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Date: 2011-08-12

Secretariat of ISO/IEC JTC 1/SC 24

Computer graphics, image processing and environmental data representation"

Title: Result of ballot N 3248 PDAM1 18025 2005

Source: ISO/IEC JTC1/SC24 Secretariat

Replaces: --

Document Type: Summary of voting/Table of Replies

Projects: Amendment 1 to 18025 'Information technology – Environmental Data Coding Specification (EDCS)'

Status: FYI

Action ID: Approved for FPDAM ballot after WG8 has addressed the comments submitted at the CD ballot and prepared an updated draft

Due Date: --

Distribution: P, O, L, Members
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Result of voting

Ballot Information

Ballot reference	ISO/IEC 18025:2005/PDAM 1
Ballot type	CD
Ballot title	Information technology -- Environmental Data Coding Specification (EDCS) -- Amendment 1
Opening date	2011-05-10
Closing date	2011-08-10
Note	

Member responses:

Votes cast (9)	China (SAC) Egypt (EOS) France (AFNOR) Japan (JISC) Korea, Republic of (KATS) Portugal (IPQ) Russian Federation (GOST R) United Kingdom (BSI) USA (ANSI)
Comments submitted (0)	
Votes not cast (1)	Germany (DIN)

Questions:

Q.1	"Do you agree to the circulation of the draft as a DIS?"
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Votes by members	Q.1
China (SAC)	Yes
Egypt (EOS)	Yes
France (AFNOR)	We abstain
Japan (JISC)	Yes
Korea, Republic of (KATS)	Yes
Portugal (IPQ)	We abstain
Russian Federation (GOST R)	Yes
United Kingdom (BSI)	Yes
USA (ANSI)	Yes

Answers to Q.1: "Do you agree to the circulation of the draft as a DIS?"		
7 x	Yes	China (SAC) Egypt (EOS) Japan (JISC) Korea, Republic of (KATS) Russian Federation (GOST R) United Kingdom (BSI) USA (ANSI)
0 x	Yes with comments	
0 x	No	
2 x	We abstain	France (AFNOR) Portugal (IPQ)

Comments from Voters		
Member:	Comment:	Date:

Comments from Commenters		
Member:	Comment:	Date:

SEDRIS Organization Comments
on
Environmental Data Coding Specification (EDCS)
ISO/IEC 18025 Amendment
9 August 2011

General Comments

Throughout

SEDRIS_G001: Clause Titles, throughout

Provide a new amendment change instruction to add “(EDCS)” at the end of the title each clause.

Rationale: Missing “(EDCS)”.

SEDRIS_G002: URLs at the bottom of each page

Provide a new amendment change instruction to update the links (URLs) at the bottom of each page to point to the latest standard (instead of Edition 1) or just to the publicly available page.

Rationale: Corrects the out of date links.

SEDRIS_G003: Articles in definition label-text

Provide a new amendment change instruction to remove all articles (the, a, or an) from the label-text of definitions.

Rationale: Articles are not needed in label-text.

SEDRIS_G004: Hover-over text

Editors need to review the standard and verify that all hover-over text is applied correctly. Examples include: "EA" in 4.5.1 3rd paragraph to say "EDCS attribute" (instead of "classification"); "EO" in 4.11 3rd paragraph to say "EDCS organizational schema (instead of "classification"); several instances in 4.10, including EU in 1st paragraph, 1st EQL in 3rd paragraph, 2nd EQL's hover over is missing "unit"; in 4.11, 1st paragraph, EG. Provide a new amendment change instruction for any specific instances that are incorrect.

Rationale: Consistency in hover-over text.

SEDRIS_G005: Multiple main references for a single concept

Editors need to review all concept definitions that have more than one reference in the reference field (to comply with 10.5.4 item g); then remove all but the most relevant reference (either remove or move to supplemental).

Then, as necessary, provide new amendment change instructions to correct all occurrences of more than one reference in the reference field, accordingly.

Rationale: Only one reference in the reference field.

SEDRIS_G006: References to ISO and ISO/IEC standards in the text

Provide new amendment change instructions to correct the use of non-existent reference identifiers for ISO or ISO/IEC standards in the various clauses of the EDCS standard, and instead use the proper name of the ISO or ISO/IEC standard.

The changes will include (but may not be limited to) the following:

In 9.2.2.4, Table 9.3

Change “[I10646]” to read “[[ISO/IEC 10646](#)]”.

In 9.2.5.3

Change “[I639]” to read “[[ISO 639](#)]”, change “[I3166]” to read “[[ISO 3166](#)]”, and change “[I10646]” to read “[[ISO/IEC 10646](#)]”.

In 10.5.1

Change “[ISOD2]” to read “[[ISO/IEC Directives, Part 2](#)]” (2 instances).

In 10.5.2.d, 10.5.2.f, 10.5.3.c

Change “[ISOD2]” to read “[[ISO/IEC Directives, Part 2](#)]”

Rationale: Clause 2 and the Bibliography do not assign Reference Identifiers to ISO Standards. Instead, they "grey-out" the Reference Identifier field/cell. Any identifiers used to refer to ISO or ISO/IEC throughout the EDCS standard should be replaced with the proper name of that ISO or ISO/IEC standard.

Clause 5: EDCS classifications

SEDRIS_G007: Figure pages of Clauses 5 and 6

Review the Narrative section of Figure pages, for the figures added for concepts in Clauses 5 and 6, to ensure use of other EDCS concepts are hyperlinked.

Update the change instructions for all figures pages to correct for this; and to add a link (URL) at the bottom of each Figure page to point to the latest standard or just to the publicly available page.

Rationale: Corrects the incomplete Figure pages.

Clause 6: EDCS attributes

SEDRIS_G008: Enumerants of PRESENT_WEATHER_TYPE – related EAs

Editors should review and ensure the enumerants of the EAs

PRESENT_WEATHER_TYPE_AUTOMATED, PRESENT_WEATHER_TYPE_MANUAL, and PRESENT_WEATHER_TYPE_SPECIAL are consistent with the content and intent of their referencing WMO document and entries. In some cases, the listings in the WMO document

make it difficult to ensure all conditions of the concept as stated in WMO are carried through into the concept definitions in EDCS. For example, conditions such as weather conditions being restricted to a specific time period, or having occurred (or not occurred) in conjunction with thunderstorms, etc. are missing for some enumerants of these EAs.

Once the review is complete and all differences are identified, provide new amendment change instructions to update the definition of these EEs, where appropriate. Refer to other related comments already in this document for some examples of inconsistencies identified.

Rationale: Number, complexity and similarity of many of these concepts, and the differences in presentation and definition styles between WMO and EDCS, seems to have resulted in some entries being defined differently or incompletely than intended in the WMO document. Corrects these unintended differences.

SEDRIS_G009: Review use of military load class as an appropriate unit

Several attributes describe concepts that can be expressed using military load class units. Currently, these attributes are bound to unit equivalence of PURE_NUMBER; however, this is not accurate. The NATO STANAG 2021 (North Atlantic Treaty Organization (NATO). *Military Computation of Bridge, Ferry, Raft and Vehicle Classifications*. 5th ed. Brussels (Belgium): NATO, 1990. Standardization agreement STANAG 2021.) may be used as an authoritative reference to determine how best to bind these attributes with appropriate units. The editors should review these attributes and determine (which in the process may require adding) a better unit equivalence (EQ) and unit entries for these attributes. The affected attributes include LOAD_CLASS_ONE_WAY_TRACKED, LOAD_CLASS_ONE_WAY_WHEELED, LOAD_CLASS_TWO_WAY_TRACKED, LOAD_CLASS_TWO_WAY_WHEELED.

After the review, and if appropriate, provide new amendment change instructions to update these attributes to use a more appropriate EQ, and as needed introduce new units and unit equivalent classes to support these attributes.

Rationale: Provide a more suitable and accurate unit equivalence for these attributes.

Clause 10: Registration

SEDRIS_G010: Incorrect reference to registration authority (throughout)

Provide new amendment change instructions to remove all occurrences of “Graphical” from “Graphical Items”.

Rationale: The text still uses the old title for registration authority.

Annex G: Abbreviations used in construction of labels

SEDRIS_G011: Use of abbreviations listed in Annex G

Editors should review the entries in the standard and verify there are no concept entries whose labels contain abbreviations that do not appear in Annex G. And conversely, all abbreviations that appear in Annex G are used in the label of at least one concept entry.

And, if appropriate, provide new amendment change instructions to correct any discrepancies found after such a review.

Rationale: Ensure consistency between use of abbreviations in labels and the listing in Annex G.

Bibliography

SEDRIS_G012: Throughout

Provide a new amendment change instruction that sorts the contents of Bibliography such that all ISO, ISO/IEC, IEC standards appear and are listed first in the listing.

Rationale: Precedence to ISO standards.

Editorial Comments

Clause 1: Scope

SEDRIS_E001: List items

Correct the error in the change instruction for replacing “i.e.” with “e.g.” by changing the style of the result to italics as “*e.g.*”.

Rationale: Proper style.

Clause 4: Concepts

SEDRIS_E002: 4.8

Provide a new amendment change instruction to change the text and the link for “Table A.6” to just “A.6” and correct the hyperlink to go to the section A.6

Rationale: Table A.6 no longer exists.

Clause 6: EDCS attributes

SEDRIS_E003: Table 6.11, HTML tags for EA GTRS_GEOTILE

The HTML tags for “degree symbol” are incorrect. The appearance is very similar to the correct symbol, but the tag is incorrect.

Provide an amendment change instruction to correct the HTML tags to fix the degree symbol by using "°" instead of "º".

Rationale: Correct the incorrect HTML.

Clause 7: EDCS units

SEDRIS_E004: HTML files for Tables 7.13, 7.14, and 7.15

At the next revision of the standard, Editors will need to update the HTML files that contain these three tables such that the HTML tag <caption> for each of these three tables is properly filled. The files are: unit_eq_A.html, unit_eq_J.html, and unit_eq_O.html

Rationale: Corrects the HTML content the next time the standard is published.

Clause 10: Registration

SEDRIS_E005: 10.2, item i

Provide a new amendment change instruction to change the phrase “that begins either” to “that begins with either”.

Rationale: Missing “with”.

Clause 11: Conformance

SEDRIS_E006: 11.2.2, a

Provide a new amendment instruction to remove the extra “an” after “... used in 9.4”.

Rationale: Typographical error.

Annex B: Groups and references for EDCS classifications

SEDRIS_E007: Table B.13, EC LIGHTNING

Correct the spelling in the change instruction (spelled LIGHTNNG).

Rationale: Typographic error.

Annex G: Abbreviations used in construction of labels

SEDRIS_E008: G.1.2, 2nd sentence

Provide new amendment instructions to place quote marks around “nnn” in “where nnn represents”; and to remove the phrase “in the adjacent column” at the end of the paragraph.

Rationale: Missing quotes. The phrase is unnecessary.

Technical Comments

Table of contents

SEDRIS_T001: Missing text

Provide a new amendment change instruction to add the following text immediately following the TOC table. Ensure any changes to clause titles (as a result of other comments) are incorporated in the below text before producing the new amendment change instruction.

“The *Foreword* provides background on the standards process for ISO/IEC 18025. The *Introduction* describes the purpose and characteristics of EDCS. ISO/IEC 18025 is comprised of:

1. *Scope* defines the subject and aspects that ISO/IEC 18025 addresses.
2. *Normative references* lists the normative references.
3. *Terms, definitions, symbols and abbreviated terms* defines the terms used within ISO/IEC 18025.
4. *Concepts* describes various fundamentals of ISO/IEC 18025.
5. *EDCS classifications* defines the classifications used by ISO/IEC 18025.
6. *EDCS attributes* defines the attributes, attribute value characteristics, and attribute enumerants used by ISO/IEC 18025.
7. *EDCS units* defines the units, unit scales, and unit equivalence classes used by ISO/IEC 18025.
8. *EDCS organizational schema* defines the organizational schema and groups used by ISO/IEC 18025.
9. *EDCS application program interface* defines the abstract functions used by ISO/IEC 18025 to access data.
10. *Registration* defines registration rules and guidelines used by ISO/IEC 18025.
11. *Conformance* specifies the criteria by which implementations of ISO/IEC 18025 can claim conformance.

