



Study on Current and Future Aircraft Noise Exposure at and around Community Airports

- Revision of baseline study -

In the final report of the “Study on Current and Future Aircraft Noise Exposure at and around Community Airports” (Anotec document PAN012-6-0, dated 10-11-2003), the evolution of the noise climate has been determined for all mayor EU airports and for various scenarios.

After delivery of this final report an error was detected in the database provided by Eurocontrol, from which the information on movements has been drawn for the study. The time used by Eurocontrol was UTC, rather than the expected Local Time. Due to this, an error occurs when assigning movements to the various time periods of interest for noise load calculations, such as used for Lden and Lnight. In general this resulted in an overestimation of the number of night flights and thus the corresponding noise levels.

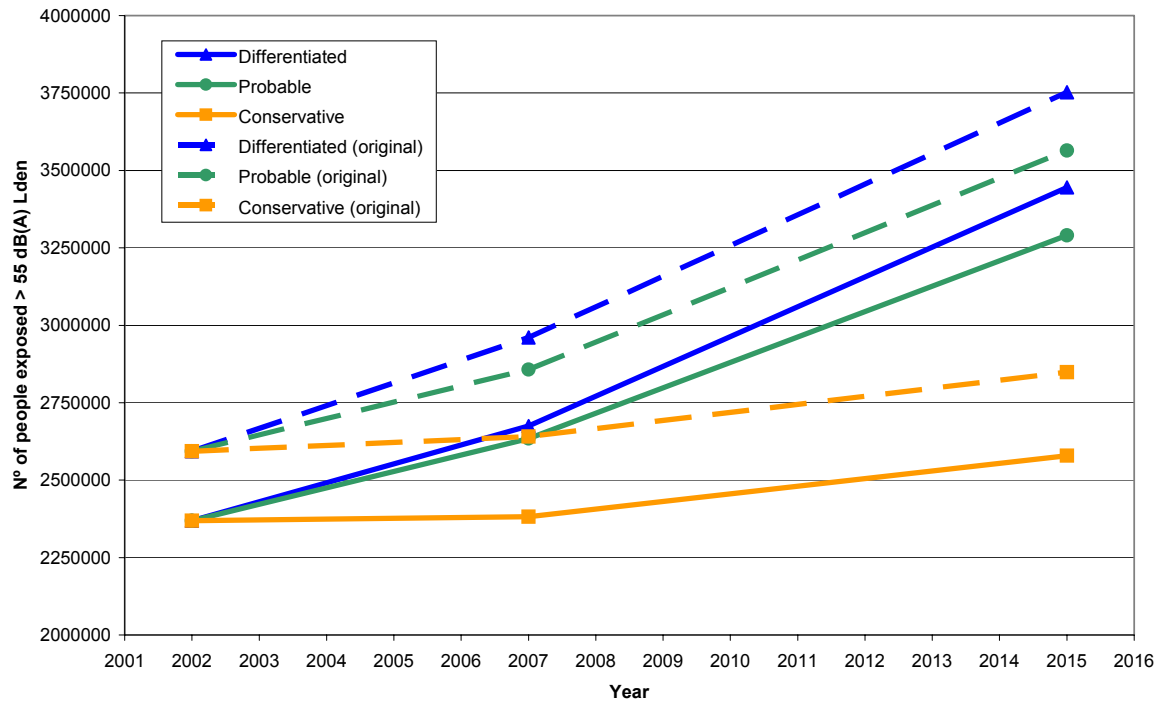
In order to assess the effect of this error on the results of the study, the Eurocontrol database was corrected and the baseline trend re-calculated. In the following the results of this revision are presented.

As can be concluded from the following table and figures, the error detected has only an influence on the absolute number of people affected by noise, not on the relative changes. **Thus, the trends and conclusions presented in the final report are remaining valid.**

