
**Space environment (natural
and artificial) — Process-based
implementation of meteoroid and
debris environment models (orbital
altitudes below GEO + 2 000 km)**

*Environnement spatial (naturel et artificiel) — Lignes directrices
pour une mise en œuvre fondée sur les processus des modèles
environnementaux des météoroïdes et des débris (altitudes d'orbite
inférieures à GEO + 2 000 km)*

Document Preview

ISO 14200:2021

<https://standards.iteh.ai/catalog/standards/iso/6d3bde90-db7c-4aa9-b2c1-0c9011c0fe7e/iso-14200-2021>



iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

ISO 14200:2021

<https://standards.iteh.ai/catalog/standards/iso/6d3bde90-db7c-4aa9-b2c1-0c9011c0fe7e/iso-14200-2021>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2021

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative reference	1
3 Terms and definitions	1
4 Abbreviated terms	2
5 Procedures for the selection and implementation of meteoroid and space debris environment models	3
5.1 General.....	3
5.2 Selection procedure.....	3
5.3 Implementation procedure.....	4
6 International project	4
Annex A (informative) Capability of some meteoroid environment models	5
Annex B (informative) Capability of some space debris environment models	8
Bibliography	13

iTeh Standards (<https://standards.iteh.ai>) Document Preview

[ISO 14200:2021](https://standards.iteh.ai/catalog/standards/iso/6d3bde90-db7c-4aa9-b2c1-0c9011c0fe7c/iso-14200-2021)

<https://standards.iteh.ai/catalog/standards/iso/6d3bde90-db7c-4aa9-b2c1-0c9011c0fe7c/iso-14200-2021>

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 14, *Space systems and operations*.

This second edition cancels and replaces the first edition (ISO 14200:2012), which has been technically revised.

The main changes compared to the previous edition are as follows:

- removal of impact risk assessment requirements;
- in [Annexes A and B](#), information on space debris environment models has been updated (SDEEM 2015 and SDEEM 2019);
- debris flux models: The latest version of each model is briefly described. Descriptions of historical models have been moved to NOTES or deleted;
- since this document now focuses on models that have been developed primarily for impact flux assessment, those models whose main purpose is to study the long-term evolution of the space debris environment have been deleted.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.