOW) and distance flown up to and including January 2011. The forecast is based on a combination of two parallel approaches:

- The short-term forecast (2011-2012), as it has been for many years, is mainly based on time-series modelling of trends and seasonal and cyclical patterns in actual monthly service units. It also relies strongly on the flight forecast³ and thus picks up future information (economic growth forecasts, schedule data, future events etc) that is included in the flight forecast.
- The medium-term forecast (2013-2016) uses the flight forecast⁴ as well as trends in the evolution of average distances and MTOW of the flights across each State.

The detailed forecasting methodology can be found in Annex A.

There are a number of credible scenarios for recovery from the current situation in Tunisia, Egypt and Libya. The forecast has been able to include only one such scenario. For Egypt and Tunisia, we have included a gradual recovery but still some reduction in 2012. For Libyan overflights, the scenario also includes a gradual restoration of flights. Even if the no-fly zone were removed at the beginning of July, return to positive growth would be gradual.

² ICAO Oceanic airspace regions Bodø (Norway), NOTA and SOTA (Ireland) and Canaries FIR are also included. Santa Maria FIR being operationally very different from the other included areas is not covered.

³ EUROCONTROL Short-Term Forecast: IFR Flight Movements 2011-2012, STATFOR Doc 431, May 2011

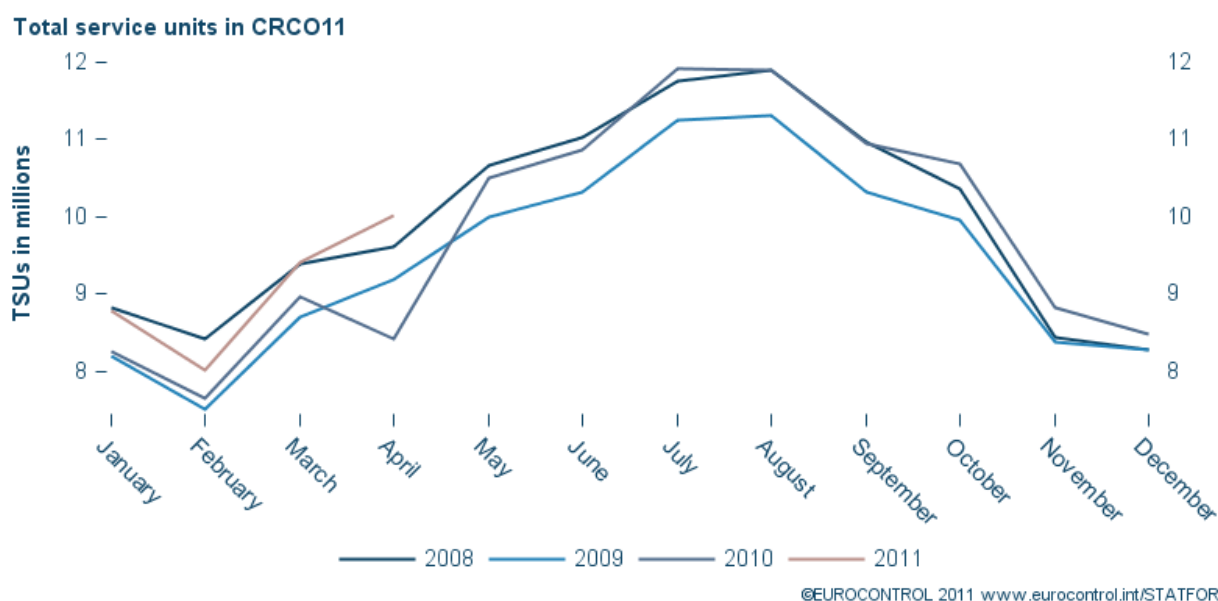
⁴ EUROCONTROL Medium-Term Forecast: IFR Flight Movements 2011-2017, STATFOR Doc 418, February 2011

3. RECENT EVOLUTION OF TOTAL SERVICE UNITS

Figure 1 presents the monthly evolution of the total service units (TSUs) recorded in the member states of EUROCONTROL in 2011 (CRCO11), from January 2008 to April 2011.

Service units in 2011 started at greater volumes than in 2009. However, whereas the levels of 2008 had been recovered by the end of 2010, the levels in TSUs that were observed in January and February 2011 were lower than those of 2008 as a consequence of the political unrest in North Africa and in the Middle East, and because early 2008 was much stronger than later in the year. Since March 2011 the TSUs have again exceeded 2008 levels, with a recovery in April 11 from the drop due to the ash-cloud crisis (with a growth of +19% compared to last year). This confirms the faster recovery of TSUs compared to flights.

Figure 1. Evolution of total service units recorded in CRCO11 area in 2008-2011



4. SHORT-TERM FORECAST RESULTS: 2011-2012

Figure 6 presents the 2011 and 2012 total service units forecast per State prepared by EUROCONTROL/STATFOR on behalf of CRCO at the end of May 2011.

The forecast for 2011 in current EUROCONTROL member states (CRCO11) is of 122.7 million SU, a growth of 4.5% compared to the 117.4 million SU observed in 2010. This is a significant revision downwards by 0.9% compared to what was published in February 11. This change is consistent with the flight forecast and largely explained by the traffic disruption caused by the recent events in North Africa, in particular in Tunisia, Egypt and Libya that have resulted in a reduction of the number of flights to these countries, as well as to some re-routing to avoid the no-fly zone over Libya.

However, if the forecast TSU of most countries have consequently been revised downwards, the results vary significantly from state to state. Italy, Greece and Cyprus are the countries that are the most affected downwards by the recent changes, with a growth down to almost 0% expected in 2011, even a small decline in the case of Italy. On the opposite, the TSU growths of some northern European countries such as Sweden, Norway and Finland have been revised upwards as were the growths of some south-eastern European countries that have benefited from the re-routing of some flows to Turkey and the Middle-East.

Malta is a special case: whereas its level of traffic has significantly dropped, this has not affected to the same rate its TSUs: thanks to a very strong growth in March 2011 (+48.3% compared to March 2010), the total service units of Malta are still expected to grow by 3.3% in 2011 as a whole. However this figure has to be taken carefully as the recent change in the trend of the service units makes the uncertainty of this forecast high. What is also significant about Malta, and to a lesser extent about Italy, is the recent decrease of the percentage of chargeable service units (CSU) compared to the TSUs: In April 11 in Malta, less than 70% of the TSU were chargeable compared to the usual 96.7%. We do not normally change the TSU-to-CSU ratio in-year, but in these exceptional circumstances, these changes have been taken into account in Figure 7. The other states have not appeared to be significantly affected by a

change in the chargeable percentage of TSUs.

The total service units in the EUROCONTROL member states (CRCO11) are forecast to grow by 3.8% in 2012 compared to 2011 forecast service units and reach around 127.4 million, 1 million service units lower than what was forecast in February 11.

It is important to bear in mind that these forecasts rely on the flight forecasts³ that have made some assumptions with regards to the traffic recovery from and to Tunisia, Egypt and over Libya. Whether these assumptions will be fully met is unknown: section 6 discusses the risks.

Estimates of chargeable service units per State in 2011 and 2012, based on EUROCONTROL SU forecasts and numbers of exempted service units in 2010, are presented in Figure 7. The chargeable service units in ESRA02 in 2011 and 2012 are estimated to amount to around 112.8 million and 116.8 million respectively.

5. MEDIUM-TERM FORECAST RESULTS: UP TO 2016

At the request of States, the forecast has been extended to 2016 for this May update. The forecast for 2013-2015 has not been fully updated, but re-aligned to account for the latest trends of the 2011-2012 forecasts. This has generated some differences in the results compared to the February release.

For the member states of EUROCONTROL in 2011 ("CRCO11"), total service units (TSUs) are forecasted to be about 22% higher in 2016 than in 2010, reaching in total around 143.8 millions compared to 117.4 millions in 2010. This represents an average annual growth (AAGR) of around 3.4%. The annual growth is expected to slow down from 2013 to reach an average of around 3.1%. The low- to high-forecast range for the TSUs in 2016 is estimated to stand between 135.4 and 155.5 million service units, which represent an increase of 15% to 32% compared to 2010, respectively.

These growth figures between 2010 and 2015 are expected to be slightly lower if we look over the states that are within the EU Performance Scheme in 2011 ("PScheme" in Figure 8): by around 2% for the total growth in TSUs and by around 0.4% for the average annual growth. This can be explained by the fact that this aggregate region does not include States that are expected to encounter a much stronger growth in TSUs than elsewhere in Europe, such as Turkey and Croatia. On average, over the states involved in the EU performance scheme from 2012, the annual growth is not expected to be much different from what was expected according to the February 2011 forecasts⁵. However, compared to the levels previously forecasted for 2015, the TSUs are expected on average to be lower by 0.9% because of the average growth reduction in 2011.