ISO/IEC 18025 contains the following annexes:

- A. *Deprecated EDCS dictionary entries* provides those EDCS dictionary entries whose use is deprecated.
- B. *Groups and references for EDCS classifications* provides groups and references for those EDCS classifications defined in Clause 5.
- C. *Groups and references for EDCS attributes and references for EDCS attribute value characteristics* provides groups and/or references for EDCS attributes and EDCS attribute value characteristics defined in Clause 6.
- D. *References for EDCS attribute enumerants* provides references for EDCS attribute enumerants defined in Clause 6.
- E. *References for EDCS groups in EO GENERAL* provides references for EDCS groups defined in Clause 8.
- F. *Change and deprecation plan* provides rules and guidelines for change and deprecation of EDCS concepts.

- G. *Abbreviations used in the construction of labels* provides abbreviations used in the construction of labels.
- H. *Relationship to ISO/IEC 18023-1* provides information regarding EDCS' relationship to ISO/IEC 18023-1.
- I. *Templates for registration proposals* provides templates for registration of EDCS concepts.
- J. *Citation acknowledgements* provides acknowledgement of copyright owners for definitions of selected EDCS concepts.

Bibliography lists publications that provide related additional information. ***EDCS dictionary index*** provides hyperlinks to EDCS dictionary entries and deprecations.”

Rationale: Consistency with style of other standards in the family of standards.

Clause 2: Normative references

SEDRIS_T002: Citation for 9973

Provide a new amendment change instruction to cite the latest (2006, or later) version of ISO/IEC 9973.

Rationale: The 1994 version of 9973 is cited.

SEDRIS_T003: IEEE 754

Provide a new amendment change instruction to replace the entry for IEEE 754 with 2011 edition of IEC 60559 (when it is released).

Rationale: Use the latest reference.

SEDRIS_T004: Citation of ISO 31

Provide a new amendment change instruction to move all citations of ISO 31 from the Bibliography to Clause 2.

Use ISO 80000 instead of ISO 31, and perform the necessary mapping between the two standards in order to replace those parts of ISO 31 used in 18025 with the appropriate parts from ISO 80000.

Rationale: EDCS depends on ISO 31 as a normative reference. ISO 31 has been superseded by ISO 80000.

SEDRIS_T005: Citation for ISO 690

Provide a new amendment change instruction to change “ISO 690:1987” to read “ISO 690:2010”.

Rationale: Use the latest version.

SEDRIS_T006: Citation of WMO9A

Provide a new amendment change instruction to move WMO9A from the Bibliography to Clause 2.

Rationale: WMO9A is needed in order to implement and/or fully understand the concept entries that cite this reference.

Clause 4: Concepts

SEDRIS_T007: 4.1.2, 1st sentence

Provide a new amendment change instruction to remove the word “physical”.

Rationale: Unnecessary and confusing use of the word.

SEDRIS_T008: 4.1.4

Provide a new amendment change instruction to revise this sub-clause as follows.

“4.1.4 Capitalization

In this International Standard, the use of first letter capitalization is restricted to:

- a. the name of this International Standard,
- b. the names of EDCS dictionaries,
- c. proper nouns, and
- d. the first word of titles.

In addition, all letters in an abbreviation are capitalized.

The rules governing capitalization in concept labels are given in 10.3.”

Rationale: Clarifies uses of capitalization under various conditions.

SEDRIS_T009: 4.3.4.3, last sentence

Provide a new amendment change instruction to replace the last sentence with the following:

“If the wording of the concept definition was derived from a different source than the concept itself and the concept is not a commonly understood concept, a citation to the source of the wording shall be included within the concept definition field.”

Rationale: Clarifies conditions under which citations are provided, as well as when reference field may be left blank.

SEDRIS_T010: 4.3.4.4, 2nd paragraph

Provide a new amendment change instruction to add the phrase “for the same entry” after the phrase “... of an EDCS dictionary entry shall not be repeated”.

Rationale: Adds further clarity.

SEDRIS_T011: 4.5.1, last paragraph, 3rd sentence

Correct the amendment change instruction for 4.5.1 (last paragraph, 3rd sentence) such that the “to” portion of the change instructions says “attribute” and not “classification”.

Rationale: Incorrect change instruction (the replacement part of the instructions is identical to what is being replaced).

SEDRIS_T012: 4.6, 3rd paragraph

Replace the change instruction for 4.6 (3rd paragraph, c and d) with the following. The change instruction is malformed. The correct change instruction is:

4.6, 3rd paragraph, b and c

Replace with the following, inserting new list item d: "

- b. a reference,
- c. supplemental references, and
- d. figures.

"

Rationale: Incorrect change instruction (the correct change instruction should not introduce a new list item “e”, just “d”).

Clause 5: EDCS classifications

SEDRIS_T013: AERODROME_REVETMENT

Provide a new amendment change instruction to update the definition of this EC as follows, and provide figures/images, if appropriate (also update the reference):

“Raised <WALL>s or <STRUCTURE>s, located at an aerodrome, designed to provide protection against hazards, including bombs, rockets, grenades, small arms fire, the effects of blast and fragmentation, and/or the effects of natural forces; aerodrome revetment”

Rationale: Improves the clarity of the definition.

SEDRIS_T014: ECs ANCHOR and ANCHOR_BERTH

Provide new amendment change instructions to update the definition of these ECs as follows:

ANCHOR: Remove the phrase “and/or an <OFFSHORE_PLATFORM>”

ANCHOR_BERTH: Remove the phrase “a <OIL_DRILLING_RIG>,”

Rationale: Both are non-normative examples that don’t match the concept well and confuse the intent of the concept.

SEDRIS_T015: ECs HIGH_CLOUD, LOW_CLOUD, MIDDLE_CLOUD

Provide new amendment change instructions to add supplemental references to these ECs as follows:

HIGH_CLOUD: Supp Ref: [GMET, "cloud classification", 2, "high clouds"]

LOW_CLOUD: Supp Ref: [GMET, "cloud classification", 2, "low clouds"]

MIDDLE_CLOUD: Supp Ref: [GMET, "cloud classification", 2, "middle clouds"]

Rationale: Additional supplemental reference is provided.

SEDRIS_T016: ICE_SHELF

Provide a new amendment change instruction to update the definition of this EC as follows:

"A thick sheet of <ICE> usually of great extent, mostly afloat on a <WATERBODY_SURFACE>, with a level or undulating <SURFACE> and attached to <LAND>; ice shelf. The seaward edge is termed an <ICE_CLIFF> (ice front)."

Rationale: Improves the clarity of the definition.

SEDRIS_T017: PACK_ICE

Update the amendment change instruction to revise the definition of this EC to the following:

"A <REGION> of <ICE> on a <WATERBODY> formed by the drifting and crushing together of ice floes, where the term is used in a wide sense to include any <REGION> of sea ice other than fast ice; pack ice. The movement of individual floes is restricted as the pack moves as a single unit.."

Also, change the main reference to S32 as [S32, "pack ice"], make the current main reference the supplemental reference, and change the reference type to IR

Rationale: Improves the clarity of the definition, and provides a more relevant reference.

SEDRIS_T018: ECs PLATEAU, MESA, and BUTTE

Provide new amendment change instructions and/or update the existing amendment change instructions to revise the definitions of these ECs as follows:

PLATEAU: "A relatively flat <TERRAIN_SURFACE_REGION> that falls off gradually on at least one side; plateau."

MESA: "A <PLATEAU> that has eroded to have steep sides with a sizeable flat top; mesa."

BUTTE: "A <MESA> that has further eroded to have steep but sloping sides resulting in a rounded top; butte."

Rationale: Definitions were incomplete and were not relating to each other as well as these geology terms should.

SEDRIS_T019: ECs related to star and solar system concepts

The definitions of several of the concepts related to stars and solar system are either inconsistent with each other, incomplete, or lacking.

Provide new amendment change instructions to update the definition of the following ECs and introduce new ECs, as follows:

STAR_SYSTEM: Introduce this new EC with the following definition, reference, reference type, supplemental reference, and group assignment: A <STAR> and its family of <PLANET>s, natural <SATELLITE>s, <ASTEROID>s, and <COMET>s that are captured by its gravity; a star system.”

Reference:

Reference type:

Supplemental reference:

Group assignment: EM_PHENOMENON, SPACE

SOLAR_SYSTEM: Replace the definition with: “The <STAR_SYSTEM> containing the <SUN>.”

SUN: Change the definition to: “The central <STAR> of the <STAR_SYSTEM> containing the <EARTH>; the Sun.”

CELESTIAL_BODY: Change the definition to: “Any <OBJECT> pertaining to the heavens and constituting a unit for astronomical study; a celestial body. EXAMPLES <STAR>, <PLANET>, <COMET>.”

PLANET: Change the definition and add a reference as follows: “A <CELESTIAL_BODY> that (a) is in orbit around a <STAR>, (b) has sufficient <<MASS>> for its self-gravity to overcome rigid body forces so that it assumes a hydrostatic equilibrium (nearly round) shape, and (c) has cleared the neighbourhood around its orbit; planet.”

Reference: [IAUB5]

Reference type: IR

DWARF_PLANET: Introduce this new EC with the following definition, reference, reference type, supplemental reference, and group assignment: “A <CELESTIAL_BODY > that (a) is in orbit around a < STAR >, (b) has sufficient <<MASS>> for its self-gravity to overcome rigid body forces so that it assumes a hydrostatic equilibrium (nearly round) shape, (c) has not cleared the neighbourhood around its orbit, and (d) is not a <SATELLITE>; dwarf planet.”

Reference: [IAUB5]

Reference type: IR

Supplemental reference:

Group assignment: SPACE

PLUTO: Change the definition and reference to: “The <DWARF_PLANET> of the <SUN> whose orbit is primarily outside that of <NEPTUNE>; Pluto.”

Reference: [IAUB6]

Reference type: IR

SMALL_STAR_SYSTEM_BODY: Introduce this new EC with the following definition, reference, reference type, supplemental reference, and group assignment: “A <CELESTIAL_BODY>, except a <PLANET>, a <DWARF_PLANET> or a <SATELLITE>, that orbits a <STAR>; small star system body.”

Reference: [IAUB5]

Reference type: IR

Supplemental reference:

Group assignment: SPACE

SMALL_SOLAR_SYSTEM_BODY: Introduce this new EC with the following definition, reference, reference type, supplemental reference, and group assignment: “A <SMALL_STAR_SYSTEM_BODY> that is a member of the <SOLAR_SYSTEM>.”

Reference:

Reference type:

Supplemental reference:

Group assignment: SPACE

ASTEROID: Deprecate this EC.

STAR_SYSTEM_ASTEROID: Introduce this new EC with the following definition, reference, reference type, supplemental reference, and group assignment: “Any of the collection of numerous <SMALL_STAR_SYSTEM_BODY>s that orbit a <STAR> concentrated at a particular distance; an asteroid. [SOED, "asteroid", A.1].”

Reference:

Reference type:

Supplemental reference:

Group assignment: SPACE

SOLAR_SYSTEM_ASTEROID: Introduce this new EC with the following definition, reference, reference type, supplemental reference, and group assignment: “A <STAR_SYSTEM_ASTEROID> in the <SOLAR_SYSTEM>, with an orbit lying chiefly between <MARS> and <JUPITER>.”

Reference:

Reference type:

Supplemental reference:

Group assignment: SPACE

COMET: Change the definition to: “A <SMALL_STAR_SYSTEM_BODY> that orbits a <STAR> in a highly elliptical path and, when in the vicinity of that <STAR>, usually has a bright hazy head and a long more diffuse tail; a comet [SOED, "comet", A.1].”

SATELLITE: Change the definition to: “A <CELESTIAL_BODY> that revolves around a larger <CELESTIAL_BODY>, usually a <PLANET> or <DWARF_PLANET>; satellite [SOED, "satellite", A.2.a].”

INTERPLANETRAY_MAGNETIC_FIELD: In the definition, change “<SOLAR_SYSTEM>” to “<STAR_SYSTEM>”.

