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Aircraft Weather Observation Information.



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PRESENTATION SUMMARY

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01

ORIGIN OF THE
INFORMATION
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Chapter 3 Aircraft Meteorological Observation Information It has the following structure:

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Origin of Section 3.1:

Annex 3, Appendix 4, Sections 1, 2 and 4.2 are included in full, with the following changes:

- a) The first note, which was previously in Annex 3, is added to 5.6;

Note.— Icing, turbulence and, to a large extent, wind shear are elements which, for the time being, cannot be satisfactorily observed from the ground and for which in most cases aircraft observations represent the only available evidence.

b) 3.1.5.1, which was previously listed in Annex 3 as 5.9, is added;
and

3.1.5.1 Special aircraft observations of pre-eruption volcanic activity, a volcanic eruption or volcanic ash cloud shall be recorded on the special air-report of volcanic activity form. A copy of the form shall be included with the flight documentation provided to flights operating on routes which, in the opinion of the meteorological authority concerned, could be affected by volcanic ash clouds.

Note.— The detailed instructions for recording and reporting volcanic activity observations are given in the PANS-ATM (Doc 4444), Appendix I.

c) In the English version, the text of 3.1.4.6.2 (a) is harmonized with 3.1.4.6.2 (b) and (d).

3.1.4.6 Turbulence

The turbulence shall be reported in terms of the eddy dissipation rate (EDR).

Note.— The EDR is an aircraft-independent measure of turbulence. However, the relationship between the EDR value and the perception of turbulence is a function of aircraft type, and the mass, altitude, configuration and airspeed of the aircraft. The EDR values given below describe the severity levels for a medium-sized transport aircraft under typical en-route conditions (i.e. altitude, airspeed and weight).

3.1.4.6.2 Interpretation of the turbulence report

Turbulence shall be considered:

- a) severe when the peak value of EDR is equal to or above 0.45;
- b) moderate when the peak value of EDR is equal to or above 0.20 and below 0.45;
- c) light when the peak value of EDR is above 0.10 and below 0.20; and
- d) nil when the peak value of EDR is below or equal to 0.10.

Origin of Section 3.2:

Annex 3, Appendix 4, Section 4.1, is included in its entirety, without any change.

02

ORIGIN OF THE
INFORMATION
FROM ANNEX 3
TO APPENDIX 3
OF THE PANS
MET

Appendix 3 Technical specifications relating to air notifications (See Chapter 3 of the PANS MET)

Origin of Appendix 3:

Annex 3, Appendix 4, Tables A4-1, A4-2 and A4-3, and Appendix 6, Table A6-1B, including the editorial changes only indicated below.

Table A3-1. Template for the special air-report (downlink)

Key:	M	=	inclusion mandatory, part of every message;
	C	=	inclusion conditional; included whenever available.

Note.— *Message to be prompted by the pilot-in-command. Currently only the condition “SEV TURB” can be automated (see 3.1.4.6.3).*

Editorial Note.— The template to be included hereunder is identical to Annex 3, Appendix 4, Table A4-1, except for the insertion of “Annex 3,” before “Chapter”, and the addition of the Note 2 under the Table A3-2.

Notes.—

1. The time of occurrence to be reported in accordance with Table A3-3.
2. The turbulence to be reported in accordance with 3.1.4.6.3.
3. Obscured, embedded or widespread thunderstorms or thunderstorms in squall lines.
4. Duststorm or sandstorm.
5. Pre-eruption volcanic activity or a volcanic eruption.

Table A3-2. Template for special air-reports (uplink)

Key:	M	=	inclusion mandatory, part of every message;
	C	=	inclusion conditional, included whenever applicable;
	= =	=	a double line indicates that the text following it should be placed on the subsequent line.

Note 1.— The ranges and resolutions for the numerical elements included in special air-reports are shown in Table A7-7 of Appendix 7.

Note 2.— Criteria for meteorological phenomena included in special air-reports are listed in Appendix 8.

Editorial Note.— The template to be included hereunder is identical to Annex 3, Appendix 6, Table A6-1B.

Notes.—

1. No wind and temperature to be uplinked to other aircraft in flight in accordance with Annex 3, 5.8.2 b).
2. See Annex 3, 5.8.2 a).
3. Fictitious call sign.
4. In the case of special air-report for volcanic ash cloud, the vertical extent (if observed) and name of the volcano (if known) can be used.
5. Fictitious location.

Table A3-3. Time of occurrence of the peak value to be reported

Editorial Note.— The table to be included hereunder is identical to Annex 3, Appendix 4, Table A4-2.

**Table A3-4. Ranges and resolutions for the meteorological elements
included in air-reports**

Editorial Note.— The Table to be included hereunder is identical to Annex 3, Appendix 4, Table A4-3, except for the insertion of “Annex 3,” before “Chapter”.

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IMPACT OF THE
INITIAL
PROPOSALS ON
CHAPTER 10 OF
THE PANS MET

INITIAL PROPOSAL 6

ENHANCED DEFINITION OF METEOROLOGICAL AUTHORITY

The proposed amendments include a clearer definition of the term "meteorological authority" and, accordingly, a new definition of the term "meteorological service provider" to better clarify the roles and responsibilities of both entities, reflecting the arrangements that are being implemented by more and more States.

The term "meteorological authority", used so far in Annex 3, has been replaced by the term "meteorological service provider" in these NAPs, since all procedures in this document are addressed to the service provider.

In addition, the term "competent ATS authority", as defined in Annex 11, is used throughout the document.

The term "meteorological authority" has been replaced by the term "meteorological service provider" in 3.1.5.1 and h); 3.1.5.2.

CHAPTER 3. AIRCRAFT METEOROLOGICAL OBSERVATIONAL INFORMATION

Editorial Note.— The term “meteorological authority” has been replaced by the term “meteorological service provider” in 3.1.5.1 and h); 3.1.5.2.

3.1. REPORTING OF AIRCRAFT OBSERVATIONS

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3.1.5 Specific procedures for post-flight reporting of volcanic activity

3.1.5.1 Special aircraft observations of pre-eruption volcanic activity, a volcanic eruption or volcanic ash cloud shall be recorded on the special air-report of volcanic activity form. A copy of the form shall be included with the flight documentation provided to flights operating on routes which, in the opinion of the ~~meteorological authority~~ meteorological service provider concerned, could be affected by volcanic ash clouds.

Note.— The detailed instructions for recording and reporting volcanic activity observations are given in the PANS-ATM (Doc 4444), Appendix 1.

3.1.5.2 On arrival of a flight at an aerodrome, the completed report of volcanic activity shall be delivered by the operator or a flight crew member, without delay, to the aerodrome meteorological office, or if such office is not easily accessible to arriving flight crew members, the completed form shall be dealt with in accordance with local arrangements made by the ~~meteorological authority~~ meteorological service provider and the operator.



Gracias!