Figure 3 compares the evolution of the forecast between the February 2011⁵ forecast and this new forecast release for the EUROCONTROL member states in 2011 (CRCO11).

The average annual growth figures per State can be found in the map in

Figure 4. The detailed forecasts for each State are in Annex C.

⁵ EUROCONTROL Short- and Medium- Term Forecast of Service Units: February 2011, STATFOR Doc424 v1.1

Figure 2: Summary of forecast of total service units in Europe

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2016/ 2010 Total Growth
Total service units (thousands) CRCO11*	H	.	.	.	.	.	.	123,912	130,302	136,243	142,372	148,667	155,473	32%
	B	100,425	105,009	112,674	119,521	113,434	117,393	122,733	127,367	131,011	135,181	139,391	143,797	22%
	L	.	.	.	.	.	.	121,582	124,590	126,798	129,606	132,415	135,363	15%
Total service units (thousands) PScheme **	H	.	.	.	.	.	.	105,928	110,932	115,587	120,400	125,321	130,604	30%
	B	89,897	93,853	99,670	104,934	98,095	100,632	104,976	108,545	111,301	114,449	117,628	120,921	20%
	L	.	.	.	.	.	.	104,048	106,287	107,843	109,871	111,903	114,010	13%
		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2016/ 2010 AAGR
Annual growth CRCO11	H	.	.	.	.	.	.	5.6%	5.2%	4.6%	4.5%	4.4%	4.6%	4.8%
	B	5.9%	4.6%	6.4%	2.9%	-5.2%	3.5%	4.5%	3.8%	2.9%	3.2%	3.1%	3.2%	3.4%
	L	.	.	.	.	.	.	3.6%	2.5%	1.8%	2.2%	2.2%	2.2%	2.4%
Annual growth PScheme	H	.	.	.	.	.	.	5.3%	4.7%	4.2%	4.2%	4.1%	4.2%	4.4%
	B	5.2%	4.4%	6.2%	1.7%	-6.5%	2.6%	4.3%	3.4%	2.5%	2.8%	2.8%	2.8%	3.1%
	L	.	.	.	.	.	.	3.4%	2.2%	1.5%	1.9%	1.8%	1.9%	2.1%

* CRCO11 designates the sum over all the states participating in the Multilateral Route Charges System in 2011 of all TSUs either measured or forecasted for the corresponding year.

** PScheme stands for the sum over all the 29 states that are currently involved in the EU-wide performance target setting (27 EU member states plus Norway and Switzerland)

Figure 3: Comparison 2011-2015 of the forecast between the May 2011 update and February 2011 for CRCO11 Area (Source: EUROCONTROL)

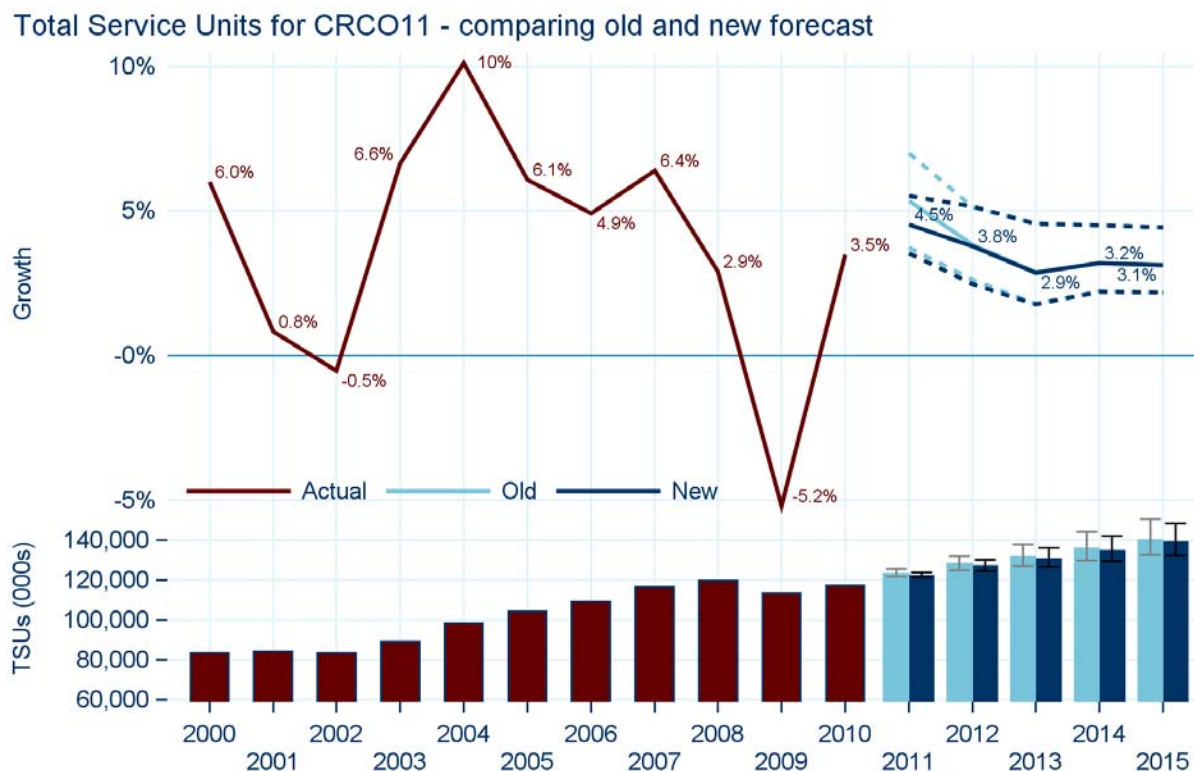
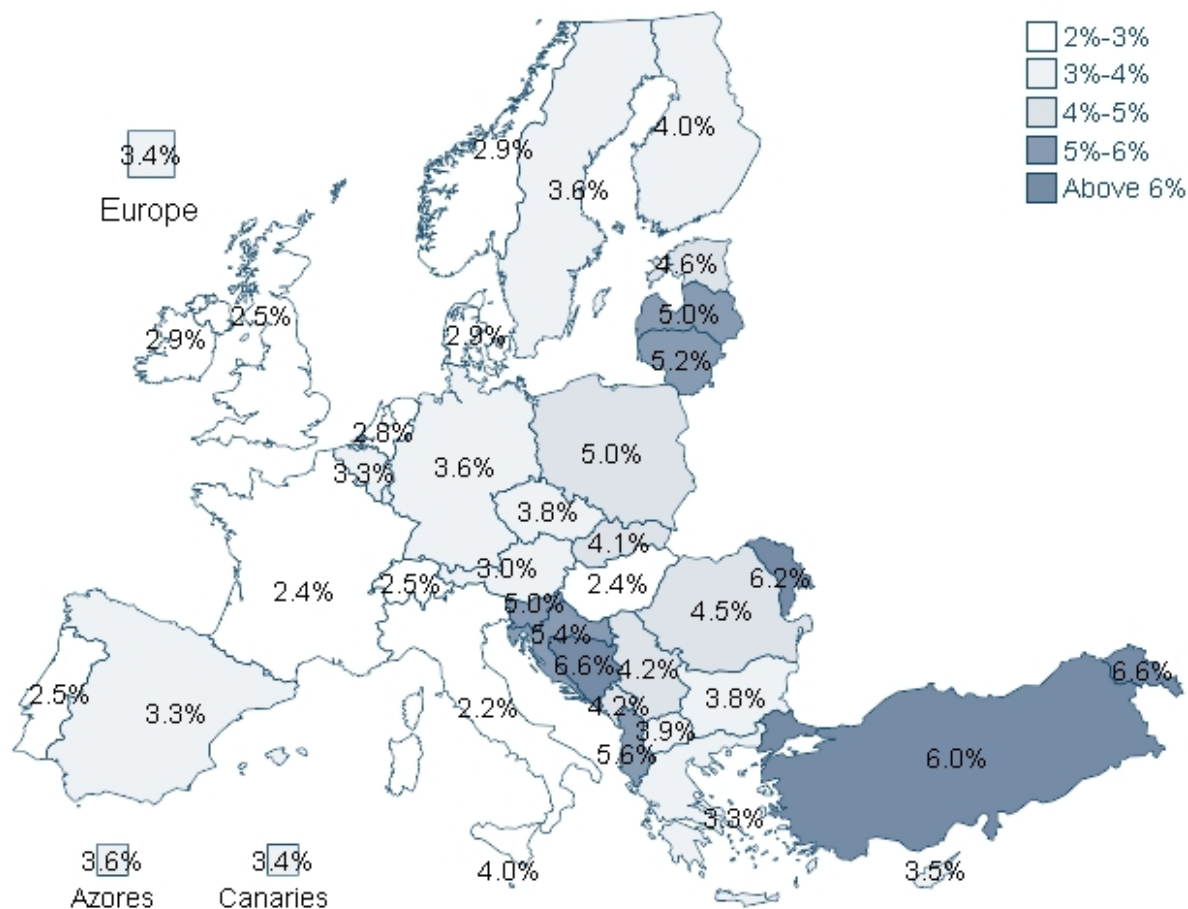