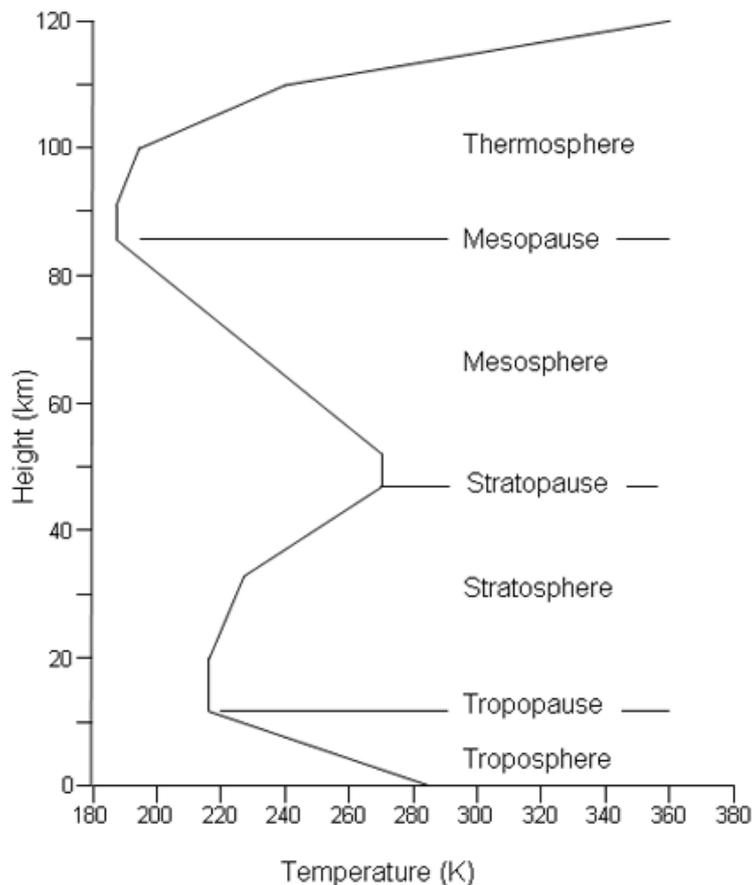
KUIPER_BELT: In the definition, remove the phrase “of the <SUN>” from the definition.

See the comments in Bibliography section of this document for full citation of the IAUB5 and IAUB6 references.

Rationale: Provide a consistent treatment of the concepts across the various ECs. Update the definitions to reflect the most recent changes by authoritative sources. Provide more authoritative references.

SEDRIS_T020: Figure for ECs TROPOSPHERE, TROPOPAUSE, STRATOSPHERE, and STRATOPAUSE

Provide new amendment change instructions to add the following figure for these ECs:



And use the following as the narrative for the figure:

“Narrative

The plot shows the vertical structure of the Earth's atmosphere and the names of the various layers. The profile is based on the IACO Standard Atmosphere. The heights and temperatures vary with latitude and season.”

Rationale: Aids in the clarity of the concepts.

Clause 6: EDCS attributes

SEDRIS_T021: Erroneous amendment change instructions

Remove the amendment change instructions for the following EAs from the specified locations:

EA BREACHED – Remove from Clause 6 and Annex C

EA BUOYANT – Remove from Clause 6 and Annex C

EA REINFORCED – Remove from Annex C

Rationale: These are registered items and will be included in the amendment at the final stage.

SEDRIS_T022: Updates to references of several weather and/or atmospheric related EAs

Provide new amendment change instructions to revise the references, supplemental references, and/or reference types of the following attributes (some may require further research and/or verification), as follows:

HIGH_CLOUD_TOP_LEVEL:

Reference can be removed. Does not need a reference, because the ECs CLOUD_TOP_LEVEL and HIGH_CLOUD in its definition carry the concept. However, editors may consider replacing the reference with [WMO306, VI.1 Part a., "Code table 0491"]

LOW_CLOUD_TOP_LEVEL:

Reference can be removed. Does not need a reference, because the ECs CLOUD_TOP_LEVEL and LOW_CLOUD in its definition carry the concept. However, editors may consider replacing the reference with [WMO306, VI.1 Part a., "Code table 0491"]

MAXIMUM_WIND_SPEED:

Reference can be removed. Does not need a reference because the EA WIND_SPEED covers the concept.

MEAN_AIR_TEMP_DIFFERENCE_CLIM:

No reference available.

Remove GMET. Does not need a reference.

MEAN_AIR_TEMP_MAX_DIFFERENCE_CLIM:

No reference available.

Remove GMET. Does not need a reference.

MEAN_AIR_TEMP_MIN_DIFFERENCE_CLIM:

No reference available.

Remove GMET. Does not need a reference.

MEAN_AIR_WATER_TEMP_DIFF_CLIM_STD_DEV:

No reference available.

Remove GMET. Does not need a reference.

MEAN_DEW_POINT_CLIMATOLOGY:

No reference available.

Remove GMET. Does not need a reference.

MIDDLE_CLOUD_TOP_LEVEL:

Reference can be removed. Does not need a reference, because the ECs

CLOUD_TOP_LEVEL and MIDDLE_CLOUD in its definition carry the concept. However, editors may consider replacing the reference with [WMO306 VI.1 Part a., "Code table 0491"]

SURFACE_EM_ABSORPTIVITY

Replace the reference with: [WMO182, "absorptance"]

Add supplemental reference as: [GMET, "absorptivity"]

SURFACE_EM_ABSORPTIVITY_SOLAR

Reference can be removed. Does not need a reference, because the EA

SURFACE_EM_ABSORPTIVITY covers the concept.

Rationale: More specific references are provided. Or the GMET reference is not appropriate and the concept is clear as-is.

SEDRIS_T023: For respective EE PARTIAL_OBSCURATION of the EAs BELOW_STATION_CLOUD_COVERAGE, LOWEST_CLOUD_COVER_CATEGORY, and TOTAL_CLOUD_COVER_CATEGORY

Provide a new amendment change instruction to revise the definition to:

“Sky partially obscured by <FOG> and/or other meteorological phenomena”.

Rationale: Consistent with the referenced concept in WMO.

SEDRIS_T024: EA BUOY_TYPE - EE CABLE

The amendment change instruction is incorrect. The correct change instruction is:

Change the definition to: “Indicates the <LOCATION> of submarine cables or the <LOCATION> at which they run on to <LAND>.”

Also change the reference type to PR.

Rationale: The change instruction should not have used “<ELECTRICAL_CABLES>”, since there is no rationale that the cables were meant to be just electrical cables. Further S57 also specifies the point at which cables run into the land. Reference type needs to be updated, since the definition is now using wording directly from S57.

SEDRIS_T025: EA EM_BAND enumerants

Provide new amendment change instructions to correct the following enumerants of EM_BAND.

RF: Change the definition to indicate that RF bands (radio frequency) omit microwave bands.

ULF: The New World Encyclopedia defines the ULF (ultra-low frequency) band as 300Hz to 3kHz. It does not show there are any portions of the electromagnetic spectrum below 3 Hz. The current ULF enumerant should be deprecated and a new VF_ULF should be created for 300Hz to 3kHz.

ELF: The New World Encyclopedia defines the ELF (extremely low frequency) band as 3Hz to 30Hz instead of 3 Hz to 3kHz. Correct this error.

Missing is the SLF (super low frequency) band defined to be from 30Hz to 300Hz and the VF/ULF (voice frequency) band from 300Hz to 3kHz.

VHF: The definition is correct but is not as clear as it could be. Add “megahertz” after the 30.

Q: This is a special radio subband within the VHF band. Change the definition to indicate this as follows: “Q-band, a radio subband within the VHF band, 36 megahertz to 46 megahertz.” The label should be changed to “Q_RADIO” to distinguish it from the Q microwave band.

P: This is a special radio subband that spans portions of the VHF and UHF bands. Change the definition to indicate this as follows: “P-band, a special radio subband that overlaps the boundary of the VHF and UHF bands, 225 megahertz to 390 megahertz.” The label should be changed to “P_RADIO” to indicate that it is a radio subband.

L: This is a microwave subband within the UHF band. Change the definition to indicate this as follows: “L-band, a microwave subband within the UHF band, 1 gigahertz to 2 gigahertz.”

S: This is a microwave subband that spans portions of the UHF and SHF bands. Change the definition to indicate this as follows: “S-band, a special microwave band that overlaps the boundary of the UHF and SHF bands, 2 gigahertz to 4 gigahertz.”

C: This is a microwave subband within the SHF band. Change the definition to indicate this as follows: “C-band, a microwave subband within the SHF band, 4 gigahertz to 8 gigahertz.”

X: This is a microwave subband within the SHF band. Change the definition to indicate this as follows: “X-band, a microwave subband within the SHF band, 8 gigahertz to 12 gigahertz.”

KU: This is a microwave subband within the SHF band. Change the definition to indicate this as follows: “K_U-band, a microwave subband within the SHF band, 12 gigahertz to 18 gigahertz.”

K: This is a microwave subband within the SHF band. Change the definition to indicate this as follows: “K-band, a microwave subband within the SHF band, 18 gigahertz to 27 gigahertz.”

KA: This is a special microwave subband that spans portions of the SHF and EHF bands. Change the definition to indicate this as follows: “K_A-band, a special band that overlaps the boundary of the SHF and EHF bands, 27 gigahertz to 40 gigahertz.”

V: This is a microwave subband within the EHF band. Change the definition to indicate this as follows: “V-band, a microwave subband within the EHF band, 50 gigahertz to 75 gigahertz.” Missing is the U band defined to be 40 gigahertz to 60 gigahertz. This band overlaps Q and V microwave subbands.

W: This is a microwave subband within the EHF band. Change the definition to indicate this as follows: “W-band, a microwave subband within the EHF band, 75 gigahertz to 110 gigahertz.” Missing is the E band defined to be 60 gigahertz to 90 gigahertz. This band overlaps V and W microwave subbands but the E band designation is not widely used or recognized. The previous definition seems to lump the W, F, and D subbands together as the W subband (see next comment). The new definition provided above is the generally recognized definition.

Missing microwave subbands above the W band: Missing are the F band (90 gigahertz to 140 gigahertz) and D band (110 gigahertz to 170 gigahertz). These can be created, or left for later by registration when needed, as they are not generally recognized.

References for the Microwave bands: The L through W bands are from IEEE 521-1984. The preferred reference is ANSI/IEEE 521-2002. The information in that standard needs to be verified by someone who can access the IEEE documents. The 2002 version may include some of the other bands.

Infrared: The definitions for the three divisions of infrared radiation are most authoritatively set from ISO 20473. The current definitions in the standard do not seem to agree with those from ISO 20473, although the table in the New World Encyclopedia does. The following definitions (from the New World Encyclopedia) apply:

FAR_INFRARED: Far infrared (FIR), 300 gigahertz to 6 terahertz.

MID_INFRARED: Mid infrared (MIR), 6 terahertz to 100 terahertz.

NEAR_INFRARED: Near infrared (NIR), 100 terahertz to 385 terahertz.

Consider deprecating the **EXTREME_INFRARED**, **SUBMILLIMETER**, **FAR_INFRARED**, **INTERMEDIATE_INFRARED**, and **NEAR_INFRARED** enumerants and replace them with those above.

To keep to the rules, the text “_BAND” should be appended to the new **FAR_INFRARED** and **NEAR_INFRARED** labels. The current **INFRARED** definition should be kept but the upper limit should be changed to 385 terahertz. Thus, it is a generic label that covers all of the infrared portion of the EM spectrum. The current divisions have been verified against ISO 20473. Given the name of that standard (Spectral Bands), it should be used as the primary reference for infrared, visible light, and ultraviolet (all that this standard covers).

VISIBLE: This range can only be approximate as the limits vary from human to human. Given that ISO 20473 ends **NEAR_INFRARED** at 385 terahertz, this range should start at 385 terahertz and can end at 790 terahertz, which covers the usual visible light range. Consider changing the definition to start at 385 terahertz rather than 384 terahertz.

RED: This range can only be approximate as the limits vary from human to human. Given that ISO 20473 ends **NEAR_INFRARED** at 385 terahertz, this range should start at 385 terahertz and can end at approximately 482 terahertz, which covers the usual red range. Consider changing the definition to start at 385 terahertz rather than 384 terahertz.

VIOLET: Consider changing the definition to end at 790 terahertz instead of 769 terahertz.

