

WMO OMM

WEATHER CLIMATE WATER
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World Meteorological Organization
Organisation météorologique mondiale
Organización Meteorológica Mundial
Всемирная метеорологическая организация
المنظمة العالمية للأرصاد الجوية
世界气象组织

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GENÈVE, le 29 avril 2016

Annexe: 1 (disponible en anglais seulement)

Objet: Révision de *l'Atlas international des nuages – Manuel de l'observation des nuages et des autres météores* (OMM-N° 407, Volumes I et II)

- Suite à donner:
1. Communiquer au Secrétariat de l'OMM **avant le 29 juillet 2016** vos observations concernant le projet de texte proposé pour la nouvelle édition du Volume 1 de la publication citée en objet
 2. Continuer à faire connaître l'opportunité de soumettre des images susceptibles de figurer dans la nouvelle édition de l'Atlas via le site Web consacré à cet effet (<http://wmoica.org/index.php/en/>)

Madame, Monsieur,

Vous vous souvenez sans doute que le Conseil exécutif de l'OMM, à sa soixante-sixième session, a soutenu sans réserve la proposition de la Commission des instruments et des méthodes d'observation (CIMO) de procéder à une révision complète et à une mise à jour de *l'Atlas international des nuages – Manuel de l'observation des nuages et des autres météores* (OMM-N° 407, Volumes I et II) pour faire de celui-ci la norme de référence mondiale en ligne pour la classification et les observations de nuages et d'autres météores et la transmission des observations correspondantes. Il a demandé à la CIMO de procéder à cette mise à jour dès que possible.

Le Dix-septième Congrès météorologique mondial a remercié la CIMO d'avoir entamé la mise au point de la nouvelle édition en ligne de l'Atlas en tant que document relatif au Système mondial intégré des systèmes d'observation de l'OMM (WIGOS) nécessaire au fonctionnement des Services météorologiques et hydrologiques nationaux (SMHN), en particulier dans les pays en développement. Il a confié au Conseil exécutif le soin de demander à ses Membres d'avaliser par correspondance l'Atlas de façon à accélérer sa publication.

Aux: Représentants permanents (ou directeurs des Services météorologiques ou hydrométéorologiques) des Membres de l'OMM (PR-6898)

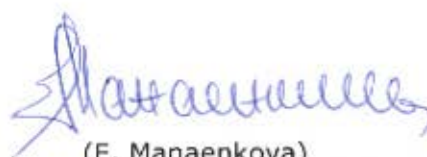
cc: Conseillers en hydrologie auprès des représentants permanents)
Présidents et vice-présidents des commissions techniques)
Présidents des conseils régionaux) (pour information)
Membres de la CIMO)
Directeur général de l'ASECNA)
Secrétaire de la HMEI)

J'ai le plaisir de vous informer que le Groupe de gestion de la CIMO a approuvé le projet de texte mis à jour de la nouvelle édition de l'Atlas. Compte tenu du caractère réglementaire de certaines parties de ce texte, notamment l'annexe I au Règlement technique de l'OMM, le Conseil exécutif, lors de sa soixante-huitième session, sera prié d'approuver le projet de texte proposé par le Président de l'OMM, à condition que les Membres n'aient formulé aucune objection à son égard d'ici à la fin de la période d'examen obligatoire, d'une durée de trois mois (règle 77).

Par conséquent, vous voudrez bien:

1. Examiner le projet de texte et communiquer vos observations à M. W. Zhang, Directeur du Département des systèmes d'observation et d'information (wzhang@wmo.int), avec copie à M. R. Atkinson (ratkinson@wmo.int) **le plus rapidement possible et au plus tard le 29 juillet 2016**. Le projet de texte est disponible en anglais seulement sur le site Web de l'OMM à l'adresse <https://www.wmo.int/pages/prog/www/IMOP/IMOP-home.html>. Compte tenu de sa taille et sa nature technique, vous serez probablement amené(e) à solliciter l'aide de spécialistes du domaine concerné dans votre pays pour procéder à cet examen. Au préalable, je vous recommande de prendre connaissance du document d'orientation qui figure en annexe de la présente (qui est également disponible sur le site Web susmentionné).
2. Continuer à faire largement connaître, dans votre service et d'autres organismes et sociétés météorologiques de votre pays, l'opportunité qui s'offre aux professionnels de la météorologie, de l'observation météorologique et de la photographie de nuages de proposer des images susceptibles de figurer dans le nouvel Atlas, comme cela vous avait été demandé dans la lettre circulaire PR-6861 (réf.: OBS-OSD-IMO-CIMO-ICA) du 31 juillet 2015. Le site Web spécialement conçu à cet effet restera accessible à l'adresse <http://wmoica.org/index.php/en/> tant que toutes les images requises n'auront pas été rassemblées.

En vous remerciant du soutien que vous apportez à l'OMM et à ses activités, je vous prie d'agréer, Madame, Monsieur, l'expression de ma considération distinguée.



(E. Manaenkova)
pour les Secrétaire général

**GUIDELINES FOR TEXT REVIEWERS OF THE 2016
DRAFT INTERNATIONAL CLOUD ATLAS**

The current edition of the *International Cloud Atlas (ICA) - Manual on the Observation of Clouds and Other Meteors* (WMO-No. 407) comprises two volumes. The first volume contains text and diagrams only, of which parts comprise Annex I to the WMO Technical Regulations. Volume II contains photographic images and captions only, to illustrate the many cloud types defined and described in Volume I. Volume II and its contents do not comprise WMO regulatory material, so are not subject to this review.

The new edition of the ICA is to be web-based, so Volumes I and II will be integrated into one.