Figure 4: Average annual growth of service units between 2011 and 2016 (Source: EUROCONTROL)



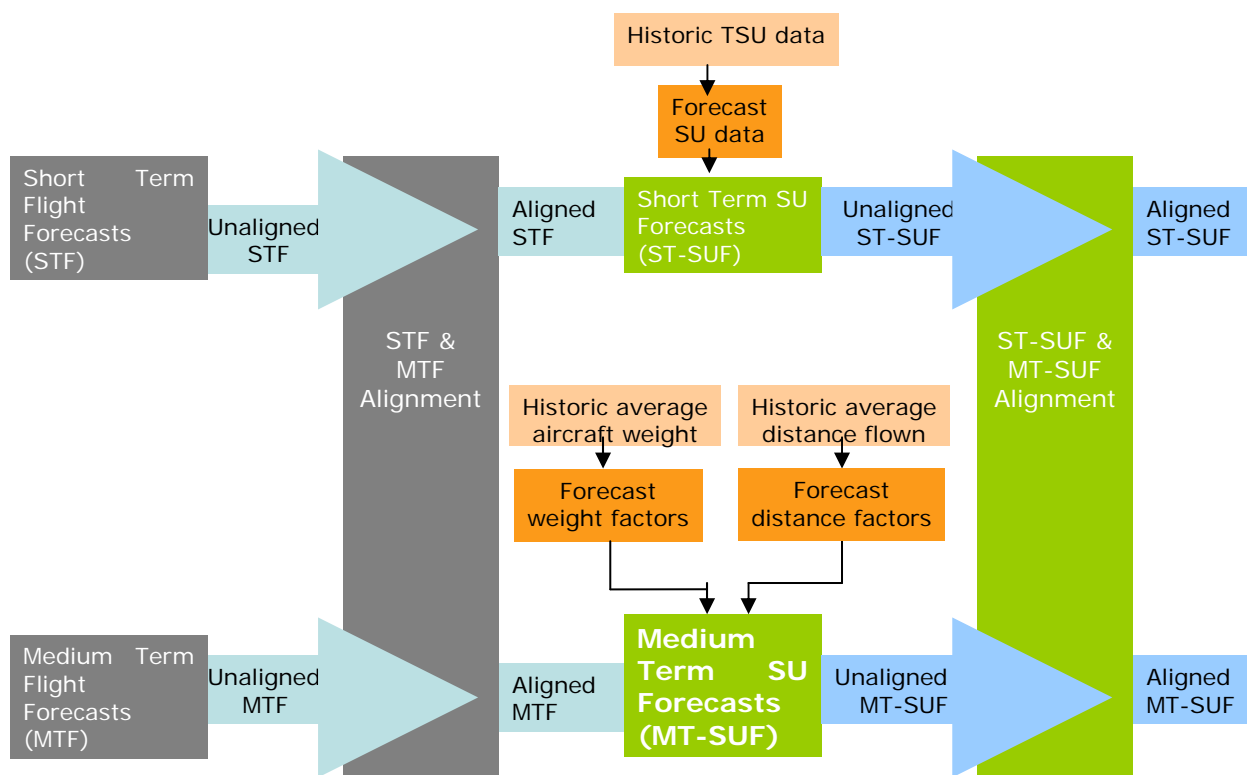
6. RISKS TO THE FORECAST

Users of the forecast are strongly advised to use the forecast range (low growth to high growth) as an indicator of risk. This range captures some of the uncertainty in factors such as economic growth, load factors, the entry into force of the Emission Trading Scheme and the continuing rise of oil prices. However, the forecast range can not capture all of the risks and the actual range of the forecast is potentially wider. In particular, other sources of uncertainty in the forecast include:

- Tourism trends are quite variable. Recent events in Tunisia and Egypt are likely to lead to a fair proportion of European holidaymakers transferring to other Mediterranean destinations for summer (e.g. Spain continental, Greece, Canarias, Turkey). This has affected significantly some of the flows, as well as some growth figures, in particular for some of the south-eastern European countries whose overflight traffic departs from, or lands in Egypt or in the Middle East. This trend is expected to evolve and a scenario has been chosen to estimate the traffic recovery to Tunisia, Egypt, and over Libya. However, other recovery scenarios are certainly possible, and in particular the potential for a slower recovery for Libya means strong downside risks for Malta.
- Overflight patterns on the South-East axis remain particularly fluid. Though overflight growth is currently weaker on Hungary-Romania routings and stronger further South, this has the potential to reverse if capacity gaps emerge and start causing delays.
- Forecasts for Armenia, Serbia & Montenegro, Poland and Lithuania must be treated with extra care as these are based on a limited set of historical data. The forecasts for Latvia and Estonia are only based on annual total service units figures that may lack precision for the quality of the forecasts. These regions are not included in the aggregated zones CRCO88, ESRA02 but are included in the TOTAL.

A. Detailed forecasting methodology

Figure 5. Service units forecast method



The overall forecast method and tool have been finalised in the first half of 2010. The forecasting methodology is in two parts, the short-term forecast and medium-term forecast being produced by two independent means. However; these two forecasts are later realigned for the first 2-year look ahead period, the scope of the short-term forecast, to account for the fact that the short-term forecast, which is based on time-series modelling of trends and seasonal and cyclical patterns in actual monthly service units, is usually better in capturing latest developments and giving the short-term outlook.

The short-term forecast is based on time series analysis, using actual monthly data of total service units recorded in the route charges system from January 1990 (or first month of operation in the route charges system). The latest EUROCONTROL flight forecast and medium-term forecast of service units prepared are used as supporting information in developing this forecast of service units. The actual data for April and May 2010 have been adjusted for the drop in service units due to flight cancellations resulting from the eruption of the Eyjafjallajökull volcano, as well as the actual data for December 2010 for the drop caused by the major snow falls in Europe. Some local corrections were also introduced to compensate for some loss of service units that could be attributed to local strikes.

The method for the medium-term forecast of the service units adopts the structure for calculating the en route service units in reality: it combines forecasts of **distance factors** and **weight factors** with the **number of flights** as forecast by the latest EUROCONTROL Medium-Term Forecast of flight movements, thus making these two forecasts compatible. The future distance and weight factors are derived from observed historical trends in average flown distance and average MTOW of aircraft on arrivals, departures, internals and overflights in each charging area.

For managing risk related to future traffic uncertainty, in addition to a base central figure the medium-term forecast produces also high and low values. Overall, the future total service units can be expected to be between these about half of the time. The EUROCONTROL forecast of service units is impartial in that it uses the same method for all the States. However, users should note that for the medium-term forecasts, the forecast modelling as well as the results are based on a relatively short history of data (starting mostly in January 2003) which did not allow full assessment of the forecast performance for the complete 5-year horizon and thus its results should be treated with care.