UV: This definition is incorrect. There is general agreement that all forms of UV radiation fall in the range 790 terahertz to 30 petahertz. The definition should be modified to change “300” to “30”.

FARULTRAVIOLET: The label is incorrect in that it also incorporates part of the X-ray spectrum.

This enumerant should be deprecated. Instead, a new enumerant should be defined with label “**EXTREME_UV**” and definition “Extreme ultraviolet, 3 petahertz to 30 petahertz.” Use ISO 20473 as the reference. The term “**NEAR_UV**” could be split into the following bands closest to visible light:

NEAR_UV: near ultraviolet, approximately 790 terahertz to approximately 950 terahertz.

MID_UV: mid ultraviolet, approximately 950 terahertz to approximately 1.07 petahertz.

DEEP_UV: deep ultraviolet, approximately 1.07 petahertz to approximately 1.580 petahertz. **VACUUM_UV:** vacuum ultraviolet, approximately 1.58 petahertz to approximately 3 petahertz.

EXTREME_UV: extreme ultraviolet, approximately 3 petahertz to approximately 30 petahertz.

There is a table in ISO 21348:2007 that does this.

UV_A, UV_B, UV_C: This is another way to subdivide the NEAR_UV band and is primarily used for human health and other biological situations. However, the definition should be changed to:

UV_A: Ultraviolet A, approximately 790 terahertz to approximately 950 terahertz.

UV_B: Ultraviolet B, approximately 950 terahertz to approximately 1.07 petahertz.
(Existing definition could be used)

UV_C: Ultraviolet C, approximately 1.07 petahertz to approximately 3 petahertz.
(Existing definition could be used).

The three definitions above should reference ISO 20473.

X_RAY: The current range is not a range generally accepted. Instead, the entire X-Ray spectrum goes from 30 petahertz to 30 exahertz, with that divided into a “soft x-ray (SX)” spectrum from 30 petahertz to 3 exahertz and “hard x-ray (HX) from 3 exahertz to 30 exahertz. Consider adopting these two new definitions with labels “SOFT_X_RAY” and “HARD_X_RAY”.

GAMMA_RAY: The generally accepted range is 30 exahertz to 300 exahertz. Consider changing the label to just “GAMMA” and the definition to “gamma, 30 exahertz to 300 exahertz.”

Rationale: Correction to errors in the definitions, updates to definitions to ensure consistency across the enumerants and with referenced and/or authoritative material, and suggested improvements.

SEDRIS_T026: EE LIQUID_PRECIP_FREEZING of EA PRECIPITATION_TYPE
Provide a new amendment change instruction to add WMO182 as supplemental reference for this EE, as: [WMO182, F1150, "freezing precipitation"]

Rationale: Corrected reference.

SEDRIS_T027: EEs CLD DISSOLVING_NO_PRECIP and CLD_FORMING_NO_PRECIP of EA PRESENT_WEATHER_TYPE_MANUAL

Provide new amendment change instructions to change the EE definitions as follows:

CLD_FORMING_NO_PRECIP: “Characteristic change of sky during the past hour at the <WEATHER_STATION> with <CLOUD>s generally forming or developing, and no <PRECIPITATION>, <FOG> (<WATER> or <ICE>), dust-storm, sandstorm, drifting or blowing <SNOW_GROUND_COVER> at the <WEATHER_STATION> during the past hour nor at time of observation, and no meteors except photometeors.”

CLD DISSOLVING_NO_PRECIP: “Characteristic change of sky during the past hour at the <WEATHER_STATION> with <CLOUD>s generally dissolving or becoming less developed,

and with no <PRECIPITATION>, <FOG> (<WATER> or <ICE>), dust-storm, sandstorm, drifting or blowing <SNOW_GROUND_COVER> at the <WEATHER_STATION> during the past hour nor at time of observation, and no meteors except photometeors.”

Rationale: Rearrangement of definition phrases and alignment with source.

SEDRIS_T028: EEs of EA PRESENT_WEATHER_TYPE_MANUAL

Update the amendment change instructions for the following EEs by changing “and/or” to “or” and adding the phrase “during the past hour nor at time of observation” to the end of the definition.

FOG_CONTINUOUS_NO_PRECIP
FOG_PATCHES_NO_PRECIP
PRECIP_gt_5r0_KM
PRECIP_NOT_SURFACE

Rationale: To make the definitions correspond to that in the reference.

SEDRIS_T029: EA PRESENT_WEATHER_TYPE_MANUAL, EE FOG_PATCHES

Update the amendment change instruction for this EE to add the phrase “and no precipitation at time of observation” at the end of definition, and change “and/or” to “or” in the definition.

Rationale: To make the definition correspond to that in the reference.

**SEDRIS_T030: EA PRESENT_WEATHER_TYPE_MANUAL, EEs
NO_CLD_DEVL_NO_PRECIP**

Update the amendment change instructions for these EEs by changing “and/or” to “or” and adding the phrase “nor at time of observation, and no meteors except photometeors” at the end of the definition.

Rationale: To make the definition correspond to that in the reference.

**SEDRIS_T031: EEs DIAMOND_DUST and ICE_PLLT of EA
PRESENT_WEATHER_TYPE_MANUAL**

Update the amendment change instructions for these EEs to add the phrase “, not in showers, at the weather station” before the “at” in the definition

Rationale: To make the definitions correspond to that in the reference.

SEDRIS_T032: Enumerants of EA PRESENT_WEATHER_TYPE_MANUAL

Update the amendment change instructions for the following EEs to add the phrase “at the weather station” before the first comma in the definition:

MOD_HVY_RAIN_SHOWER
MOD_HVY_MIXED_RAIN_SNOW

MOD_HVY_SNOW_SHOWER
SL_RAIN_SHOWER
SL_RAIN_SNOW_MIXED

And provide new amendment change instructions for the following EEs to add the phrase “at the weather station” before the first comma in the definition:

MOD_HVY_DRZL_AND_RAIN
MOD_HVY_FRZ_DRZL
MOD_HVY_FRZ_RAIN
MOD_HVY_RAIN
MOD_HVY_RAIN_DRZL_SNOW
SL_DRZL_AND_RAIN
SL_FRZ_DRZL
SL_FRZ_RAIN
SL_RAIN
SL_RAIN_SNOW_DRZL

Rationale: To make the definitions correspond to that in the reference.

SEDRIS_T033: Enumerants of EA PRESENT_WEATHER_TYPE_MANUAL

Update the amendment change instruction for EE MOD_HVY_HAIL_SHOWERS, and provide a new amendment change instruction for EE SL_HAIL_SHOWERS, to add the phrase “at the weather station” between the “mixed” and the comma in their respective definitions.

Rationale: To make the definition correspond to that in the reference.

SEDRIS_T034: EE DRY_THUNDERSTORM of EA PRESENT_WEATHER_TYPE_SPECIAL

Correct the amendment change instruction for the reference for this EE as follows:

“[WMO306, Volume I.1, Part A, Code table 4687:17 and Volume I.1, Part A, Definitions: "dry thunderstorm"]”

Rationale: This is a more precise reference than the one in the amendment change instruction.

SEDRIS_T035: EA RUNWAY_SURFACE_CONDITION

Provide a new amendment change instruction to revise the definition by adding the phrase “due to the weather” to the end of the definition.

Rationale: Clarity.

SEDRIS_T036: EE SATELLITE of EA WIND_EQUIPMENT_TYPE

Provide a new amendment change instruction to revise the definition as follows: “GPS was used to track the <LOCATION>s of the balloon; satellite.”

Rationale: Current definition, although correct, is too obscure without very specific expert knowledge.

SEDRIS_T037: EE OUTBUILDING of EA UTILITY_USE

Provide a new amendment change instruction to deprecate this enumerant.

Rationale: The concept has been retired in the referenced document.

SEDRIS_T038: EE PILOT_BALLOON of EA ATM_PROFILE_MEASUREMENT_TECHNIQUE

Revise the definition and references as follows:

“A free balloon whose path while moving upwards is visually observed using a theodolite in order to measure upper <WIND>s; pilot balloon.”

Change reference to: [WMO182, P0620, “pilot balloon”]

Add Supplemental Reference: [GMET, “pilot balloon”].

Rationale: Clarity in definition and use of more relevant and appropriate references. (Replaces amendment change instructions)

SEDRIS_T039: EA MASS_EXTINCTION_COEFFICIENT

Provide a new amendment change instruction to revise the definition to remove the semicolon in the definition and the article in label text:

“The ratio of the extinction coefficient to the <<MATERIAL_DENSITY>> of the transmission medium and can also be expressed by the natural logarithm of <<TRANSMISSIVITY>> divided by <<LENGTH>> of propagation and again by <<MATERIAL_DENSITY>>; mass extinction coefficient.”

Rationale: Consistency in definition style.

SEDRIS_T040: EA CASE_BURIAL_FRACTION

Provide a new amendment change instruction to revise the definition to:

“A number between 0 and 1 inclusive representing the linearly-scaled fraction of a case for an item of <EQUIPMENT> that is buried beneath the <TERRAIN>. Zero means not buried at all and one means completely buried.”

Rationale: Concept of "EQUIPMENT" should not be used as singular.

SEDRIS_T041: Erroneous amendment change instructions

Eliminate the amendment change instructions for the following, since they are erroneous (and the correct change instructions appear for Annex A):

Table 6.40 for the EEs of EA EXISTENCE_STATUS
Table 6.51 for the EEs of EA POLYGONAL_FACE_TYPE
Table 6.56 for the EEs of EA USAGE

Rationale: Erroneously duplicated the Annex A amendment change instructions.

SEDRIS_T042: Malformed amendment change instructions

The following EEs have malformed change instructions:

EA EM_BAND - EE GREEN

The change instruction was intended to say "Change" and not "Remove" (it was intended to express 'change X to Y').

EA MARK_TYPE - EE STARBOARD_LATERAL

The first of the 2 change instructions in clause 6 for EE STARBOARD_LATERAL were intended to be change instructions for EE MODIFIED_STARBOARD_LATERAL.

EA OCEAN_FLOOR_REGION_NAME_TYPE - EE DEEP

The change instruction for the reference and reference type were intended to be 'Change to PR [SUFN, "deep"].'

EA SOIL_TYPE - EE CLAYEY_SAND

Has an extra period in the change instruction, but it doesn't affect how it would be applied.

EA SOIL_TYPE - EE MICRACEOUS

The label change was intended to change the EE label to ELASTIC_SILT. All the other related change instructions and applied changes are consistent with the ELASTIC_SILT rename.

EA TERRAIN_TRAFFICABILITY_FINE - EE TYPE_115, EE TYPE_129, and EE TYPE_140

The change instructions for these EEs don't state correctly what needed to be replaced. The three EEs were intended to have change instructions as: Change 'silty <SAND>s or sand-silt mixtures' to "'silty sand'".

EA WETLAND_SURFACE_FORM - EE PALSA_BOG

The change instruction is missing a space before the 'to'.

Rationale: Correction of malformed amendment change instructions.

SEDRIS_T043: EA MARINE_REGION_TYPE - EE FAIRWAY

Editors should review reference documents (such as S32, S57A, etc.), and revise or update the definition and/or reference accordingly.

After the review, and if appropriate, provide new amendment change instructions to incorporate the changes from the review.

Rationale: Ensures concept is consistent and up to date.

SEDRIS_T044: EA WETLAND_SURFACE_FORM - EE PALSA_BOG

Editors should review this concept, and revise or update the definition and/or reference accordingly.

After the review, and if appropriate, provide new amendment change instructions to incorporate the changes from the review.

Rationale: Ensures concept is consistent and up to date.

SEDRIS_T045: EEs LOWER_LOW_WATER, MEAN_LOW_SPRINGS, and MEAN_LOW_WATER of EA SOUNDING_DATUM_TYPE

Editors should carefully review these concept for the use of terms “low water” and “high water”, then revise or update the definition to properly use the correct term(s).

After the review, and if appropriate, provide new amendment change instructions to incorporate the changes from the review.

Rationale: The terms "low water" and "high water" have two meanings, depending on use. One use may be about the tide level, and the other about datum value (to measure from). These have been confused in the definitions that use these terms. Editors need to review and fix these.