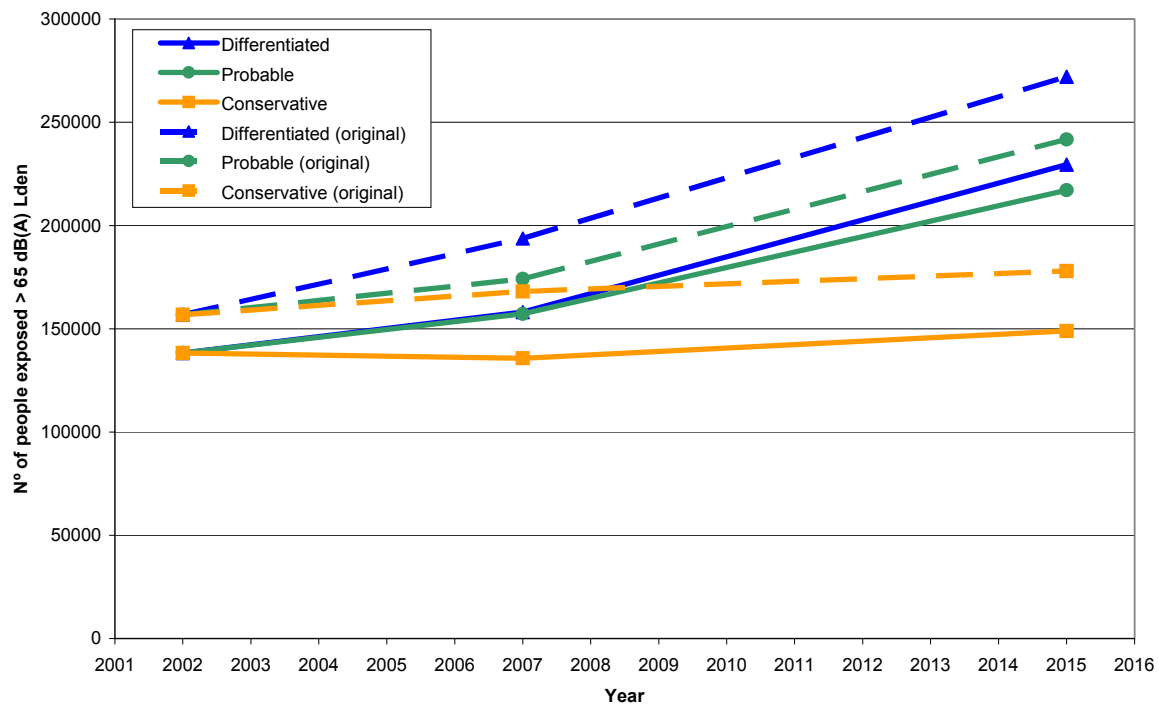
			Number of people exposed to aircraft noise				
	Scenario	Period	Lden>55 dB(A)	Lden>65 dB(A)	Highly Annoyed	Lnight>45 dB(A)	Lnight>55 dB(A)
Original	Probable	2002	2593166	156774	395069	4023430	345441
		2007	2856776	174202	438526	4311831	404350
		2015	3564677	241649	560092	5165375	547414
	Differentiated	2002	2593166	156774	395069	4023430	345441
		2007	2960523	193681	458696	4375573	414855
		2015	3752557	272070	597359	5385306	577053
	Conservative	2002	2593166	156774	395069	4023430	345441
		2007	2640580	168044	407032	3978831	352710
		2015	2848568	178019	440420	4210303	392236
Corrected	Probable	2002	2369106	138253	360812	2965774	190734
		2007	2634427	157206	403414	3233488	229264
		2015	3290576	217095	512730	3894868	333845
	Differentiated	2002	2369106	138253	360812	2965774	190734
		2007	2674805	158045	409743	3268979	233664
		2015	3445303	229502	540698	4087271	355668
	Conservative	2002	2369106	138253	360812	2965774	190734
		2007	2381627	135756	362199	2966347	201525
		2015	2578840	148988	393393	3153122	225104
%Change (Corr./Org.)	Probable	2002	-9%	-12%	-9%	-26%	-45%
		2007	-8%	-10%	-8%	-25%	-43%
		2015	-8%	-10%	-8%	-25%	-39%
	Differentiated	2002	-9%	-12%	-9%	-26%	-45%
		2007	-10%	-18%	-11%	-25%	-44%
		2015	-8%	-16%	-9%	-24%	-38%
	Conservative	2002	-9%	-12%	-9%	-26%	-45%
		2007	-10%	-19%	-11%	-25%	-43%
		2015	-9%	-16%	-11%	-25%	-43%
	Average		-9%	-14%	-9%	-25%	-43%



Baseline Trend - Lden >55 dB(A)