B. State-by-state short-term forecast of service units

Figure 6. Forecast of total service units in 2011-2012 – May 2011

Charging Area		2010 Actual TSU	2011 STATFOR Forecast TSU	2011/2010 Forecast Growth	2012 STATFOR Forecast TSU	2012/2011 Forecast Growth	2011 States Forecast TSU	current 2011 STATFOR/States
EB	Belgium/Luxembourg	2.114.555	2.199.997	4.0%	2.283.649	3.8%	2.170.349	1.4%
ED	Germany*	12.294.212	12.854.369	4.6%	13.389.912	4.2%	13.017.250	-1.3%
LF	France	16.636.697	17.462.215	5.0%	17.937.341	2.7%	17.367.156	0.5%
EG	UK	9.480.262	9.866.968	4.1%	10.090.227	2.3%	9.971.189	-1.0%
EH	Netherlands	2.476.273	2.600.940	5.0%	2.682.871	3.2%	2.555.000	1.8%
EI	Ireland	3.615.036	3.798.270	5.1%	3.903.557	2.8%	3.631.000	4.6%
LS	Switzerland	1.409.298	1.442.040	2.3%	1.486.901	3.1%	1.450.306	-0.6%
LP	Lisbon FIR	2.624.149	2.811.249	7.1%	2.895.632	3.0%	2.757.489	1.9%
LO	Austria	2.448.711	2.533.370	3.5%	2.639.879	4.2%	2.600.000	-2.6%
LE	Spain	8.641.861	9.207.865	6.5%	9.540.591	3.6%	9.109.567	1.1%
GC	Canary Islands	1.539.855	1.643.565	6.7%	1.693.255	3.0%	1.617.722	1.6%
AZ	Santa Maria FIR	3.696.385	3.883.997	5.1%	4.008.916	3.2%	3.833.853	1.3%
LG	Greece	4.454.155	4.507.305	1.2%	4.698.176	4.2%	4.560.079	-1.2%
LT	Turkey	8.923.420	9.397.551	5.3%	10.004.008	6.5%	9.711.049	-3.2%
LM	Malta	486.800	502.727	3.3%	514.398	2.3%	502.000	0.1%
LI	Italy	8.621.257	8.546.117	-0.9%	8.642.570	1.1%	9.066.765	-5.7%
LC	Cyprus	1.351.886	1.360.150	0.6%	1.403.220	3.2%	1.440.000	-5.5%
LH	Hungary	2.091.322	2.096.386	0.2%	2.151.916	2.6%	2.139.950	-2.0%
EN	Norway	1.582.742	1.698.379	7.3%	1.745.882	2.8%	1.607.304	5.7%
EK	Denmark	1.410.791	1.481.313	5.0%	1.543.038	4.2%	1.524.000	-2.8%
LJ	Slovenia	365.201	406.554	11.3%	426.968	5.0%	368.107	10.4%
LR	Romania	3.414.282	3.465.466	1.5%	3.611.766	4.2%	3.537.500	-2.0%
LK	Czech Republic	2.190.096	2.316.245	5.8%	2.419.080	4.4%	2.255.969	2.7%
ES	Sweden	2.950.007	3.120.920	5.8%	3.248.268	4.1%	3.109.178	0.4%
LZ	Slovakia	855.572	890.461	4.1%	929.867	4.4%	944.000	-5.7%
LD	Croatia	1.450.834	1.583.444	9.1%	1.716.979	8.4%	1.507.000	5.1%
LB	Bulgaria	1.839.757	1.918.428	4.3%	2.002.244	4.4%	1.785.000	7.5%
LW	FYROM	183.280	195.390	6.6%	200.332	2.5%	194.000	0.7%
LU	Moldova	181.460	196.841	8.5%	212.977	8.2%	176.377	11.6%
EF	Finland	739.502	825.662	11.7%	854.335	3.5%	772.943	6.8%
LA	Albania	403.785	437.541	8.4%	474.776	8.5%	430.700	1.6%
LQ	Bosnia-Herzegovina	637.009	712.997	11.9%	773.256	8.5%	692.607	2.9%
UD	Armenia	146.071	168.823	15.6%	181.128	7.3%	153.407	10.0%
LY	Serbia & Montenegro	1.819.215	1.903.515	4.6%	2.008.578	5.5%	1.847.045	3.1%
EP	Poland	3.312.823	3.600.244	8.7%	3.898.889	8.3%	3.587.255	0.4%
EY	Lithuania	370.823	409.819	10.5%	431.858	5.4%	3.947.100	3.8%
EE	Estonia	680.000	723.398	6.4%	759.056	4.9%	700.000	3.3%
EV	Latvia**	634.000	685.808	8.2%	719.934	5.0%	660.000	3.9%
CRCO88	CRCO88	66.977.294	70.304.845	5.0%	72.552.732	3.2%	70.080.880	0.3%
ESRA02	ESRA02	110.069.659	114.814.183	4.3%	118.878.753	3.5%	115.282.101	-0.4%
CRCO11	CRCO11	117.393.384	122.732.931	4.5%	127.367.172	3.8%	123.047.825	-0.3%
PScheme	PScheme	100.631.926	104.976.229	4.3%	108.545.279	3.4%	105.201.787	-0.2%
TOTAL	Total	118.073.384	123.456.328	4.6%	128.126.227	3.8%	123.747.825	-0.2%

* includes service units for flight segments performed as Operational Air Traffic. Estimated number in Germany is 95.000 per year.

** Latvia has only joined EUROCONTROL member states in 2011. Before that date, only yearly data was available for the TSUs.

Figure 7. Forecast of chargeable service units in 2010-2011 – May 2011

Charging Area		2010 Actual TSU	2011 STATFOR Forecast TSU	2012 STATFOR Forecast TSU	2010 Actual Exempted SU in %	2010 Actual Chargeable SU in %	2011 Chargeable SU Estimate	2012 Chargeable SU Estimate
EB	Belgium/Luxembourg	2.114.555	2.199.997	2.283.649	1.4%	98.6%	2.169.100	2.251.600
ED	Germany*	12.294.212	12.854.369	13.389.912	1.2%	98.8%	12.703.700	13.233.000
LF	France	16.636.697	17.462.215	17.937.341	1.1%	98.9%	17.270.500	17.740.400
EG	UK	9.480.262	9866968	10090227	1.7%	98.3%	9697700	9917100
EH	Netherlands	2.476.273	2.600.940	2.682.871	1.2%	98.8%	2.568.600	2.649.500
EI	Ireland	3.615.036	3.798.270	3.903.557	1.9%	98.1%	3.726.600	3.829.900
LS	Switzerland	1.409.298	1442040	1486901	0.3%	99.7%	1437900	1482600
LP	Lisbon FIR	2.624.149	2.811.249	2.895.632	2.0%	98.0%	2.756.200	2.838.900
LO	Austria	2.448.711	2.533.370	2.639.879	0.3%	99.7%	2.526.300	2.632.500
LE	Spain	8.641.861	9.207.865	9.540.591	1.4%	98.6%	9.079.400	9.407.500
GC	Canary Islands	1.539.855	1.643.565	1.693.255	0.9%	99.1%	1.628.300	1.677.500
AZ	Santa Maria FIR	3.696.385	3.883.997	4.008.916	3.8%	96.2%	3.737.000	3.857.200
LG	Greece	4.454.155	4.507.305	4.698.176	2.6%	97.4%	4.391.600	4.577.500
LT	Turkey	8.923.420	9.397.551	10.004.008	3.1%	96.9%	9.105.500	9.693.100
LM	Malta**	486.800	502.727	514.398	17.1%	82.9%**	416.800	426.400
LI	Italy**	8.621.257	8.546.117	8.642.570	5.7%	94.3%**	8.059.000	8.149.900
LC	Cyprus	1.351.886	1.360.150	1.403.220	1.2%	98.8%	1.343.500	1.386.000
LH	Hungary	2.091.322	2.096.386	2.151.916	2.2%	97.8%	2.050.800	2.105.100
EN	Norway	1.582.742	1.698.379	1.745.882	1.2%	98.8%	1.678.200	1.725.100
EK	Denmark	1.410.791	1.481.313	1.543.038	0.7%	99.3%	1.471.300	1.532.600
LJ	Slovenia	365.201	406.554	426.968	0.5%	99.5%	404.500	424.800
LR	Romania	3.414.282	3.465.466	3.611.766	3.2%	96.8%	3.353.300	3.494.800
LK	Czech Republic	2.190.096	2.316.245	2.419.080	3.3%	96.7%	2.240.000	2.339.500
ES	Sweden	2.950.007	3.120.920	3.248.268	0.4%	99.6%	3.108.300	3.235.200
LZ	Slovakia	855.572	890.461	929.867	0.1%	99.9%	889.300	928.600
LD	Croatia	1.450.834	1.583.444	1.716.979	0.3%	99.7%	1.578.700	1.711.800
LB	Bulgaria	1.839.757	1.918.428	2.002.244	1.0%	99.0%	1.898.800	1.981.800
LW	FYROM	183.280	195.390	200.332	0.2%	99.8%	195.000	199.900
LU	Moldova	181.460	196.841	212.977	0.1%	99.9%	196.700	212.800
EF	Finland	739.502	825.662	854.335	0.8%	99.2%	819.000	847.400
LA	Albania	403.785	437.541	474.776	0.6%	99.4%	435.000	472.000
LQ	Bosnia-Herzegovina	637.009	712.997	773.256	0.1%	99.9%	712.200	772.400
UD	Armenia	146.071	168.823	181.128	0.2%	99.8%	168.600	180.800
LY	Serbia & Montenegro	1.819.215	1.903.515	2.008.578	0.1%	99.9%	1.901.900	2.006.800
EP	Poland	3.312.823	3.600.244	3.898.889	0.5%	99.5%	3.582.300	3.879.400
EY	Lithuania	370.823	409.819	431.858	0.4%	99.6%	408.300	430.300
EE	Estonia	680.000	723.398	759.056	1.7%	98.4%	711.500	746.500
EV	Latvia	634.000	685.808	719.934	1.7%	98.4%	674.500	708.100
CRCO88	CRCO88	66.977.294	70.304.845	72.552.732	1.9%	98.1%	68.961.300	71.172.600
ESRA02	ESRA02	110.069.659	114.814.183	118.878.753	1.7%	98.3%	112.834.300	116.828.800
CRCO11	CRCO11	117.393.384	122.732.931	127.367.172	1.9%	98.1%	120.372.900	124.926.300
PScheme	PScheme	100.631.926	104.976.229	108.545.279	1.8%	98.2%	103.054.200	106.564.900
TOTAL	Total	118.073.384	123.456.328	128.126.227	1.9%	98.1%	121.084.300	125.672.800

* includes service units for flight segments performed as Operational Air Traffic. Estimated number in Germany is 95.000 per year.