SEDRIS_T046: Enumerants of EA PRESENT_WEATHER_TYPE_SPECIAL

Provide new amendment change instructions for the following EEs of this EA. The amendment change instructions for the following EEs are missing in the amendment:

SNOW_PLLT – Deprecate this EE (definition is wrong; a snow pellet is not a "pellet of snow precipitation"), and remove the change instruction for this EE from Annex D.

SNOW_PLLT_HAIL – Introduce this as a new EE with the following definition: “Precipitation of snow pellets or <SMALL_HAIL>.”, and set its reference to: [WMO306, Volume I.1, Part A, Code table 4687:84]

SNOW_PLLT_RAIN – Revise the definition of this EE to: “<<<SNOW_PLLT_HAIL>>> occurring with <RAIN>.”

And also update the amendment change instructions for the following EEs of this EA to result in the following definitions:

SNOW_PLLT_MIXED_RAIN_SNOW – Revise the definition of this EE to: “<<<SNOW_PLLT_HAIL>>> occurring mixed with <RAIN> and/or <SNOW_PRECIPITATION>.”

SNOW_PLLT_SNOW – Revise the definition of this EE to: “<<<SNOW_PLLT_HAIL>>> occurring with <RAIN>.”

Rationale: Adding the missing amendment change instructions, and correcting the existing amendment change instructions.

SEDRIS_T047: Enumerants of EA PRESENT_WEATHER_TYPE_MANUAL

Update the amendment change instructions for the following EEs of this EA to result in the following definitions:

MOD_HVY_SNOW_PLLT_SHOWER – Revise the definition of this EE to: “Shower(s) of snow pellets or <SMALL_HAIL>, slight at the time of observation.”

SL_SNOW_PLLT_SHOWER – Revise the definition of this EE to: “Shower(s) of snow pellets or <SMALL_HAIL>, with or without <RAIN> or <RAIN> or <SNOW_PRECIPITATION> mixed, slight at the time of observation.”

Rationale: Updating the existing amendment change instructions.

SEDRIS_T048: Missing amendment change instructions

Provide new amendment change instructions for the following EEs. The amendment change instructions for the following EEs are missing in the amendment:

EA WET_SOIL_TRAFFICABILITY - EE GW_GP_SW_SP

Change "GW: Well-graded gravels or gravel-sand-mixtures, little or no fines" to '<<SOIL_TYPE>> "well-graded gravel"'.

Change "GP: poorly-graded gravels or gravel-sand-mixtures, little or no fines" to '<<SOIL_TYPE>> "poorly-graded gravel"'.

Change “SW: Well graded <SAND>s or gravelly <SAND>s, little or no fines” to '<<SOIL_TYPE>> “well-graded sand”'.

Change “SP: poorly-graded <SAND>s or gravelly <SAND>s, little or no fines” to '<<SOIL_TYPE>> “poorly-graded sand”'.

Insert “; GW GP SW SP” before the period.

Rationale: Adding the missing amendment change instructions.

SEDRIS_T049: Erroneous amendment change instructions

Remove the amendment change instructions for the following EE and EAs from the amendment:

EA SECURITY_SYSTEM_TYPE - EE PRESSURE_PAD

EA ANCHORED

EA PLATOON_ACCOMMODATION_AVAILABILITY_COUNT

Rationale: These are registered items and will be included in the amendment at the final stage.

SEDRIS_T050: EA CONVECTION_COEFFICIENT

Replace the reference for this EA with [HOLMAN].

Rationale: Use of a more authoritative reference.

SEDRIS_T051: Various EAs having GMET as a reference

Provide new amendment change instructions to correct or update the references and/or supplemental references of the following EAs that currently reference GMET:

ICING_TYPE: Ref: [WMO182, I0200, "icing"]; Supp Ref: [GMET, "icing"]

LINEAR_ATTENUATION_COEFFICIENT: Ref: [GMET, "attenuation coefficient"]

Also, editors should consider removing LINEAR from the label of this EE, otherwise the EE may be confused that there are non-linear attenuation coefficients.

LUNAR_DIFFUSED_IRRADIANCE: Ref: [WMO182, D0580, "diffused light", I1050, "irradiance"]; Supp Ref: [GMET, "diffuse", "irradiance"]

LUNAR_DIRECT_IRRADIANCE: Ref: [GMET, "irradiance"]

PLANETARY_SURFACE_ATM_PRESSURE: Ref: [GMET, "surface pressure"]

PRECIPITATION_PHASE: Ref: [GMET, "phase, 2"]; Supp Ref: [AHRENS, Chapter 7]

PRESSURE_ALTITUDE: Ref: [GMET, "pressure altitude"]

WATER_VAPOUR_PRESSURE: Ref: [WMO182, V0070, "vapour pressure"]; Supp Ref: [GMET, "vapour pressure"]

WIND_OMEGA: Ref: [WMO182, O0190, "omega equation"]; Supp Ref: [GMET, "omega equation"]

Rationale: A more accurate and appropriate reference in GMET, WMO182, or other document is provided.

SEDRIS_T052: EAs CLOUD_TOP_LEVEL and CLOUD_BASE_LEVEL

Provide new amendment change instructions to correct the references and supplemental references of the following EAs:

CLOUD_TOP_LEVEL: Ref: [WMO182, C1960, "cloud top"]; Supp Ref: [GMET, "cloud top"]

CLOUD_BASE_LEVEL: Ref: [WMO182, C1500, "cloud base"]; Supp Ref: [GMET, "cloud base"]

Rationale: A more accurate and appropriate reference is provided.

SEDRIS_T053: EA MOVEMENT_INDUCED_CONTRAIL_PRODUCTION_RATE

Provide a new amendment change instruction to remove the word “other” in the definition, just before “ionization phenomena”.

Rationale: Contrails and vapour trails are not forms of ionization phenomena.

SEDRIS_T054: EAs ISOLATED and CONTROLLED

Provide a new amendment change instruction to change the definition of these two EAs to replace “<FACILITY>” with “<OBJECT>”.

Rationale: The concepts are not limited to facilities and can apply to any object (place or thing).

SEDRIS_T055: EA MEAN_WAVE_LENGTH

Provide a new amendment change instruction to change the label of this EA to “MEAN_WATER_WAVELENGTH”, and change its label text to “mean water wavelength”.

Rationale: Wavelength is one word, and the concept is strictly about water waves, therefore water is added. Label text is corrected to match the updated label (and article is dropped).

SEDRIS_T056: EA AERODROME_ELEVATION

Provide a new amendment change instruction to change the definition of this EA from:

The highest <<ELEVATION>> of the usable <RUNWAY>s of an <AERODROME>, measured from the MSL <SURFACE_DATUM>

to:

The highest <<ALTITUDE_MSL>> of the usable <RUNWAY>s of an <AERODROME>; aerodrome elevation.

Rationale: Clarifying and simplifying the concept.

SEDRIS_T057: Enumerants of EA ATM_CEILING_METHOD

Provide new amendment change instructions to correct the definitions of the following enumerants of this EA as follows:

AIRCRAFT – Replace “the altitude” with “the <<HEIGHT_AGL>>”.

BALLOON – Replace “the altitude” with “the <<HEIGHT_AGL>>”.

ESTIMATED – Replace “distance to” with “<<HEIGHT_AGL>> of”.

MEASURED – Replace “distance to” with “<<HEIGHT_AGL>> of”.

MODELLED – Replace “distance to” with “<<HEIGHT_AGL>> of”. Also, add commas before and after the phrase “using numerical methods” to make the sentence clearer; and add label text “modeled” at the end of the definition.

OBSCURATION_LIMIT – Replace “vertical distance limit” with “<<HEIGHT_AGL>> limit of”.

STATISTICALLY_DERIVED – Revise the definition to read: “By deriving, using statistical methods, the <<HEIGHT_AGL>> of the base of the lowest <CLOUD>.”

Also, provide new amendment change instructions to modify the following enumerants of this EA as follows:

AIRCRAFT – Replace the reference with [JMCDM, "SKY-CONDITION-OBSERVATION ceiling determination code", A]

CLOUD_OBSERVATION – Deprecate this EE, since the definition is ambiguous and does not make clear from where the observation is made.

Rationale: The enumerants of EA ATM_CELING_METHOD should be made consistent with how ceiling values are given as <<HEIGHT_AGL>>. Proper reference added. And incorrect enumerant removed.

SEDRIS_T058: EA BELOW_STATION_CLOUD_TOP_ALTITUDE

Provide a new amendment change instruction to change the label of this EA to “BELOW_STATION_CLOUD_TOP_LEVEL”, and accordingly change its label text to “the below station cloud top level”.

Rationale: Since this attribute is defined relative to an <<ATM_VERTICAL_REFERENCE>> and therefore can be measured with respect to an altitude, height above ground, etc., the label should be changed to use “level” not “altitude”.

SEDRIS_T059: EA HYDROLOGIC_PERMANENCE

Provide a new amendment change instruction to add the following as a new EE for this EA:

EE EPHEMERAL

Has flowing water only during, and for a short duration after, precipitation events in a typical year; ephemeral [WRC, "ephemeral stream"]. The water table is located below the bed year-round. Runoff from rainfall is the primary source of <WATER> for the <HYDROLOGIC_OBJECT>, while groundwater is not a source of <WATER>.

Rationale: Adds the missing EE for completeness.

SEDRIS_T060: EA HYDROLOGIC_PERMANENCE, EE PERENNIAL

Update the amendment change instruction for this EE to remove “[WRC]” from the definition’s last sentence and instead add “[WRC, "perennial stream"]” before the period of the definition's proposed first sentence.

Rationale: Corrects the placement of the reference information, and provides a complete reference.

SEDRIS_T061: Enumerants of EA PRESENT_WEATHER_TYPE_MANUAL

Update amendment change instructions to correct the definition of the following EEs of this EA by replacing “<SNOW_PRECIPITATION>” with “<SNOW_GROUND_COVER>”:

BLOWING_SNOW_HVY
BLOWING_SNOW_SL_OR_MOD

Rationale: These were intended to be “blowing” and/or “drifting” “snow ground cover” not “snow precipitation” and the additional correction will match them to the referenced concepts.

SEDRIS_T062: Enumerants of EA PRESENT_WEATHER_TYPE_MANUAL

Update the amendment change instructions of the following EEs to correct the definitions by adding the phrase “and no precipitation at time of observation” at the end of their definitions:

DRFT_SNOW_HVY
DRFT_SNOW_SL_OR_MOD
SL_MOD_DSSS_DEC
SL_MOD_DSSS_INC
SL_MOD_DSSS_NO_CHG

Rationale: To make the definitions correspond to that in the reference.

**SEDRIS_T063: EA PRESENT_WEATHER_TYPE_MANUAL, EE
DUST_OR_SAND_NO_PRECIP**

Update the amendment change instruction of this EE by changing “blowing spray at the <WEATHER_STATION>;” to “blowing spray and” and adding “nor at time of observation” to the end of the definition.

Rationale: To match the reference of the concept as intended.

SEDRIS_T064: Enumerants of EA PRESENT_WEATHER_TYPE_MANUAL

Update the amendment change instructions of the following EEs to add “during the past hour nor at time of observation” at the end of the definition.

DUST_OR_SAND_WHIRLS_NO_PRECIP
FUNNEL_CLD_PREV_HOUR_NO_PRECIP
LIGHTNING_VISIBLE_NO_PRECIP
PRECIP_NEAR_STATION

Rationale: To make the definitions correspond to that in the reference.

SEDRIS_T065: Enumerants of EA PRESENT_WEATHER_TYPE_MANUAL

Update the amendment change instructions of the following EEs to move “continuous” to start of the sentence and to add “at the <WEATHER_STATION>” before the comma:

HVY_DRZL_NF_CONTINUOUS
HVY_RAIN_NF_CONTINUOUS
MOD_DRZL_NF_CONTINUOUS
MOD_RAIN_NF_CONTINUOUS
SL_DRZL_NF_CONTINUOUS
SL_RAIN_NF_CONTINUOUS

Rationale: To make the definitions correspond to that in the reference.