The proposed draft text of the 2016 edition of the International Cloud Atlas is now ready for review by WMO Members. It can be downloaded from the WMO website at:

<https://www.wmo.int/pages/prog/www/IMOP/IMOP-home.html>

The draft text is contained in three separate files:

- The first file includes all text from the Preface to the 1939 edition up to and including Chapter II.3;
- The second file includes Chapters II.4 up to and including II.8;
- The third and final file includes Chapter III plus the Appendices and proposed Glossary.

A description is provided below of the main differences between the old edition of the text and the draft new edition.

On completion of your review, please e-mail your feedback on the new version to Dr W. Zhang (wzhang@wmo.int), Director of the WMO Observations and Information Systems Department, with a copy to Dr R. Atkinson (ratkinson@wmo.int) under the title "Review of the 2016 Draft International Cloud Atlas". Should you wish to include comments or suggestions on the draft text, you are requested to cut the relevant part of the text from the draft material, paste it into a new Word file, add your comments or suggestions to that and attach it to your e-mail.

Thank you for reviewing the draft text of the new edition of the ICA.

Summary of Changes from the 1975 Edition of Volume I to the Current Draft Edition

General

The language used in the new draft has been modernized throughout: the use of obsolete or archaic words has been eliminated, with modern equivalents substituted, and the general style has been modernized. The order of sentences in the text has in some cases been changed to enhance logical flow. Because the new edition is to be primarily web-based, the text format has in many places been converted from simple text to tabular format. While changes to content are generally small, the appearance (layout and/or format) of existing tables has been modernized in many cases.

Part I

Apart from those general changes noted above, very few changes of substance have been proposed for Part I.

Part II

Chapter II.1.3.5 includes a description of the Special Clouds, each of which is now proposed for formal recognition in the classification scheme.

The table of Chapter II.1.4 includes a number of new, formal classifications (1 new species, several new supplementary features and special clouds). These are described in more detail under Definitions of Clouds.

In Chapter II.2.1.2, it has been proposed that, for the English version of the ICA, the use of the French term "étage" be discontinued and the English equivalent "level" be used, since in all other languages the same practice is followed.

Chapter II.2.2 "Observational conditions to which definitions of clouds apply" has been moved to II.7.1, where it more appropriately belongs.

Chapter II.2.3, Definitions of Clouds, becomes II.2.2. Much of the contents have been tabulated and there is more use of dot points, but apart from the inclusion of the new classifications (highlighted in yellow), little change has been made.

Chapter II.3, Descriptions of Clouds, has many changes from the 1975 edition, but very few of substance. The first four subsections of each section contain regulatory text. Where small changes have been made to this regulatory text (modernization) all have been checked to ensure that interpretation will not change (to maintain traceability with time).

Chapter II.4, Orographic Influences: The chapter contains no regulatory text. It has been extensively rewritten and the perspective has been changed. It now considers influences on the windward and leeward sides of orographic features, sequentially.

Chapter II.5, Observations from Aircraft: This chapter contains no regulatory text. It has been rewritten to enhance clarity, but no significant changes have been made.

Chapter II.6, Special Clouds: This chapter contains no regulatory text. It has been extensively rewritten and the title changed to 'Upper Atmospheric Clouds'. Previously this chapter included all the special clouds, but now most have been formally classified and all that remains in this

category are the noctilucent and nacreous clouds. It has been rewritten to reflect the significant increases in knowledge that have occurred in this area since the 1975 edition.

Chapter II.7, Observation of Clouds from the Earth's Surface. This chapter contains no regulatory text. The introduction has been rearranged, uses dot points, and includes the material relocated from the previous Chapter II.2.2. A completely new feature of the new edition is the simple pictorial identification aid for the 10 Genera, which has been added in II.7.2.

Chapter II.8, Coding of Clouds in the CL, CM and CH and Corresponding Symbols. II.8.2 and II.8.4 currently contain regulatory material. The technical and non-technical specifications for each cloud type in II.8.2 have been merged, and the commentary and further remarks for each cloud type have been included under an Explanation sub-heading for each. The detailed coding instructions for each cloud code have been moved to new sections of regulatory text: II.8.3.1-3.

The three pictorial decision aids and guidance on their use (II.8.3.1-4) have been revised and improved in appearance and now appear together as non-regulatory text in II.8.3.4.

Not all of the cloud symbols in II.8.4 have yet been sourced in visually appealing electronic format but will be added prior to publication, without change from the 1975 edition.

Part III

Chapter III.1 comprises regulatory material. The tables have been replaced and all subsections have been merged into one but only editorial changes have been made to the text to reach a wider audience.

In Chapter III.2 all definitions in italics comprise regulatory material. The remainder of the text is non-regulatory. Significant expansion of explanatory text has been proposed throughout Part III where scientific knowledge has advanced greatly since 1975 and the section has been rewritten to simplify sentence structure and modernize the language.

In Chapter III.2.1, Hydrometeors other than clouds, a new paragraph has been added on freezing fog, and there is new commentary on the various types of fog. New entries, including proposed definitions, appear for Snow Devil and Steam Devil. The title of Section III.2.1.5 Spout has been changed to Hydrometeors Consisting of a Vortex of Particles, and includes mention of the various types of spout and a table of tornado intensities.

Chapter III.2.2 Lithometeors includes an enhanced section on dust/sand whirl/devil.

Chapters III.2.3 Photometeors and III.2.4 Electrometeors have been extensively changed to include more descriptive explanations to reflect the large advances in understanding since 1975.

In Chapter III.3 very little has been changed.

Each of the three Appendices has been simply updated.

A new Glossary has been added and the Index has been removed, to be replaced by an on-line search engine.