** The Chargeable SU in % has been modified for these 2 countries to account for its recent reduction due to an increase in the military traffic in these 2 areas (the average between the March and April 11 % have been considered). Note this % can still change during the year.

C. Medium-term forecast results per State

This annex shows the EUROCONTROL medium-term forecast of service units per individual charging area. Forecasts for Armenia, Lithuania, Poland and Serbia-Montenegro must be treated with extra care as they are based on a limited set of historical data.

Figure 8: Total service units per State and increase in total service units between 2010 and 2016

Total service units (thousands)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2016/ 2010 Total Growth
Albania	H	.	.	.	.	.	.	442	486	515	545	575	609	51%
	B	262	264	313	325	355	404	438	475	494	516	538	561	39%
	L	.	.	.	.	.	.	433	464	477	493	508	523	29%
Armenia	H	.	.	.	.	.	.	173	188	199	210	221	234	60%
	B	.	.	.	.	111	146	169	181	188	197	205	215	47%
	L	.	.	.	.	.	.	165	174	179	185	192	200	37%
Austria	H	.	.	.	.	.	.	2,568	2,734	2,854	2,973	3,092	3,215	31%
	B	2,235	2,342	2,509	2,566	2,424	2,449	2,533	2,640	2,706	2,781	2,855	2,930	20%
	L	.	.	.	.	.	.	2,499	2,550	2,585	2,632	2,679	2,728	11%
Belgium/Luxembourg	H	.	.	.	.	.	.	2,218	2,326	2,426	2,525	2,628	2,735	29%
	B	1,928	2,080	2,184	2,220	2,079	2,115	2,200	2,284	2,349	2,422	2,496	2,572	22%
	L	.	.	.	.	.	.	2,183	2,244	2,291	2,348	2,405	2,465	17%
Bosnia-Herzegovina	H	.	.	.	.	.	.	726	806	863	924	988	1,058	66%
	B	329	383	481	525	579	637	713	773	810	850	891	933	47%
	L	.	.	.	.	.	.	700	742	764	789	813	836	31%
Bulgaria	H	.	.	.	.	.	.	1,944	2,067	2,183	2,296	2,401	2,513	37%
	B	1,436	1,453	1,624	1,747	1,798	1,840	1,918	2,002	2,073	2,151	2,226	2,305	25%
	L	.	.	.	.	.	.	1,893	1,941	1,987	2,043	2,096	2,151	17%
Canary Islands	H	.	.	.	.	.	.	1,664	1,746	1,824	1,906	1,992	2,084	35%
	B	1,550	1,589	1,691	1,713	1,492	1,540	1,644	1,693	1,734	1,783	1,831	1,882	22%
	L	.	.	.	.	.	.	1,624	1,643	1,662	1,691	1,718	1,746	13%
Croatia	H	.	.	.	.	.	.	1,605	1,777	1,879	1,979	2,078	2,182	50%
	B	1,066	1,028	1,204	1,271	1,298	1,451	1,583	1,717	1,782	1,852	1,922	1,992	37%
	L	.	.	.	.	.	.	1,562	1,659	1,700	1,750	1,799	1,849	27%
Cyprus	H	.	.	.	.	.	.	1,371	1,429	1,515	1,603	1,691	1,789	32%
	B	1,008	1,057	1,178	1,311	1,273	1,352	1,360	1,403	1,463	1,528	1,593	1,664	23%
	L	.	.	.	.	.	.	1,350	1,380	1,425	1,475	1,526	1,581	17%
Czech Republic	H	.	.	.	.	.	.	2,342	2,486	2,599	2,721	2,845	2,977	36%
	B	1,867	1,896	1,940	2,019	2,023	2,190	2,316	2,419	2,488	2,569	2,651	2,735	25%
	L	.	.	.	.	.	.	2,291	2,356	2,401	2,460	2,517	2,576	18%
Denmark	H	.	.	.	.	.	.	1,496	1,579	1,629	1,679	1,732	1,787	27%
	B	1,326	1,395	1,480	1,474	1,359	1,411	1,481	1,543	1,572	1,606	1,641	1,675	19%
	L	.	.	.	.	.	.	1,467	1,508	1,526	1,549	1,573	1,598	13%
Estonia	H	.	.	.	.	.	.	734	784	829	875	922	972	43%
	B	530	580	660	690	670	680	723	759	790	823	857	891	31%
	L	.	.	.	.	.	.	713	735	758	783	809	835	23%
FYROM	H	.	.	.	.	.	.	197	205	216	226	237	249	36%
	B	157	173	182	182	180	183	195	200	207	215	223	231	26%
	L	.	.	.	.	.	.	194	196	201	208	214	220	20%

EUROCONTROL Short- and Medium-Term Forecast
of Service Units: May 2011 Update

Total service units (thousands)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2016/ 2010 Total Growth
Finland	H	.	.	.	.	.	.	836	878	908	940	976	1,013	37%
	B	727	738	745	791	727	740	826	854	872	891	913	934	26%
	L	.	.	.	.	.	.	816	831	840	852	864	876	18%
France	H	.	.	.	.	.	.	17,561	18,189	18,762	19,341	19,949	20,613	24%
	B	16,270	16,756	17,995	18,034	16,780	16,637	17,462	17,937	18,209	18,547	18,887	19,220	16%
	L	.	.	.	.	.	.	17,367	17,703	17,768	17,904	18,026	18,139	9%
Germany	H	.	.	.	.	.	.	12,929	13,564	14,191	14,859	15,552	16,297	33%
	B	11,109	11,712	12,419	12,749	11,913	12,294	12,854	13,390	13,786	14,237	14,690	15,160	23%
	L	.	.	.	.	.	.	12,783	13,232	13,478	13,779	14,066	14,352	17%
Greece	H	.	.	.	.	.	.	4,555	4,793	5,035	5,283	5,528	5,797	30%
	B	3,704	3,754	4,049	4,258	4,139	4,454	4,507	4,698	4,860	5,041	5,219	5,409	21%
	L	.	.	.	.	.	.	4,461	4,607	4,723	4,861	4,995	5,140	15%
Hungary	H	.	.	.	.	.	.	2,138	2,269	2,375	2,482	2,587	2,700	29%
	B	2,003	2,063	2,104	2,092	2,038	2,091	2,096	2,152	2,211	2,277	2,342	2,409	15%
	L	.	.	.	.	.	.	2,055	2,039	2,075	2,118	2,160	2,202	5%
Ireland	H	.	.	.	.	.	.	3,836	3,987	4,136	4,300	4,475	4,673	29%
	B	3,000	3,597	3,822	3,823	3,561	3,615	3,798	3,904	3,986	4,086	4,190	4,303	19%
	L	.	.	.	.	.	.	3,761	3,826	3,877	3,945	4,017	4,096	13%
Italy	H	.	.	.	.	.	.	8,649	8,915	9,327	9,774	10,253	10,777	25%
	B	7,833	8,049	8,620	8,660	8,145	8,621	8,546	8,643	8,878	9,165	9,478	9,804	14%
	L	.	.	.	.	.	.	8,445	8,378	8,486	8,650	8,828	9,018	5%
Latvia	H	.	.	.	.	.	.	692	736	781	827	874	922	45%
	B	491	545	626	656	596	634	686	720	751	785	819	852	34%
	L	.	.	.	.	.	.	680	705	730	758	784	810	28%
Lisbon FIR	H	.	.	.	.	.	.	2,833	2,947	3,037	3,127	3,207	3,305	26%
	B	2,405	2,516	2,631	2,677	2,501	2,624	2,811	2,896	2,929	2,962	2,990	3,036	16%
	L	.	.	.	.	.	.	2,791	2,848	2,838	2,839	2,841	2,853	9%
Lithuania	H	.	.	.	.	.	.	418	454	479	506	532	559	51%
	B	.	.	.	384	341	371	410	432	449	467	485	503	36%
	L	.	.	.	.	.	.	401	410	422	435	448	461	24%
Malta	H	.	.	.	.	.	.	513	542	575	610	646	688	41%
	B	311	326	377	422	416	487	503	514	537	562	587	617	27%
	L	.	.	.	.	.	.	492	488	503	520	537	558	15%
Moldova	H	.	.	.	.	.	.	201	224	238	254	270	288	59%
	B	65	70	93	115	139	181	197	213	224	235	247	260	43%
	L	.	.	.	.	.	.	193	203	211	220	230	239	32%
Netherlands	H	.	.	.	.	.	.	2,623	2,741	2,829	2,923	3,020	3,121	26%
	B	2,388	2,518	2,639	2,621	2,426	2,476	2,601	2,683	2,734	2,796	2,858	2,924	18%
	L	.	.	.	.	.	.	2,579	2,628	2,655	2,694	2,734	2,778	12%
Norway	H	.	.	.	.	.	.	1,721	1,803	1,855	1,909	1,965	2,026	28%
	B	1,315	1,342	1,420	1,537	1,495	1,583	1,698	1,746	1,774	1,807	1,839	1,875	18%
	L	.	.	.	.	.	.	1,676	1,691	1,706	1,727	1,747	1,771	12%
Poland	H	.	.	.	.	.	.	3,631	3,990	4,186	4,393	4,605	4,823	46%
	B	.	.	.	3,230	3,092	3,313	3,600	3,899	4,021	4,161	4,300	4,439	34%
	L	.	.	.	.	.	.	3,570	3,813	3,895	3,996	4,096	4,193	27%
Romania	H	.	.	.	.	.	.	3,501	3,695	3,964	4,241	4,522	4,822	41%
	B	3,286	3,300	3,236	3,240	3,133	3,414	3,465	3,612	3,802	4,008	4,218	4,436	30%
	L	.	.	.	.	.	.	3,431	3,536	3,685	3,852	4,022	4,196	23%