SEDRIS_T066: Enumerants of EA PRESENT_WEATHER_TYPE_MANUAL

Update the amendment change instructions of the following EEs to move “intermittent” to start of the sentence and to add “at the <WEATHER_STATION>” before the comma:

HVY_DRZL_NF_INTERMITTENT
HVY_RAIN_NF_INTERMITTENT
MOD_DRZL_NF_INTERMITTENT
MOD_RAIN_NF_INTERMITTENT
SL_DRZL_NF_INTERMITTENT
SL_RAIN_NF_INTERMITTENT

Rationale: To make the definitions correspond to that in the reference.

SEDRIS_T067: Enumerants of EA PRESENT_WEATHER_TYPE_MANUAL

Update the amendment change instructions of the following EEs to move “continuous” to start of the sentence and to add “, not in showers, at the <WEATHER_STATION>” after “snowflakes”:

HVY_SNFLK_CONTINUOUS
MOD_SNFLK_CONTINUOUS

Rationale: To make the definitions correspond to that in the reference.

SEDRIS_T068: Enumerants of EA PRESENT_WEATHER_TYPE_MANUAL

Update the amendment change instructions of the following EEs to move “intermittent” to start of the sentence and to add “, not in showers, at the <WEATHER_STATION>” after “snowflakes”.

HVY_SNFLK_INTERMITTENT
MOD_SNFLK_INTERMITTENT

Rationale: To make the definitions correspond to that in the reference.

SEDRIS_T069: EA PRESENT_WEATHER_TYPE_MANUAL, EE HVY_THND_HAIL

Update the amendment change instruction of this EE to revise the definition to:

“A heavy <THUNDERSTORM>, with <HAIL>, is present at the time of observation.”

Rationale: To make the definitions correspond to that in the reference.

SEDRIS_T070: EA PRESENT_WEATHER_TYPE_MANUAL, EE HVY_THND_NO_HAIL

Update the amendment change instruction of this EE to revise the definition to:

“Both a heavy <THUNDERSTORM>, without <HAIL>, and <RAIN> and/or <SNOW_PRECIPITATION> are present at the time of observation.”

Rationale: To make the definitions correspond to that in the reference.

**SEDRIS_T071: EA PRESENT_WEATHER_TYPE_MANUAL, EE
MOD_HVY_SNOW_MIXED**

Update the amendment change instruction of this EE to not implement the change for replacing "Moderate or heavy <SNOW_PRECIPITATION>" with the phrase "<SNOW_PRECIPITATION>, moderate or heavy" in the change instruction. And also change the “;” in the definition to “and with a”.

Rationale: To make the definition correspond to that in the reference.

**SEDRIS_T072: EA PRESENT_WEATHER_TYPE_MANUAL, EE
SKY_UNCHANGED_NO_PRECIP**

Update the amendment change instruction of this EE by adding “nor at the time of observation, and no meteors except photometeors” at the end of definition.

Rationale: To make the definitions correspond to that in the reference.

**SEDRIS_T073: EA PRESENT_WEATHER_TYPE_MANUAL, EE
SL_MOD_THND_NO_HAIL**

Update the amendment change instruction of this EE to revise the definition to:

“A slight or moderate <THUNDERSTORM> without <HAIL> but with <RAIN> and/or <SNOW> at the time of observation.”

Rationale: To make the definition correspond to that in the reference.

**SEDRIS_T074: EA PRESENT_WEATHER_TYPE_MANUAL, EE
SL_MOD_THND_HAIL**

Update the amendment change instruction of this EE to revise the definition to:

“A slight or moderate <THUNDERSTORM> with <HAIL> at the time of observation.”

Rationale: To make the definition correspond to that in the reference.

SEDRIS_T075: EA PRESENT_WEATHER_TYPE_MANUAL, EE THND_SAND_DUST

Update the amendment change instruction of this EE by adding “A” at start of the sentence and “is present” after “sandstorm” in the definition.

Rationale: To make the definition correspond to that in the reference.

SEDRIS_T076: EA ATM_PRESSURE_CHANGE_TENDENCY_CATEGORY

Remove the change instruction for this EA for which JMCDM is being added as its supplemental reference.

Rationale: Incorrect.

SEDRIS_T077: EAs BLOWING_SAND and BLOWING_SNOW

Provide new amendment change instructions to use the following references instead:

BLOWING_SAND: [JMBL, "weatherBlowingSandFlag"]

BLOWING_SNOW: [JMBL, "weatherBlowingSnowFlag"]

Rationale: More appropriate references than those in the change instructions.

SEDRIS_T078: EE POMOMIK_CLASS of EA ASSAULT_LANDING_CRAFT_TYPE

Provide a new amendment change instruction to change the label of this EE to “POMORNIK_CLASS”.

Rationale: Label should be changed to not only match the word in the definition, but is the most common use (compared to Pomomik), and it also matches the cited reference.

SEDRIS_T079: EE HEAT_LABILE_ENTERO of EA BIOLOGIC_AGENT_TYPE

Provide a new amendment change instruction to correct the definition to correctly spell “labile” (instead of “liable”).

Rationale: Corrects misspelling.

SEDRIS_T080: EEs F_17 and F_22 of EA FIGHTER_WINGED_AIRCRAFT_TYPE

Provide new amendment change instructions to correct the definition of these EEs as follows:

Change definition of EE F_17 to include F-17 (now says F-1).

Change definition of EE F_22 to include F-22 (now says F-2).

Rationale: Corrects spelling and mismatch in definitions.

SEDRIS_T081: EEs VOIROL_1874 and VOIROL_1874_ZERO of EA GEODETIC_DATUM_IDENTIFIER

Provide new amendment change instructions to correct the definitions of these EEs to use “1874” instead of “1875”.

Rationale: Corrects typographical error in definitions.

SEDRIS_T082: Enumerants of EA TERRAIN_MORPHOLOGY_TYPE

Editors should review the enumerants of this EA to ensure all definitions are up to date and accurate.

After the review, if appropriate, provide new amendment change instructions to revise any definitions that need to be corrected/updated.

Rationale: Ensures the definitions are accurate and up to date.

SEDRIS_T083: EEs SAND_DUNES_HIGH and SAND_DUNES_LOW of EA TERRAIN_MORPHOLOGY_TYPE

Provide a new amendment change instruction to correct the definitions of these EEs by swapping their definitions.

Rationale: Corrects the swapped definitions.

SEDRIS_T084: EE ROUNDABOUT_ZONE of EA MARINE_REGION_TYPE

Provide a new amendment change instruction to add a supplemental reference as follows: [S32, "roundabout"].

Rationale: Adds a supplemental reference.

SEDRIS_T085: EEs of EAs XXXXXX_WINGED_AIRCRAFT_TYPE, where XXXXXX represents ASW, ATTACK, BOMBER, COMMERCIAL, FIGHTER, SURVEILLANCE, and TRANSPORT

Editors should review the enumerants of these EAs against the ICAO documents (such as Document 8643 *Aircraft Type Designators*), and where appropriate provide new amendment change instructions that adjust the definition of these enumerants according to the listing in the ICAO documents. Generally, it should be sufficient to provide the definition of each enumerant in the form of “Manufacturer Model”; for example, "Canadair Regional Jet CRJ-200". As an example, the existing definition for EE AIRBUS_A300_SERIES of EA COMMERCIAL_WINGED_AIRCRAFT_TYPE would change from “Airbus A-300 series twin engine jet.” to simply “Airbus A300 series.” (Also, note the removal of the dash). Also ensure the details are consistent across the enumerants of the same EA. In addition, update the references as needed to use the latest ICAO or other appropriate documents.

Rationale: Simplicity and clarity. Eliminate any other descriptions in the definitions that are not necessary, since many of those descriptions are configuration dependent and can become misleading or unnecessarily restrictive.

SEDRIS_T086: EA OCEAN_FLOOR_REGION_NAME_TYPE

Remove all amendment change instructions for this EA (both in Clause 6, Table 6.19 and in Annex C, Table C.16).

Rationale: No changes were intended to be added to the amendment.

SEDRIS_T087: EAs PEAK_TIDE_HEIGHT, PEAK_TIDE_TIME, PEAK_TIDE_TYPE

Provide new amendment instructions to revise the label and definition of these EAs to provide better consistency and clarity, as follows:

Change the label of PEAK_TIDE_HEIGHT to TIDE_EXTREMUM.

Change its definition to:

“The maximum height reached by a high <TIDE> or the minimum height reached by low <TIDE>, relative to a <SURFACE_DATUM>, for a specified <<TIME_PERIOD>>; tide extremum. The type of extremum is specified by <TIDE_EXTREMUM_TYPE>.”

Change the label of PEAK_TIDE_TIME to TIDE_EXTREMUM_TIME.

Change its definition to:

“The <<TIME_QUANTITY>> from midnight to the time at which the <<TIDE_EXTREMUM>> is reached.”

Change the label of PEAK_TIDE_TYPE to TIDE_EXTREMUM_TYPE.

Change its definition to:

“The type of extremum for a <TIDE>”

Rationale: Clarity in definitions, more appropriate wording in the definition and label to better convey the same semantics, and avoiding the potential ambiguity in uses of “maximum”, “minimum”, “rising”, “falling”, and “respectively” in the current definitions.

**SEDRIS_T088: EE WIND_PROFILER of EAs
PROFILE_MEASUREMENT_TECHNIQUE and WIND_EQUIPMENT_TYPE**

Provide new amendment change instructions to correct the definitions of these EE as follows:

“Vertical profiles of the <WIND> are measured using Doppler radars operating in the VHF-UHF band (30 MHz-3 GHz) that determine the wind by measuring the line-of-sight Doppler shift of scattered signals from refractive index fluctuations caused by turbulence.”

And use the following reference: [GMET, "wind profiler"]

Rationale: This change will correct the current definition, which is erroneous.

SEDRIS_T089: Enumerants of EA ROLLING_STOCK_TYPE

Provide new amendment change instructions (and merge with existing amendment change instructions, where appropriate) to correct the definitions and/or references of the following EEs, as well as introducing a new EE and figures as follows:

BUFFER – Replace reference with [AREMA, “Buffer Car”].

DEPRESSED_CENTRE – Replace reference with [AREMA, “Depressed Center Car”].

GONDOLA – Replace reference with [AREMA, “Gondola Car”], and replace the definition with the following: “A <<<FREIGHT>>> wagon with an open-top and four low sides which does not have the capacity to unload bulk materials through bottom of car; a gondola wagon.”

IDLER – Replace reference with [AREMA, “Idler Car”], and remove the 4th item in the definition (since it is not supported in the reference).

SCHNABEL – Replace reference with [AREMA, “Schnabel Car”].

WELL – Replace reference with [AREMA, “Well Car”].

BOLSTER – Deprecate this enumerant.

BOLSTER_CAR – Introduce this as a new EE, providing the following definition: “A railway flat car having a load bolster that provides a pivot point supporting a load designed to carry long loads and are used in pairs or triplets; bolster car.” Add appropriate figure(s) that illustrates the concept. Use [AREMA, “Bolster” and “Bolster Load”] for reference field, with reference type set to IR.

Rationale: To provide a more accessible reference, revise the reference from RICA to AREMA, and also revise the definitions of EEs BOLSTER and GONDOLA, as noted above. Add images for BOLSTER_CAR. The existing reference (RICA) cannot be accessed easily or freely. The replacement reference is accessible. Definition changes improve or more closely match the new reference. A more suitable reference for EE HEAVY_DUTY was not found.

SEDRIS_T090: EA WIND_EQUIPMENT_TYPE

Provide a new amendment change instruction to correct the definition of this EA as follows:

“The type of measuring <EQUIPMENT> used to measure <<WIND_DIRECTION>> and/or <<WIND_SPEED>>.”

Rationale: These types of equipment measure both wind direction and speed, but wind speed was missing from the definition.

SEDRIS_T091: EA WIND_EQUIPMENT_TYPE, EE RADIO_THEODOLITE

Provide a new amendment change instruction to correct the definition of this EE by changing “<BALLOON>” to “balloon”.

Rationale: Corrects a text error in the definition. The EC BALLOON is not the same as a weather balloon.

SEDRIS_T092: EA YAW_ANGLE

Editors should review the definition of this attribute to improve its text and use a better description of the concept by utilizing known concepts such as the right-hand rule for direction of rotation, and including figures to clearly illustrate the concept.

After the review, and if appropriate, provide a new change instruction to revise the definition and include a figure, such that it improves the clarity of the concepts.

