

**FOLLOW-UP OF WAFSOPSG/1
CONCLUSIONS (C)**

Status on 29 March 2005

M = noted by the Air Navigation Commission

U = action completed

Note.— No follow-up will be undertaken on the WAFSOPSG decisions.

No.	Title/Action	Follow-up action (target/completion date in brackets)
C1/1 M U	<p>Revision of Chapter 9 and Appendix 8 of Annex 3</p> <p>That, in order to improve the clarity of Annex 3 provisions and foster the use of WAFS products, the Secretary, in close coordination with the WMO Member of the WAFSOPSG, prepare a draft amendment to Chapter 9 and Appendix 8 of Annex 3 for review by the WAFSOPSG/2 Meeting</p>	<p style="text-align: center;">ICAO. Included in WP/3 for the WAFSOPSG/2. (December 2004)</p>
C1/2 U	<p>Amendment to WAFS-related regional procedures in the ANP/FASID</p> <p>That, the WAFS-related regional procedures in all ANP/FASID as shown in Appendix B to this report be referred to the ICAO Regional Offices concerned for processing and onward transmission to States for comments, as necessary.</p>	<p style="text-align: center;">ICAO. Memo to the ICAO Regional Offices. (20 January 2004)</p>
C1/3 U	<p>Preparation of WAFS management report</p> <p>That, WAFC Provider States be invited to provide a concise joint WAFS management report, in the order of 5 pages, to be presented at every WAFSOPSG Meeting, covering the period elapsed since the previous meeting and addressing the main features of the WAFS operations, including ISCS and SADIS satellite broadcasts, highlighting any recent developments or difficulties and future plans for operational updates.</p> <p style="text-align: center;"><i>Note.— In the case of SADIS, all the details can be omitted by making reference to the latest SADIS management report.</i></p>	<p style="text-align: center;">WAFC Provider States</p> <p style="text-align: center;">First report in WP/9 for the WAFSOPSG/2 (January 2005)</p>
C1/4 U	<p>Development of WAFS output performance indicators</p> <p>That, the IATA Member of the WAFSOPSG, in close coordination with the IFALPA Member of the WAFSOPSG and WAFC Provider States, be tasked to develop proposals for WAFS output performance indicators, for consideration by the WAFSOPSG.</p> <p style="text-align: center;"><i>Note.— It was expected that WAFS output performance indicators would be subsequently included in the WAFS management reports.</i></p>	<p style="text-align: center;">IATA Included in WP/8 for the WAFSOPSG/2 (January 2005)</p>

No.	Title/Action	Follow-up action (target/completion date in brackets)
C1/6 U	<p>Notification for significant changes in the WAFS operation</p> <p>That, WAFS Provider States be invited to develop adequate notification procedures for significant changes to the WAFS operation.</p> <p><i>Note.— It was expected that WAFSOPSG would be informed about the notification procedures in the first WAFSOPSG management report to be presented at the WAFSOPSG/2 Meeting</i></p>	<p>WAFS Provider States</p> <p>Part of the first management report (Section 5.4 refers) (January 2005)</p>
C1/7 U	<p>Draft amendment to Attachment E to Annex 3 concerning route and area forecasts</p> <p>That, the proposal as shown at Appendix C to this report be used by the Secretariat as the basis for preparing a draft proposal for inclusion in Amendment 74 to Annex 3.</p> <p><i>Note.— The proposal will be consolidated subsequently with the draft amendment progressed by the Secretariat with the assistance of the AMOSSG</i></p>	<p>ICAO.</p> <p>Forwarded to the Secretary of the AMOSSG. (20 January 2004)</p>
C1/9 U	<p>Back-up procedures at the WAFCs</p> <p>That, the Secretariat place the updated WAFS back-up procedures as shown at Appendix D to this report on the WAFSOPSG Web site.</p> <p><i>Note.— The back-up procedures will be reviewed at the WAFSOPSG/2 Meeting and the updated version will be included in draft Amendment 74 to Annex 3.</i></p>	<p>ICAO.</p> <p>Placed on the WAFSOPSG website. (7 January 2004)</p> <p>Need to update addressed in WP/10. (January 2005)</p>
C1/10 U	<p>SWM BUFR coding conventions</p> <p>That, the WAFS Provider States, following further discussions, be invited to use the BUFR coding convention.</p>	<p>WAFS Provider States.</p> <p>Both WAFS use of the SWM BUFR coding convention. (August 2004)</p> <p><i>(Note. — Relevant software under development; the SWM in the BUFR code to become operational in early 2005).</i></p>