EUROCONTROL Short- and Medium-Term Forecast
of Service Units: May 2011 Update

Total service units (thousands)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2016/ 2010 Total Growth
Santa Maria FIR	H	.	.	.	.	.	.	3,941	4,110	4,301	4,499	4,704	4,934	33%
	B	3,057	3,188	3,304	3,484	3,479	3,696	3,884	4,009	4,137	4,280	4,422	4,573	24%
	L	.	.	.	.	.	.	3,828	3,913	3,997	4,096	4,192	4,305	16%
Serbia&Montenegro	H	.	.	.	.	.	.	1,927	2,072	2,188	2,303	2,416	2,537	39%
	B	.	.	920	1,748	1,783	1,819	1,904	2,009	2,084	2,166	2,248	2,332	28%
	L	.	.	.	.	.	.	1,881	1,949	2,003	2,066	2,128	2,192	20%
Slovakia	H	.	.	.	.	.	.	901	957	1,013	1,071	1,132	1,197	40%
	B	698	735	719	762	768	856	890	930	966	1,005	1,045	1,086	27%
	L	.	.	.	.	.	.	880	904	928	954	979	1,003	17%
Slovenia	H	.	.	.	.	.	.	411	436	459	482	504	528	45%
	B	253	268	316	342	331	365	407	427	442	458	474	490	34%
	L	.	.	.	.	.	.	403	419	430	442	454	465	27%
Spain	H	.	.	.	.	.	.	9,280	9,734	10,140	10,543	10,929	11,341	31%
	B	8,101	8,518	9,244	9,129	8,358	8,642	9,208	9,541	9,769	10,007	10,244	10,497	21%
	L	.	.	.	.	.	.	9,139	9,357	9,448	9,573	9,716	9,878	14%
Sweden	H	.	.	.	.	.	.	3,154	3,334	3,468	3,605	3,760	3,909	33%
	B	2,751	2,930	3,094	3,271	2,906	2,950	3,121	3,248	3,339	3,436	3,549	3,650	24%
	L	.	.	.	.	.	.	3,089	3,166	3,234	3,311	3,402	3,480	18%
Switzerland	H	.	.	.	.	.	.	1,455	1,520	1,580	1,637	1,694	1,755	25%
	B	1,323	1,368	1,452	1,472	1,396	1,409	1,442	1,487	1,521	1,559	1,597	1,636	16%
	L	.	.	.	.	.	.	1,429	1,455	1,473	1,498	1,524	1,551	10%
Turkey	H	.	.	.	.	.	.	9,507	10,287	11,086	11,906	12,777	13,751	54%
	B	6,121	6,629	7,168	7,629	8,086	8,923	9,398	10,004	10,574	11,243	11,923	12,669	42%
	L	.	.	.	.	.	.	9,290	9,738	10,179	10,711	11,246	11,823	32%
UK	H	.	.	.	.	.	.	9,953	10,299	10,630	10,968	11,306	11,668	23%
	B	10,047	10,426	10,896	11,044	9,914	9,480	9,867	10,090	10,291	10,526	10,756	10,988	16%
	L	.	.	.	.	.	.	9,781	9,892	10,016	10,180	10,339	10,509	11%
ESRA02	H	.	.	.	.	.	.	115,903	121,571	127,032	132,664	138,454	144,732	31%
	B	99,342	103,817	110,334	112,655	106,577	110,070	114,814	118,879	122,214	126,039	129,904	133,962	22%
	L	.	.	.	.	.	.	113,751	116,332	118,328	120,883	123,446	126,149	15%
CRCO88	H	.	.	.	.	.	.	70,861	73,897	76,710	79,602	82,547	85,740	28%
	B	63,415	66,609	70,785	71,532	66,323	66,977	70,305	72,553	74,151	75,986	77,815	79,720	19%
	L	.	.	.	.	.	.	69,764	71,292	72,088	73,181	74,257	75,402	13%
CRCO11	H	.	.	.	.	.	.	123,912	130,302	136,243	142,372	148,667	155,473	32%
	B	100,425	105,009	112,674	119,521	113,434	117,393	122,733	127,367	131,011	135,181	139,391	143,797	22%
	L	.	.	.	.	.	.	121,582	124,590	126,798	129,606	132,415	135,363	15%
PScheme	H	.	.	.	.	.	.	105,928	110,932	115,587	120,400	125,321	130,604	30%
	B	89,897	93,853	99,670	104,934	98,095	100,632	104,976	108,545	111,301	114,449	117,628	120,921	20%
	L	.	.	.	.	.	.	104,048	106,287	107,843	109,871	111,903	114,010	13%
Total	H	.	.	.	.	.	.	124,646	131,086	137,072	143,246	149,589	156,445	32%
	B	100,955	105,589	113,334	120,211	114,104	118,073	123,456	128,126	131,801	136,004	140,247	144,687	23%
	L	.	.	.	.	.	.	122,295	125,325	127,555	130,389	133,224	136,198	15%

(a) Totals in 2005-2006 do not include Armenia, Serbia-Montenegro, Poland and Lithuania for which data for these years are not available.

(b) Total in 2007 does not include Armenia, Poland and Lithuania for which data for this year are not available.

(c) Total in 2008 does not include Armenia for which data for this year are not available.

(d) Total from 2009 includes TSUs of all countries

(e) CRCO11 designates the sum over all the states participating in the Multilateral Route Charges System in 2011 of all TSUs either measured or forecasted for the corresponding year.

(f) PScheme stands for the sum over all the 29 states that are currently involved in the EU-wide performance target setting (27 EU member states plus Norway and Switzerland)

Figure 9: Annual growth in total service units per State and average annual growth (AAGR) between 2010 and 2016