Rationale: Improve the concept definition and its clarity.

SEDRIS_T093: EE DEEP of EA OCEAN_FLOOR_REGION_NAME_TYPE

Modify the change instruction to add the following sentence as the second sentence of the definition of this EE as follows:

“Historically, it was limited to depths greater than 6000m.”

Rationale: Additional clarifying information for the concept.

SEDRIS_T094: Table 6.31

Correct the amendment change instruction for Table 6.31 such that the following changes are incorporated:

Include a reference to 4.6 in the “Specification” cell of the “Characteristic value” row, as "(see 4.6)".

Include a reference to 4.5.1 in the “Specification” cell of the “EA data type applicability” row, as "(see 4.5.1)".

Rationale: Missing references need to be added.

SEDRIS_T095: (new) Table 6.31, expressing specific cases of Characteristic value

Editors need to review the use of “Not applicable (N/A)” for EVs. Clearly, there is a distinction between those EVs that must have a characteristic value in order to express their concept and those that don't require a value. However, in practice users often assign a value to those EV concepts that are not required to have a value, in order to identify them in their data. Such values can be used as sentinel values. Similarly, users may use the EV with or as a flag. EDCS does not disallow any of these. However, the use of “not applicable” in the specification of such EVs may be interpreted, as the approach is not allowed by the standard. The solution is not to replace “Not applicable (N/A)” with “Not required”, since that would imply such EVs are allowed to get values and getting a value (used as sentinels) is the only way. But this is not true either, since users can use such EVs as flags. Editors need to review this issue and determine if there is a way to express this concept (that those EVs that do not get or need a characteristic value conceptually are not prevented from having one assigned to them in specific user implementations).

After the review, and if appropriate, provide a new change instruction to update the sentences and fields related to this concept to make such uses more clear.

Rationale: Improve the concept's clarity in whether the standard allows or disallows or is simply agnostic about how an EV that does not required a characteristic value can be implemented.

SEDRIS_T096: (new) Table 6.33

Correct the error in the change instruction for Table 6.33 as follows:

Table label for element “VALID_COUNT” should be “VALUE_COUNT”.

Rationale: Copy and paste error in the label.

Clause 7: EDCS units

SEDRIS_T097: Correction related to non-SI units – affects multiple sub-clauses

In addition to several places in Clause 7, text in Clause 4 and Annex A also need to be updated. The following changes are provided in the order the concept appears in various clauses, starting with Clause 4 first.

Provide new amendment change instructions to correct/add the following:

Replace the last paragraph of 4.8 as follows (properly hyperlinking Tables 7.5, 7.6, 7.7, 7.8 and A.6):

“The EDCS Unit Dictionary is presented in four tables: two tables of EUs derived from SI (see Table 7.5 and Table 7.6), one table of EUs outside the scope of SI (see Table 7.7), and one table of non-SI EUs in common usage (see Table 7.8). Any deprecated EUs will be placed in a table in A.6 Deprecated EUs. Within each table, the EUs are ordered alphabetically by the EUL.”

In sub-clause 7.2, apply the following changes in addition to the current amendment change instruction for sub-clause 7.2:

In 1st paragraph of 7.2 replace the 1st occurrence of Table 7.7 with Table 7.8 (in the first sentence only).

Add the following phrase to end of 3rd sentence of 1st paragraph: “and Table 7.8”

In last paragraph of 7.2 replace the “Table 7.7” with “Table 7.8”.

Insert the following as a new paragraph just before Table 7.4:

“Table 7.8 specifies units that are in common usage but are not SI units. The use of these units is discouraged but are provided for compatibility with existing measures.”

Replace row four in Table 7.4 of the standard, or more specifically update the change instructions for Table 7.4 of the amendment instructions by adding a new row four, as follows: “Table 7.8 - Non-SI EUs in common use”

Add a new Table 7.8 by bringing in the deprecated EUs in Annex A (and removing them from Annex A). This supersedes and replaces the amendment change instructions that move content of Table A.6 into Table 7.7.

Renumber the remaining tables in Clause 7 accordingly (to accommodate the adding of new Table 7.8).

Update the amendment change instruction for Table 7.2 (Table of tables) to accommodate the addition of the new Table 7.8 accordingly.

Rationale: Improved language and clarity for treatment of units that are not in the scope of SI but are in common usage. These improvements reverse and/or update some amendment change instructions.

Clause 8: EDCS organizational schema

SEDRIS_T098: Table 8.6

The classification and attribute links for HYDROGRAPHIC_INDUSTRY use a file name that ends in "..._FY_I.html". The "F" should have been "H".

Editors need to review whether a correction to the file name to retain consistency can be implemented without requiring significant other changes in any other part of the standard that references this file (such as changes that may be required in tables 8.7 and 8.63).

Then, if warranted, provide a new amendment change instruction to correct the file name (and all affected parts of the standard) in a future revision of the standard.

Rationale: Corrects and inconsistency in the file name.

Clause 10: Registration

SEDRIS_T099: Title of Clause 10

Currently, title of this clause is specific to “registration” proposals. However, the clause contains text and sub-clause titles that address change and deprecation proposals. Editors should review the content of the clause in contrast to its title.

After review, and if appropriate, provide an amendment change instruction to revise the clause title to reflect its updated content.

Rationale: Match the title with clause content.

SEDRIS_T100: 10.2, f

Provide a new amendment change instruction to change EXAMPLE 2 as follows (implementing appropriate hyperlinks, as needed):

EXAMPLE 2 EC WATER is used as a noun in the concept definition of EC ICE: ‘Frozen <WATER>; ice [SOED, “ice”, 1.a].’ while the word “water” is used as an adjective in the concept definition of EA WATER_VAPOUR_PRESSURE: “The partial pressure of water vapour in an <ATMOSPHERE>.”

Rationale: Use definitions that are both based on existing EDCS concept entries.

SEDRIS_T101: 10.2, i

Provide a new amendment change instruction to change EXAMPLE 4 as follows (implementing appropriate hyperlinks, as needed):

EXAMPLE 4 The concept definition for EE INERT_TERRAIN_MATERIAL is:

“Inert <MATERIAL>s composing the <TERRAIN>.

EXAMPLES <SAND>, <SOIL>, gravel, <SNOW_GROUND_COVER>.”

Rationale: Use an existing EDCS concept entry. (Note the use of new-line in the example for a definition)

SEDRIS_T102: 10.2, j

Provide a new amendment change instruction to change EXAMPLE 5 as follows (implementing appropriate hyperlinks, as needed):

EXAMPLE 5 If the sub-concept “inert terrain material” appears within a concept definition, it may be followed by exemplars in the form “(for example: <SAND>, <SOIL>, gravel, and/or <SNOW_GROUND_COVER>)”.

Rationale: Corrected text for other concepts; also replacing the text “might be”.

SEDRIS_T103: 10.2, l

Provide a new amendment change instruction to change EXAMPLE 6 as follows (implementing appropriate hyperlinks, as needed):

EXAMPLE 6 “A <SET> of one or more <AERIAL_CABLE>s”.

Rationale: Use an existing EDCS concept entry.

SEDRIS_T104: 10.2, guidelines n and o (in the amended standard) or guidelines o and p (in the standard)

Provide a new amendment change instruction to change guidelines n and o (in the amended document) (which are guidelines o and p in the standard) from:

“n (old o). Abbreviated terms shall be used only if they are defined in Table 3.3.

o (old p). If an abbreviated term is defined in Table 3.3, it shall be used wherever the phrase would have appeared. That is, the phrase shall not be used except in Table 3.3; wherever the phrase might have appeared, the abbreviated term shall be used instead.”

to:

“n (old o). Abbreviations shall be used only if they are defined in Table 3.3 or have been registered. If an abbreviation is not in Table 3.3 or has not been registered, it may be registered in conjunction with the new definition (see 10.14)

o (old p). If an abbreviation is defined in Table 3.3 or has been registered, it shall be used wherever the phrase would have appeared. That is, the phrase shall not be used except in Table

3.3 or as listed in the register; wherever the phrase might have appeared, the abbreviation shall be used instead.”

Then add a new guideline between above items n and o (in the amended document) as follows:

“A phrase that exists in this International Standard and has not been abbreviated in Table 3.3 shall not be registered as an abbreviation.”

Rationale: Clarifying the guidelines and the conditions for the use and listing of abbreviations, removing potentially conflicting terminology between current guidelines, and adding a new guideline to prevent the standard from violating its own guidelines when terms that are already used in the standard are registered as abbreviations.

SSEDRIS_T105: 10.2, ab (new aa)

It needs to be made clear that dictionaries other than SOED can be used, when needed, but otherwise, the words in a definition mean as they would in SOED. To correct this, the 2nd sentence can be updated and the word “only” can be removed from the 1st sentence. This avoids restricting the use of any dictionary except SOED.

Provide a new amendment change instruction to replace the 2nd sentence with the following and to remove the word “only” from the 1st sentence:

“Specialized dictionaries may be used to determine the meaning of technical terms. Such dictionaries shall be explicitly cited.”

Rationale: Clarifies how dictionaries other than SOED are used.

SEDRIS_T106: 10.3, 3rd item f, and (new/amended document) 10.14, c, and (new/amended document) 10.15, item d

Provide a new amendment change instruction to replace “acronym” with “abbreviation” in EXAMPLE 2 of 10.3, f (3rd list).

And update the amendment change instruction for EXAMPLE 1 of 10.14 and EXAMPLE 2 of 10.15, similarly, by replacing “acronym” with “abbreviation” in both examples.

The instances that need to be corrected are identical to the following (adjust the example number accordingly):

EXAMPLE 2 The abbreviation LOST should not be used for the phrase “Line of Sight Type”.

Rationale: Abbreviation is the proper term.

SEDRIS_T107: Throughout 10.5

The titles of the sub-clauses in 10.5 imply that supplemental references, figures, etc. cannot be registered for entries already in the standard.

Provide a new amendment instruction to remove the phrase “for registered items” from the titles of those items that can be registered for entries already in the standard.

Rationale: Incorrect and misleading titles need to be corrected.

SSEDRIS_T108: 10.5.1, 2nd paragraph

Provide a new amendment change instruction to move the “EV” from the 2nd sentence to 1st sentence.

Rationale: EV references are now in an Annex.

SEDRIS_T109: 10.5.2, 10.5.3, 10.5.4, and 10.5.5

Provide a new amendment instruction to remove the phrase “proposed registered” in these sub-clauses. Also, change the sentences such that the word “proposed” appears earlier in the sentences. For example, “The” in 3rd sentence of 10.5.2 and 2nd sentence of 10.5.3 can become “Proposed”. Similarly, update the entire section to remove phrases such as “proposed registered” from the list items.

Rationale: Remove poor phrasing and incorrect terminology. The phrase “proposed registered” is contradictory! An item is either proposed or registered. Many of the instances that use such phrasing can be easily revised or corrected. In some cases, “proposed for registration” may be appropriate. In other cases, the phrase may not be needed, or can be simplified to “proposed”.

SEDRIS_T110: 10.5.2, e.2

Provide a new amendment change instruction to change EXAMPLE 4 as follows (implementing appropriate hyperlinks, as needed):

EXAMPLE 4 Since the concept <ATTIC> is defined to be identical to the SOED <word-or-term> “attic” with <definition-number> “B.2”, the citation is ‘[SOED, “attic”, B.2].’

Rationale: Clarity of example’s text.

SEDRIS_T111: 10.5.4, c

Provide a new amendment instruction to remove the phrase “engineering and/or science”.

Rationale: Commonly understood concepts are not unique to those fields.

SEDRIS_T112: 10.5.4, h

Provide a new amendment instruction to remove “for each”.

Rationale: Can have only one reference in the reference field.

SEDRIS_T113: 10.5.4, j

Currently, this guideline states new references “may be specified”. This is correct when registering a new concept. But when a reference by itself needs to be registered (for an existing

item), the guideline becomes too restrictive. In addition, new references may have already been added to the registry, and therefore those should be taken into account.