No.	Title/Action	Follow-up action (target/completion date in brackets)
<p>C1/11</p> <p>U</p>	<p>Depiction of the boundaries of the WAFS medium-level BUFR-coded SIGWX forecasts by the visualization software</p> <p>That,</p> <p>a) the WAFS Provider States be invited to encourage software vendors to include in their visualization software a feature which will depict the boundaries of the WAFS medium-level BUFR-coded SIGWX forecasts when reproduced in the chart form; and</p> <p>b) ICAO draw the attention of States to the importance of depicting the boundaries of the WAFS medium-level BUFR-coded SIGWX forecasts by the visualization software.</p>	<p>WAFS Provider States</p> <p>The feature included in a note following Section 1.3.6 of the Guidelines for <i>Representing WAFS SIGWX data in BUFR</i> (available on the WAFSOPSG website).</p> <p>(August 2004)</p> <p><i>(Note. — The functionality not tested on workstation software; applicable to SWM only, which is not yet available.)</i></p> <p>ICAO State letter. (April 2004)</p>
<p>C1/12</p> <p>U</p>	<p>Harmonization of the depiction of SIGWX phenomena</p> <p>That, the WAFS Provider States be invited to make every effort to harmonize the depiction of SIGWX in the WAFS forecasts in order to minimise the differences between the products issued by the two WAFCs as far as the jet streams, turbulence, tropical cyclones and volcanic ash are concerned.</p>	<p>WAFS Provider States</p> <p>Being progressed; specific issues addressed in WP/11, WP/12 and WP/13.</p> <p>(January 2005)</p>
<p>C1/13</p> <p>O</p>	<p>Requirements for additional wind levels</p> <p>That, the WAFSOPSG Member from IATA be tasked to assess user requirements for additional wind levels and report the results back to the WAFSOPSG/2 Meeting.</p>	<p>IATA</p> <p>WP for the WAFSOPSG/2 expected (January 2005)</p>
<p>C1/15</p> <p>O</p>	<p>Development of an objective icing index</p> <p>That, the WAFS Provider States be invited to present a progress report on the development of an objective icing index to be used in WAFS SIGWX forecast, for consideration by the WAFSOPSG/2 Meeting</p>	<p>WAFS Provider States</p> <p>WP/IP for the WAFSOPSG/2 expected (January 2005)</p>

No.	Title/Action	Follow-up action (target/completion date in brackets)
C1/16 U	<p>Development of new WAFS output products for turbulence and icing in grid point format</p> <p>That, in view of developing new WAFS output products for turbulence and icing in grid point format, the WAFC Provider State</p> <ul style="list-style-type: none"> a) continue to improve the forecast algorithms used for turbulence and icing; and b) report back to the WAFSOPSG/2 Meeting on the progress made. <p><i>Note.— WAFCs are expected to take maximum advantage of global eddy dissipation rate (EDR) data to improve the forecast algorithm for turbulence.</i></p>	<p>WAFC Provider States</p> <p>Included in WP/14 for the WAFSOPSG/2</p> <p>(January 2005)</p>
C1/17 M U	<p>Workshop on turbulence and icing</p> <p>That, the WAFC London Provider State, in coordination with ICAO and WMO, be invited to convene a workshop on turbulence and icing, with the provisional agenda as indicated in 6.2.5.2 above</p>	<p>ICAO</p> <p>Letters to UK & WMO (April 2004; July 2004)</p> <p>WAFC London Provider State:</p> <p>Workshop organized (February 2005)</p>
C1/18 U	<p>Study on feasibility and advisability of extending the lead time for the issuance of SIGWX forecasts</p> <p>That, the WAFC Provider States be invited to</p> <ul style="list-style-type: none"> a) develop verification methodology for elements included in SIGWX forecasts, with verification of 24-, 30- and 36-hour forecasts to be made against model analysis; b) consider the possibility of issuing two parallel SIGWX forecasts, including the associated costs; and c) present results obtained under a) and b) for consideration by the WAFSOPSG/2 Meeting. 	<p>WAFC Provider States</p> <p>Included in WP/15 for the WAFSOPSG/2</p> <p>(January 2005)</p>
C1/19 U	<p>Elimination of clouds other than CB and TCU from the medium-level SIGWX forecasts</p> <p>That,</p> <ul style="list-style-type: none"> a) the requirement to indicate clouds (types and coverage) other than CB and TCU be suppressed from the medium-level SIGWX forecasts; and b) the Secretary develop the corresponding proposal to be included in draft Amendment 74 to Annex 3 for consideration by the WAFSOPSG/2 Meeting. 	<p>ICAO</p> <p>Included in WP/3 for the WAFSOPSG/2.</p> <p>(December 2004)</p>