Annual growth		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	AAGR 2016/ 2010
Albania	H	.	.	.	.	.	.	9.4%	9.9%	5.9%	5.8%	5.7%	5.8%	7.1%
	B	9.5%	0.6%	18.6%	3.8%	9.1%	13.9%	8.4%	8.5%	4.1%	4.4%	4.3%	4.3%	5.6%
	L	.	.	.	.	.	.	7.3%	7.2%	2.8%	3.2%	3.0%	3.0%	4.4%
Armenia	H	.	.	.	.	.	.	18.1%	9.1%	5.7%	5.5%	5.4%	5.6%	8.1%
	B	.	.	.	.	.	31.5%	15.6%	7.3%	4.0%	4.3%	4.4%	4.7%	6.6%
	L	.	.	.	.	.	.	13.1%	5.6%	2.7%	3.4%	3.6%	4.0%	5.3%
Austria	H	.	.	.	.	.	.	4.9%	6.4%	4.4%	4.2%	4.0%	4.0%	4.6%
	B	11.6%	4.8%	7.1%	2.3%	-5.5%	1.0%	3.5%	4.2%	2.5%	2.8%	2.7%	2.6%	3.0%
	L	.	.	.	.	.	.	2.1%	2.0%	1.4%	1.8%	1.8%	1.8%	1.8%
Belgium/Luxembourg	H	.	.	.	.	.	.	4.9%	4.9%	4.3%	4.1%	4.1%	4.1%	4.4%
	B	7.9%	7.9%	5.0%	1.7%	-6.4%	1.7%	4.0%	3.8%	2.9%	3.1%	3.0%	3.1%	3.3%
	L	.	.	.	.	.	.	3.2%	2.8%	2.1%	2.5%	2.4%	2.5%	2.6%
Bosnia-Herzegovina	H	.	.	.	.	.	.	14.0%	10.9%	7.1%	7.1%	6.9%	7.1%	8.8%
	B	.	16.3%	25.6%	9.1%	10.3%	10.1%	11.9%	8.5%	4.8%	5.0%	4.8%	4.7%	6.6%
	L	.	.	.	.	.	.	9.9%	6.0%	3.0%	3.3%	3.0%	2.9%	4.6%
Bulgaria	H	.	.	.	.	.	.	5.7%	6.3%	5.6%	5.2%	4.6%	4.7%	5.3%
	B	6.1%	1.2%	11.8%	7.5%	3.0%	2.3%	4.3%	4.4%	3.5%	3.8%	3.5%	3.5%	3.8%
	L	.	.	.	.	.	.	2.9%	2.5%	2.4%	2.8%	2.6%	2.6%	2.6%
Canary Islands	H	.	.	.	.	.	.	8.0%	5.0%	4.5%	4.5%	4.5%	4.6%	5.2%
	B	5.3%	2.5%	6.4%	1.3%	-12.9%	3.2%	6.7%	3.0%	2.4%	2.8%	2.7%	2.8%	3.4%
	L	.	.	.	.	.	.	5.5%	1.2%	1.2%	1.7%	1.6%	1.6%	2.1%
Croatia	H	.	.	.	.	.	.	10.6%	10.7%	5.7%	5.3%	5.0%	5.0%	7.0%
	B	16.0%	-3.5%	17.1%	5.6%	2.2%	11.8%	9.1%	8.4%	3.8%	3.9%	3.8%	3.7%	5.4%
	L	.	.	.	.	.	.	7.7%	6.2%	2.5%	2.9%	2.8%	2.8%	4.1%
Cyprus	H	.	.	.	.	.	.	1.4%	4.2%	6.0%	5.8%	5.5%	5.8%	4.8%
	B	1.4%	4.9%	11.4%	11.3%	-2.9%	6.2%	0.6%	3.2%	4.2%	4.4%	4.2%	4.5%	3.5%
	L	.	.	.	.	.	.	-0.2%	2.2%	3.3%	3.5%	3.4%	3.6%	2.6%
Czech Republic	H	.	.	.	.	.	.	7.0%	6.1%	4.6%	4.7%	4.6%	4.6%	5.2%
	B	7.1%	1.5%	2.3%	4.1%	0.2%	8.3%	5.8%	4.4%	2.9%	3.3%	3.2%	3.2%	3.8%
	L	.	.	.	.	.	.	4.6%	2.8%	1.9%	2.4%	2.3%	2.3%	2.7%
Denmark	H	.	.	.	.	.	.	6.0%	5.6%	3.1%	3.1%	3.2%	3.2%	4.0%
	B	0.4%	5.2%	6.1%	-0.4%	-7.8%	3.8%	5.0%	4.2%	1.9%	2.1%	2.2%	2.1%	2.9%
	L	.	.	.	.	.	.	4.0%	2.8%	1.2%	1.5%	1.6%	1.6%	2.1%
Estonia	H	.	.	.	.	.	.	8.0%	6.7%	5.7%	5.6%	5.4%	5.4%	6.1%
	B	3.9%	9.4%	13.8%	4.5%	-2.9%	1.5%	6.4%	4.9%	4.0%	4.2%	4.1%	4.0%	4.6%
	L	.	.	.	.	.	.	4.8%	3.2%	3.0%	3.4%	3.3%	3.2%	3.5%
FYROM	H	.	.	.	.	.	.	7.6%	3.9%	5.3%	5.0%	4.9%	4.9%	5.2%
	B	4.9%	10.2%	4.8%	0.2%	-1.0%	1.7%	6.6%	2.5%	3.5%	3.8%	3.7%	3.6%	3.9%
	L	.	.	.	.	.	.	5.7%	1.3%	2.7%	3.1%	3.0%	2.9%	3.1%
Finland	H	.	.	.	.	.	.	13.0%	5.1%	3.4%	3.6%	3.8%	3.8%	5.4%
	B	3.5%	1.4%	1.0%	6.1%	-8.1%	1.7%	11.7%	3.5%	2.0%	2.3%	2.4%	2.3%	4.0%
	L	.	.	.	.	.	.	10.3%	1.9%	1.1%	1.4%	1.5%	1.4%	2.9%
France	H	.	.	.	.	.	.	5.6%	3.6%	3.2%	3.1%	3.1%	3.3%	3.6%
	B	3.1%	3.0%	7.4%	0.2%	-7.0%	-0.9%	5.0%	2.7%	1.5%	1.9%	1.8%	1.8%	2.4%
	L	.	.	.	.	.	.	4.4%	1.9%	0.4%	0.8%	0.7%	0.6%	1.5%

EUROCONTROL Short- and Medium-Term Forecast
of Service Units: May 2011 Update

Annual growth		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	AAGR 2016/ 2010
Germany	H	.	.	.	.	.	.	5.2%	4.9%	4.6%	4.7%	4.7%	4.8%	4.8%
	B	7.7%	5.4%	6.0%	2.7%	-6.6%	3.2%	4.6%	4.2%	3.0%	3.3%	3.2%	3.2%	3.6%
	L	.	.	.	.	.	.	4.0%	3.5%	1.9%	2.2%	2.1%	2.0%	2.6%
Greece	H	.	.	.	.	.	.	2.3%	5.2%	5.0%	4.9%	4.6%	4.9%	4.5%
	B	3.1%	1.4%	7.9%	5.2%	-2.8%	7.6%	1.2%	4.2%	3.4%	3.7%	3.5%	3.6%	3.3%
	L	.	.	.	.	.	.	0.1%	3.3%	2.5%	2.9%	2.8%	2.9%	2.4%
Hungary	H	.	.	.	.	.	.	2.2%	6.1%	4.7%	4.5%	4.3%	4.3%	4.3%
	B	7.5%	3.0%	2.0%	-0.6%	-2.6%	2.6%	0.2%	2.6%	2.8%	3.0%	2.8%	2.9%	2.4%
	L	.	.	.	.	.	.	-1.7%	-0.8%	1.7%	2.1%	2.0%	2.0%	0.9%
Ireland	H	.	.	.	.	.	.	6.1%	3.9%	3.7%	4.0%	4.1%	4.4%	4.4%
	B	6.3%	19.9%	6.3%	0.0%	-6.9%	1.5%	5.1%	2.8%	2.1%	2.5%	2.5%	2.7%	2.9%
	L	.	.	.	.	.	.	4.0%	1.7%	1.3%	1.8%	1.8%	2.0%	2.1%
Italy	H	.	.	.	.	.	.	0.3%	3.1%	4.6%	4.8%	4.9%	5.1%	3.8%
	B	1.1%	2.8%	7.1%	0.5%	-6.0%	5.9%	-0.9%	1.1%	2.7%	3.2%	3.4%	3.4%	2.2%
	L	.	.	.	.	.	.	-2.0%	-0.8%	1.3%	1.9%	2.1%	2.2%	0.8%
Latvia	H	.	.	.	.	.	.	9.1%	6.3%	6.1%	5.9%	5.7%	5.5%	6.4%
	B	4.2%	11.0%	14.8%	4.7%	-9.1%	6.4%	8.2%	5.0%	4.3%	4.5%	4.3%	4.0%	5.0%
	L	.	.	.	.	.	.	7.3%	3.7%	3.5%	3.8%	3.5%	3.3%	4.2%
Lisbon FIR	H	.	.	.	.	.	.	7.9%	4.0%	3.0%	3.0%	2.6%	3.0%	3.9%
	B	2.0%	4.6%	4.6%	1.7%	-6.6%	4.9%	7.1%	3.0%	1.2%	1.1%	1.0%	1.5%	2.5%
	L	.	.	.	.	.	.	6.3%	2.1%	-0.4%	0.0%	0.1%	0.4%	1.4%
Lithuania	H	.	.	.	.	.	.	12.8%	8.5%	5.6%	5.5%	5.2%	5.0%	7.1%
	B	.	.	.	.	-11.0%	8.7%	10.5%	5.4%	3.9%	4.1%	3.9%	3.6%	5.2%
	L	.	.	.	.	.	.	8.2%	2.2%	2.8%	3.2%	3.0%	2.8%	3.7%
Malta	H	.	.	.	.	.	.	5.4%	5.6%	6.1%	6.2%	5.9%	6.4%	5.9%
	B	-0.9%	4.8%	15.5%	11.9%	-1.4%	17.0%	3.3%	2.3%	4.4%	4.6%	4.5%	5.0%	4.0%
	L	.	.	.	.	.	.	1.2%	-1.0%	3.1%	3.4%	3.4%	3.9%	2.3%
Moldova	H	.	.	.	.	.	.	10.7%	11.3%	6.4%	6.6%	6.5%	6.6%	8.0%
	B	22.7%	8.9%	32.6%	23.4%	20.4%	30.7%	8.5%	8.2%	5.0%	5.3%	5.1%	5.1%	6.2%
	L	.	.	.	.	.	.	6.3%	5.0%	4.1%	4.5%	4.3%	4.3%	4.7%
Netherlands	H	.	.	.	.	.	.	5.9%	4.5%	3.2%	3.3%	3.3%	3.3%	3.9%
	B	5.4%	5.4%	4.8%	-0.7%	-7.5%	2.1%	5.0%	3.2%	1.9%	2.3%	2.2%	2.3%	2.8%
	L	.	.	.	.	.	.	4.1%	1.9%	1.0%	1.5%	1.5%	1.6%	1.9%
Norway	H	.	.	.	.	.	.	8.7%	4.7%	2.9%	3.0%	2.9%	3.1%	4.2%
	B	5.7%	2.0%	5.8%	8.3%	-2.8%	5.9%	7.3%	2.8%	1.6%	1.8%	1.8%	1.9%	2.9%
	L	.	.	.	.	.	.	5.9%	0.9%	0.9%	1.2%	1.2%	1.4%	1.9%
Poland	H	.	.	.	.	.	.	9.6%	9.9%	4.9%	5.0%	4.8%	4.7%	6.5%
	B	.	.	.	.	-4.3%	7.1%	8.7%	8.3%	3.1%	3.5%	3.3%	3.2%	5.0%
	L	.	.	.	.	.	.	7.8%	6.8%	2.1%	2.6%	2.5%	2.4%	4.0%
Romania	H	.	.	.	.	.	.	2.6%	5.5%	7.3%	7.0%	6.6%	6.6%	5.9%
	B	9.3%	0.4%	-1.9%	0.1%	-3.3%	9.0%	1.5%	4.2%	5.3%	5.4%	5.2%	5.2%	4.5%
	L	.	.	.	.	.	.	0.5%	3.1%	4.2%	4.5%	4.4%	4.3%	3.5%
Santa Maria FIR	H	.	.	.	.	.	.	6.6%	4.3%	4.7%	4.6%	4.6%	4.9%	4.9%
	B	3.7%	4.3%	3.7%	5.4%	-0.1%	6.3%	5.1%	3.2%	3.2%	3.5%	3.3%	3.4%	3.6%
	L	.	.	.	.	.	.	3.6%	2.2%	2.2%	2.5%	2.3%	2.7%	2.6%
Serbia&Montenegro	H	.	.	.	.	.	.	5.9%	7.5%	5.6%	5.2%	4.9%	5.0%	5.7%
	B	.	.	.	90.0%	2.0%	2.0%	4.6%	5.5%	3.7%	4.0%	3.8%	3.7%	4.2%
	L	.	.	.	.	.	.	3.4%	3.6%	2.8%	3.2%	3.0%	3.0%	3.2%

