

# ICAO MID Region

## Global ATM Operational Concept Training Seminar

**Air Navigation Developments**

*Cairo, Egypt*  
*28 November to 1 December 2005*

# A380 Wake Turbulence Aspects

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**State letter dispatched 10 NOV 2005**

**Ad hoc group of experts under the  
auspices of:**

- United States FAA
- EUROCONTROL
- Joint Aviation Authorities (JAA)
- Airbus



# A380 Wake Turbulence Aspects

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- Concerns raised about horizontal and vertical wake turbulence spacing criteria
- Current data indicate A380 wake vortices will descend further and be significantly stronger at 300 m below the generation altitude than for other aircraft in the heavy wake turbulence category
- On rare occasions, A380 wake vortices may descend 600 m and may pose a passenger comfort issue, but not a hazard



# A380 Wake Turbulence Aspects

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## Interim guidance:

- Departure
  - One additional minute to be added to PANS-ATM 5.8 separations
- Horizontal spacing
  - When established on final, 10 NM between A380 and any other following aircraft
  - All other phases of flight, including enroute, 15 NM between A380 and any other acft operating directly behind and less than 1000 FT below



# A380 Wake Turbulence Aspects

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## Interim guidance (cont.)

- Vertical spacing
  - Offset tracks or additional vertical spacing is advised



# A380 Wake Turbulence Aspects

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- Manufacturer continues flight testing
- Ad hoc group continues its work
- Final guidance expected 2006



# Recent State letters

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## AN 12/17-05/93 7 October 2005

- Proposal for amendment of Annex 6, Parts I and III, Annex 11, and Annex 14, Volume I, to harmonize provisions regarding safety management
- Comments to reach Montreal by 31 December 2005
- Draft Safety Management Manual posted to the ICAO-NET at <http://www.icao.int/icaonet>



# Recent State letters

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## **AN 11/19.9-05/92 30 September 2005**

- Proposal for the amendment of the Procedures for Air Navigation Services – Aircraft Operations, Volume I – Flight Procedures (PANS-OPS, Doc 8168), relating to airborne collision avoidance system (ACAS) procedures
- Comments to reach Montreal by 13 January 2006





# Recent State letters

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## AN 11/41-05/87 12 August 2005

- Procedure for transparency and disclosure regarding significant compliance shortcomings with respect to safety-related SARPS
- States are requested to note the contents of this State letter



# Recent State letters

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## **E 3/5-05/85      12 August 2005**

- ICAO position on issues of critical concern to international civil aviation to be discussed at the International Telecommunications Union (ITU) World Radiocommunications Conference (2007) (WRC-07)
- States to consider the ICAO position when developing their positions for WRC-07 and to support the ICAO position during WRC-07



## Use of the public internet for aeronautical applications

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**Proposals for amendments to Annexes 3 and 15 will be developed for the purpose of allow certain operational, non-time critical uses of the Internet in the MET and AIS fields**



# Current Global Plan

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**Thank You!**