No.	Title/Action	Follow-up action (target/completion date in brackets)
C1/20 U	<p>Procedures for the quality control of MET information included in the ADS messages</p> <p>That, the WAFC Provider States having implemented procedures for the quality control of MET information included in the ADS messages, assess, in coordination with the WAFSOPSG Member from WMO, the feasibility and desirability of providing feed-back to the operators concerned, taking into account the costs involved, in time for consideration by the WAFSOPSG/2 Meeting.</p> <p><i>Note.— If feasible, appropriate procedures would be developed for inclusion in Annex 3 and the Manual of Aeronautical Meteorological Practice (Doc 8896) by the WAFSOPSG/2 Meeting.</i></p>	<p>WAFC Provider States included in WP/18 for the WAFSOPSG/2 (February 2005)</p>
C1/21 U	<p>WAFS charts for standard ICAO areas of coverage</p> <p>That,</p> <p>a) the requirement for States to make available WAFS forecasts in the chart form for the fixed areas of coverage as specified in ICAO provisions be continued; and</p> <p>b) the Secretary develop the corresponding proposal for inclusion in draft Amendment 74 to Annex 3 for consideration by the WAFSOPSG/2 Meeting.</p>	<p>ICAO</p> <p>Included in WP/3 for the WAFSOPSG/2 (December 2004)</p>
C1/22 U	<p>Depiction of meteorological and other features on WAFS forecast charts</p> <p>That,</p> <p>a) the WAFC Provider States complete, as a matter of urgency, the development of guidelines, in coordination with the WAFSOPSG Member from WMO, related to the depiction of meteorological and other features on WAFS forecast charts derived from the BUFR and GRIB data, making sure that no modifications be allowed to the <i>meteorological</i> content of forecasts labelled as WAFS products;</p> <p>b) the Secretary</p> <ol style="list-style-type: none"> 1) circulate the guidelines for information and comment to the WAFSOPSG Members; and 2) develop the proposal stating that no modifications be allowed to the <i>meteorological</i> content of forecasts labelled as WAFS products, for inclusion in draft Amendment 74 to Annex 3, for consideration by the WAFSOPSG/2 Meeting. 	<p>WAFC Provider States (March 2004)</p> <p>ICAO</p> <p>1) circulation by WAFS-OPSG-Memo/05 (June 2004)</p> <p>2) included in WP/3 for the WAFSOPSG/2. (December 2004)</p>

No.	Title/Action	Follow-up action (target/completion date in brackets)
C1/24 U	<p>Guidance on software vendors</p> <p>That,</p> <p>a) the WAFC Provider States be invited to develop, as a matter of urgency, a list of software vendors who meet the high-level criteria concerning the depiction of meteorological and other features on WAFS forecast charts, as developed by the SADISOPSG/8 Meeting; and</p> <p>b) on the completion of the list, ICAO inform the Contracting States accordingly and place the list on the open WAFSOPSG Web site.</p>	<p>WAFC Provider States</p> <p>List received (July 2004)</p> <p>ICAO</p> <p>Link included in the WAFSOPSG website; (August 2004)</p> <p>State letter (24 September 2004)</p>
C1/25 U	<p>Amendments to SIGWX forecasts</p> <p>That,</p> <p>a) as of Amendment 74, the issuance of amendments to SIGWX forecasts no longer be required; and</p> <p>b) the Secretary develop the corresponding proposal for inclusion in draft Amendment 74 to Annex 3 for consideration by the WAFSOPSG/2 Meeting.</p>	<p>ICAO</p> <p>Included in WP/3 for the WAFSOPSG/2 (December 2004)</p>
C1/26 U	<p>Future of the SWM forecasts</p> <p>That,</p> <p>a) the WAFC Provider States be invited to study the feasibility of replacing WAFS SWM forecasts by new global WAFS output products for turbulence, icing, and CB and TCU clouds in grid point format; and</p> <p>b) if feasible, the Secretary develop the corresponding proposal for inclusion in draft Amendment 74 to Annex 3 for consideration by the WAFSOPSG/2 Meeting.</p>	<p>WAFC Provider States</p> <p>Development of gridded forecasts of icing, turb. and CB/TCU being progressed by WAFC London (WP/14 refers); trial products expected in 2005. If their verification is satisfactory, the operational product will be developed. These products will use the GRIB2 code form.</p> <p>(January 2005)</p> <p>ICAO. Amendment 74 premature given that no agreement to use the GRIB2 code form exists.</p> <p>(January 2005)</p>

No.	Title/Action	Follow-up action (target/completion date in brackets)
C1/27 O	<p>Migration to the GRIB2 code form</p> <p>That, the WAFC Provider States be invited to</p> <p>a) study the impact of migration to the GRIB2 code form within the WAFS, addressing in particular the costs and benefits for WAFCs and WAFS users; and</p> <p>b) report the results thereof to the WAFSOPSG/2 Meeting.</p>	<p>WAFC Provider States</p> <p>WP/IP expected for the WAFSOPSG/2</p> <p>(December 2004)</p>
C1/28 U	<p>Introduction of forecasts of height above ground level of the standard WAFS flight levels</p> <p>That,</p> <p>a) forecasts of height above ground level of the standard WAFS flight levels be included in the list of WAFS forecasts to be provided by the WAFCs in the GRIB code form; and</p> <p>b) the Secretary develop the corresponding proposal for inclusion in draft Amendment 74 to Annex 3 for consideration by the WAFSOPSG/2 Meeting.</p>	<p>ICAO</p> <p>Included in WP/3 for the WAFSOPSG/2.</p> <p>(December 2004)</p>
C1/30 M U	<p>Update of the work programme of the WAFSOPSG</p> <p>That, the work programme of the WAFSOPSG be replaced with that shown in Appendix F to this report.</p>	<p>ICAO</p> <p>(November 2003)</p>