EUROCONTROL Short- and Medium-Term Forecast
of Service Units: May 2011 Update

Annual growth		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	AAGR 2016/ 2010
Slovakia	H	.	.	.	.	.	.	5.3%	6.2%	5.8%	5.8%	5.7%	5.7%	5.8%
	B	9.8%	5.3%	-2.2%	6.1%	0.7%	11.5%	4.1%	4.4%	3.9%	4.1%	3.9%	3.9%	4.1%
	L	.	.	.	.	.	.	2.9%	2.7%	2.6%	2.8%	2.6%	2.5%	2.7%
Slovenia	H	.	.	.	.	.	.	12.4%	6.1%	5.4%	4.9%	4.6%	4.6%	6.3%
	B	17.7%	5.9%	17.7%	8.2%	-3.1%	10.3%	11.3%	5.0%	3.5%	3.6%	3.4%	3.4%	5.0%
	L	.	.	.	.	.	.	10.3%	4.0%	2.5%	2.9%	2.7%	2.6%	4.1%
Spain	H	.	.	.	.	.	.	7.4%	4.9%	4.2%	4.0%	3.7%	3.8%	4.6%
	B	7.7%	5.1%	8.5%	-1.3%	-8.4%	3.4%	6.5%	3.6%	2.4%	2.4%	2.4%	2.5%	3.3%
	L	.	.	.	.	.	.	5.7%	2.4%	1.0%	1.3%	1.5%	1.7%	2.3%
Sweden	H	.	.	.	.	.	.	6.9%	5.7%	4.0%	4.0%	4.3%	4.0%	4.8%
	B	2.9%	6.5%	5.6%	5.7%	-11.2%	1.5%	5.8%	4.1%	2.8%	2.9%	3.3%	2.9%	3.6%
	L	.	.	.	.	.	.	4.7%	2.5%	2.2%	2.4%	2.7%	2.3%	2.8%
Switzerland	H	.	.	.	.	.	.	3.3%	4.5%	3.9%	3.6%	3.5%	3.6%	3.7%
	B	5.2%	3.4%	6.1%	1.4%	-5.1%	0.9%	2.3%	3.1%	2.3%	2.5%	2.5%	2.4%	2.5%
	L	.	.	.	.	.	.	1.4%	1.8%	1.3%	1.7%	1.7%	1.8%	1.6%
Turkey	H	.	.	.	.	.	.	6.5%	8.2%	7.8%	7.4%	7.3%	7.6%	7.5%
	B	11.1%	8.3%	8.1%	6.4%	6.0%	10.4%	5.3%	6.5%	5.7%	6.3%	6.1%	6.3%	6.0%
	L	.	.	.	.	.	.	4.1%	4.8%	4.5%	5.2%	5.0%	5.1%	4.8%
UK	H	.	.	.	.	.	.	5.0%	3.5%	3.2%	3.2%	3.1%	3.2%	3.5%
	B	5.5%	3.8%	4.5%	1.4%	-10.2%	-4.4%	4.1%	2.3%	2.0%	2.3%	2.2%	2.2%	2.5%
	L	.	.	.	.	.	.	3.2%	1.1%	1.3%	1.6%	1.6%	1.6%	1.7%
ESRA02	H	.	.	.	.	.	.	5.3%	4.9%	4.5%	4.4%	4.4%	4.5%	4.7%
	B	5.6%	4.5%	6.3%	2.1%	-5.4%	3.3%	4.3%	3.5%	2.8%	3.1%	3.1%	3.1%	3.3%
	L	.	.	.	.	.	.	3.3%	2.3%	1.7%	2.2%	2.1%	2.2%	2.3%
CRCO88	H	.	.	.	.	.	.	5.8%	4.3%	3.8%	3.8%	3.7%	3.9%	4.2%
	B	5.6%	5.0%	6.3%	1.1%	-7.3%	1.0%	5.0%	3.2%	2.2%	2.5%	2.4%	2.4%	2.9%
	L	.	.	.	.	.	.	4.2%	2.2%	1.1%	1.5%	1.5%	1.5%	2.0%
CRCO11	H	.	.	.	.	.	.	5.6%	5.2%	4.6%	4.5%	4.4%	4.6%	4.8%
	B	5.9%	4.6%	6.4%	2.9%	-5.2%	3.5%	4.5%	3.8%	2.9%	3.2%	3.1%	3.2%	3.4%
	L	.	.	.	.	.	.	3.6%	2.5%	1.8%	2.2%	2.2%	2.2%	2.4%
PScheme	H	.	.	.	.	.	.	5.3%	4.7%	4.2%	4.2%	4.1%	4.2%	4.4%
	B	5.2%	4.4%	6.2%	1.7%	-6.5%	2.6%	4.3%	3.4%	2.5%	2.8%	2.8%	2.8%	3.1%
	L	.	.	.	.	.	.	3.4%	2.2%	1.5%	1.9%	1.8%	1.9%	2.1%
Total	H	.	.	.	.	.	.	5.6%	5.2%	4.6%	4.5%	4.4%	4.6%	4.8%
	B	5.9%	4.6%	6.5%	2.9%	-5.2%	3.5%	4.6%	3.8%	2.9%	3.2%	3.1%	3.2%	3.4%
	L	.	.	.	.	.	.	3.6%	2.5%	1.8%	2.2%	2.2%	2.2%	2.4%

(a) The 2007, 2008 and 2009 growth figures for CRCO11, PScheme and Total are adjusted to compensate for the increase in TSUs due to the introduction of new countries in the total (in 2007, introduction of Serbia and Montenegro with 920 thousand TSUs – in 2008, introduction of Poland and Lithuania with 3,614 thousand TSUs - in 2009, introduction of Armenia with 111 thousand TSUs)

(b) The 2008 growth figures for PScheme is adjusted for increase in TSUs due to Poland and Lithuania (3,614 thousand) newly included into the total.

© European Organisation for the Safety of Air Navigation (EUROCONTROL) 2011

This document is published by EUROCONTROL in the interests of exchange of information. It may be copied in whole or in part, providing that the copyright notice and disclaimer are included. The information contained in this document may not be modified without prior written permission from EUROCONTROL.

EUROCONTROL makes no warranty, either implied or express, for the information contained in this document, neither does it assume any legal liability or responsibility for the accuracy, completeness or usefulness of this information.

For further information please contact,

STATFOR, the EUROCONTROL Statistics and Forecast Service

statfor.info@eurocontrol.int

<http://www.eurocontrol.int/statfor>



STATFOR, the EUROCONTROL Statistics and Forecast Service is ISO 9001:2008 certified.