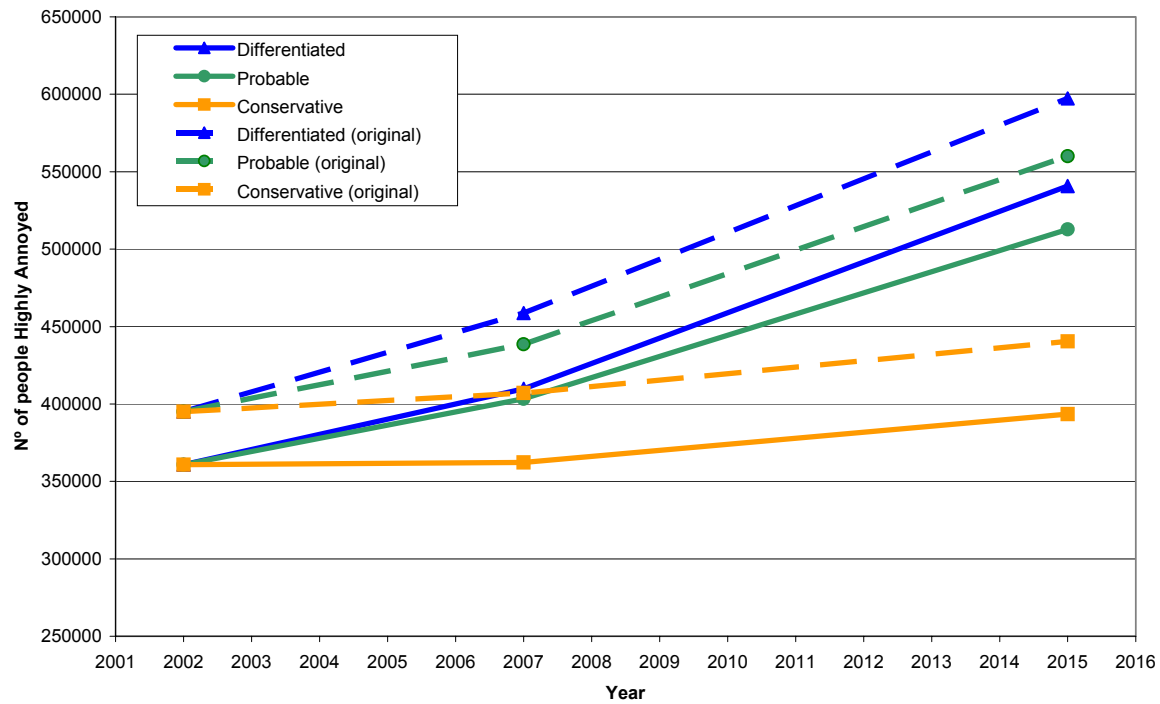


Baseline Trend - Lden >65 dB(A)

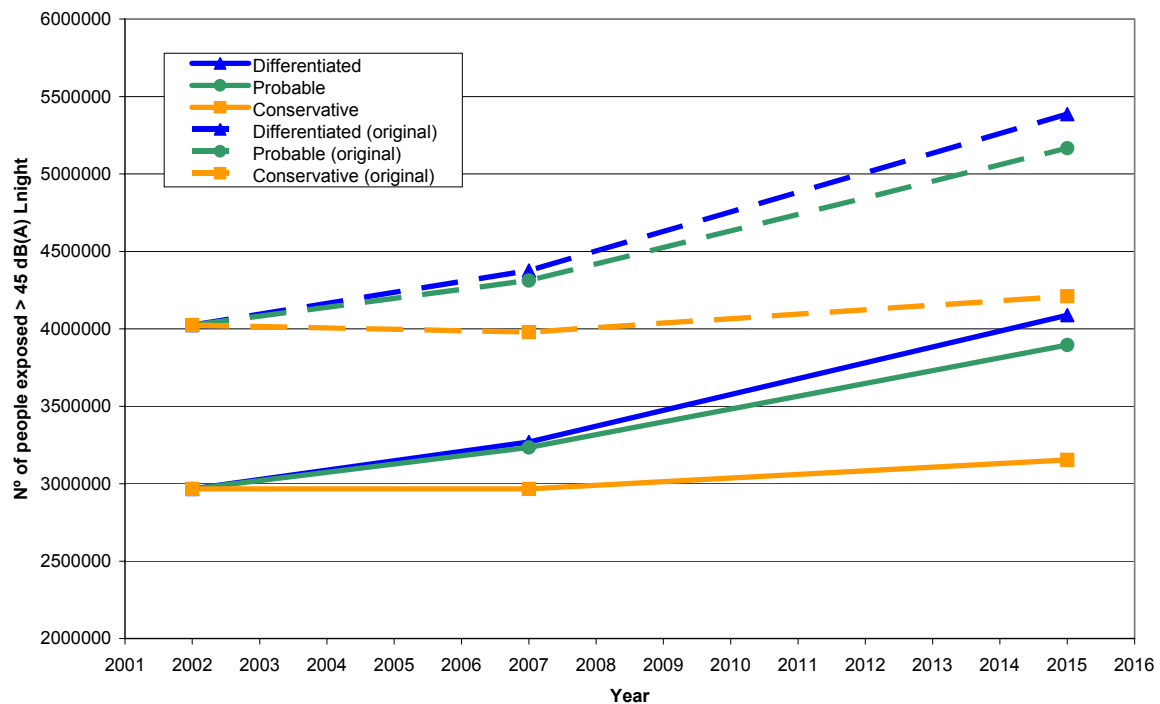




Baseline Trend - HA



Baseline Trend - Lnight >45 dB(A)





Baseline Trend - Lnight >55 dB(A)