Provide a new amendment instruction that inserts the following new list item after item j:

“k. It may be determined that a new or replacement primary reference is needed for an existing or a registered item. This can occur under one of the following conditions:

1. The reference field is blank and an authoritative reference that covers the concept is identified.
2. A reference is identified that is more authoritative than the existing reference and suitably covers the concept.
3. The current primary reference becomes unavailable and a new primary reference is needed.
4. The current primary reference becomes obsolete and a new version is available to replace the obsolete version. (This only applies if the reference citation contains a version identifier.)

In these cases, a new reference for an existing or a registered item may be registered. The reference type shall follow the guidelines for reference type (10.5.3).”

Rationale: Clarifies how references for existing or registered items can be updated/registered.

SEDRIS_T114: (new) 10.5.6 Guidelines for registration of figures for registered items

Currently, this title is structured differently than the other titles in 10.5. The phrase “registration of” does not appear in other titles. However, if the phrase “registered items” was removed, the title would remain correct (in fact, more accurate than current title), and it can also serve as a template for other titles in this clause to be updated (see other comment for titles throughout 10.5).

Update the amendment change instructions to correct the titles of 10.5, by using a template such as: “Guidelines for registration and/or clarification of xxxxx”, or provide a more accurate and consistent title for each section.

Rationale: Incorporate correct and appropriate titles.

SEDRIS_T115: 10.7 and remainder of Clause 10

The use of the phrase “Concepts in xxxxx dictionary shall be registered” is misleading. A concept in a dictionary is already in that dictionary and does not need to be registered! Editors should consider changing these phrases to “Concepts for xxxxx dictionary shall be registered”. After a review of this issue, if appropriate, provide a new amendment instruction to correct this phrasing throughout Clause 10.

Rationale: Appropriate phrasing is required to convey the intended meaning.

SEDRIS_T116: (new/amended document) 10.14, 1st sentence

Update the amendment change instructions to change the first sentence from:

“Abbreviated terms to be used in definitions shall be registered according to the following guidelines:”

to:

“Phrases to be used in definitions in the form of an abbreviation shall be registered according to the following guidelines:”

Rationale: Make clear that abbreviations are being registered for phrases (abbreviated terms). (Applies to amendment change instructions)

SEDRIS_T117: (new/amended document) 10.14, EXAMPLE

Update the amendment change instructions to replace “EXAMPLE 1” with “EXAMPLE”.

Rationale: There is only one example. (Applies to amendment change instructions)

Clause 11: Conformance

SEDRIS_T118: 11.2.3

Editors should review this sub-clause and determine if any other cases in which EDCS may be used warrants addition of text in the specification. For example, since the standard was published, EDCS is used in independent (non-SEDRIS DRM) data models. This case is not covered by the types of profiles listed in 11.2.3.1, for which conformance considerations need to be taken into account. Similarly, EDCS is used in applications which themselves are not used to generate exchange formats. At the time the standard was originally written, neither of these cases was considered in 11.2.3.

After a review of this issue, and if appropriate, provide new amendment instructions to revise and update 11.2.3 to cover the above uses of EDCS. Also, revise 11.2.3 such that the sub-sections within 11.2.3 appear in the same order as in the Introduction (11.2.3.1)

Rationale: EDCS is being used beyond those conformance cases currently listed in the standard. Also the order of appearance of topics within 11.2.3 is inconsistent with the introduction of those topics.

SEDRIS_T119: 11.2.3.2, 2nd sentence

Provide a new amendment instruction to change the phrase “EDCS exchange format” to “exchange format using EDCS and”.

Rationale: EDCS itself is not an exchange format.

SEDRIS_T120: 11.2.3.4, 2nd sentence

Provide a new amendment instruction to change the sentence from “An EDCS reader conforming to profile P shall:” to “An application reading an exchange format that uses profile P shall:”.

Rationale: An EDCS reader has never been defined

SEDRIS_T121: Title for 11.3.1

Provide a new amendment change instruction to change the title to: “Minimum requirements for conformance of use of EDCS dictionary entries”

Rationale: Current title (“Minimum requirements for EDCS label, EDCS code and representation of EDCS attribute value conformance”) is too long and unwieldy. New title covers the main topics in this sub-clause.

Annex A: Deprecated EDCS dictionary entries**SEDRIS_T122: Include the missing sub-clauses**

Provide new amendment change instructions to add the missing sub-clauses to Annex A that should be there for such deprecated items as references, abbreviations, abbreviations used in labels, figures, etc. Accordingly, update the title of Annex A appropriately to reflect the broader scope of Annex A beyond “dictionary entries”.

Rationale: Missing sections need to be added for non-dictionary entries that can be deprecated.

Annex C: Groups and references for EDCS attributes**SEDRIS_T123: EA AIR_SOUND_SPEED**

Remove the amendment change instruction for the references of this EA.

Rationale: The EA is a registered item. The amendment change instruction is not needed.

Annex D: References for EDCS attribute enumerants**SEDRIS_T124: EEs WHIP, PARABOLIC, HORN, FIXED_PHASED_ARRAY of EA AERIAL_TYPE**

Revise the amendment change instructions for these EEs (not only in Annex D, but also in Table 6.36 of Clause 6) to avoid using ISO/IEC TR 18053, and instead determine and then incorporate the appropriate way to use the more relevant reference, ATIS.

Rationale: ISO/IEC TR 18053 is not the correct reference for these concepts; ATIS is.

SEDRIS_T125: EE MICROLIGHT of EA AERODROME_TYPE

Retract the two amendment change instructions that change the reference, reference type, and supplemental reference. Instead retain the existing reference (to FACC) as an IR, and add a supplemental reference as follows: [S57A, Attribute, CATAIR:6].

Rationale: Original reference and reference type were correct. Adds the reference used in the change instruction as a supplemental reference.

SEDRIS_T126: Enumerants of EAs BELOW_STATION_CLOUD_COVERAGE and TOTAL_CLOUD_COVER_CATEGORY

For the three enumerants BROKEN, FEW, and SCATTERED of each of the two EAs, replace the main reference cited in the respective amendment change instructions for the EE of each EA with “[WMO306, Volume I.1, Part A, 15.9.1.1]”; a total of six replacements.

Provide a new amendment instruction to add a supplemental reference for the EE SCATTERED of EA TOTAL_CLOUD_COVER_CATEGORY as follows: [WMO306, Volume I.2, Part B, Code table 0-20-011:11]

Rationale: Replaces the incorrect FMH1 or WMO306 references with a more accurate reference. Adds a missing supplemental reference.

SEDRIS_T127: EEs MISSING_BUT_EXPECTED, NO_OBSERVATION, and NO_SIGNIF_PHENOMENON of EA PRESENT_WEATHER_TYPE_SPECIAL

Remove the amendment change instruction for the references of these EEs.

Also, remove the existing references for these EEs in the standard.

Rationale: The amendment change instructions for these are incorrect, since Table 4687 in WMO 306 does not include these. Also, the current reference for these in the standard is incorrect. These concepts are clear and don't require a reference.

SEDRIS_T128: Missing amendment change instructions

The amendment change instructions for the following EEs are missing in the amendment:

EA FARMING_METHOD - EE GRAZING

Add IR reference [FACC, Annex B, FTC:5].

EA FARMING_METHOD - EE PERMACULTURE

Add IR reference [FACC, Annex B, FTC:2].

EA FARMING_METHOD - EE SLASH_AND_BURN

Add IR reference [FACC, Annex B, FTC:1].

EA MARINE_REGION_TYPE - EE INSHORE_TRAFFIC_ZONE

Add supplemental reference [FACC, Annex B, MAC:41].

EA BEAUFORT_WIND_SCALE - EE CALM, reference

Change '[WMO306, Vol 1.1, Part A, Section E, "calm"]' to '[WMO306, Volume I.1, Part A, Section E, "calm"]'.

EA CHARGED_PARTICLE_SPECIES - EE ALPHA, reference
Change '[DES]' to '[DES, "alpha particle"]'.

EA EM_BAND - EE P
Remove reference and reference type. Add supplemental reference '[APDS, "P band"]'.

EA FARMING_METHOD - EE CROP_ROTATION, reference
Change to '[FACC, Annex B, FTC:8]'.

EA GEODETIC_DATUM_IDENTIFIER - EE HONG_KONG_1963, supplemental reference
Change '[HELM]' to '[HELM, "HTN"]'.

EA HIGH_CLOUD_TYPE_OBSERVED - EE CIRROCUMULUS, reference
Change "[WMO407, Section II.8.2.3.10]" to "[WMO306, Volume I.1, Part A, Code table 0509:9]".

EA HIGH_CLOUD_TYPE_OBSERVED - EE CIRROCUMULUS
Add supplemental reference "[WMO407, Section II.8.2.3.10]".

EA ICING_TYPE - EE CLEAR_ICE, reference
Change '[GMET]' to '[GMET, "clear ice"]'.

EA LOW_CLOUD_TYPE_OBSERVED - EE CMNIMB_CALVUS, reference
Change '[WMO407, Section II.8.2.1.4]' to '[WMO306, Volume I.1, Part A, Code table 0513:3]'.

EA LOW_CLOUD_TYPE_OBSERVED - EE CMNIMB_CALVUS
Add supplemental reference '[WMO407, Section II.8.2.1.4]'.

EA MARINE_REGION_TYPE - EE ANCHORING_FISHING_PRHBT
Change reference '[FACC, Annex B, MAC:113]' to '[S57A, Attribute, RESTRN:1 and 3]'.
Add supplemental reference '[FACC, Annex B, MAC:113]'.

EA NAUTICAL_GATE_TYPE - EE CAISSON
Remove reference and reference type. Add supplemental reference '[S57A, Attribute, CATGAT:3]'.

EA PEAK_TIDE_TYPE - EE HIGH
Remove reference and reference type. Add supplemental reference '[GMET, "high water"]'.

EA RAPID_CLASS - EE I, reference
Change '[SCAW]' to '[SCAW, VI, "Class I Rapids"]'.

EA SEA_STATE_CATEGORY - EE CALM_GLASSY, reference
Change '[WMO306, Part 1, Code table 3700]' to '[WMO306, Volume I.1, Part A, Code table 3700:0]'.

EA TERRAIN_OBSTACLE_TYPE - EE ANTI_TANK_DITCH

Remove reference and reference type. Add supplemental reference '[APDS, "antitank ditch", 2]'.
Change '[DES]' to '[DES, "brackish water"]'.

EA WATER_TYPE - EE BRACKISH, reference

Change '[DES]' to '[DES, "brackish water"]'.

Rationale: Addition of missing amendment change instructions.

Annex G: Abbreviations used in construction of labels

SEDRIS_T129: Annex G, Table G.5

Provide new amendment change instructions to add the following two items to Table G.5:

international great lakes datum - IGLD
higher – HGHR

Rationale: Provide the missing abbreviations used in EE IGLD_1985 of EA SOUNDING_DATUM_TYPE and in EEs HGHR_HIGH_LARGE_TIDE, HGHR_HIGH_WATER, and MEAN_HGHR_HIGH_WATER of EA SOUNDING_DATUM_TYPE.

Annex I: Templates for registration proposals

SEDRIS_T130: Title of Annex I

Provide a new amendment change instruction to revise the title of this annex to “Templates for registration and clarification of items”.

Rationale: Title becomes consistent with the content of the annex and reflects the main topics covered by the annex (both registration and clarification).

SEDRIS_T131: Throughout the tables

Provide a new amendment instruction to change the field element names in Annex I tables from “Justification for inclusion” to simply “Justification”.

Rationale: Not all justification are for including something.

SEDRIS_T132: I.1.2

Provide a new amendment change instruction to revise the sentence in I.1.2 as follows: “This annex contains a set of blank forms that may be used to create proposals for registration and clarification of items as specified in Clause 10.” Also, retain the hyperlink for Clause 10.”

Rationale: Consistent with the content and changes to the annex for registration and clarification.

SEDRIS_T133: I.10

Update the amendment change instruction to add a new row/field in the form I.10 immediately following the field “Justification for inclusion:” as follows: “Additional comment(s):”

Rationale: All other Annex I forms/templates include an additional comment field. I.10 was missing this field. (Applies to amendment change instructions)

SEDRIS_T134: I.10

Update the amendment change instruction to change the “Reference:” field name to: “Reference (bibliographic citation):”

Rationale: Clarifies that unlike other uses of the term “reference”, which are used as the identifier or pointer for a citation, what is required for this form is the actual bibliographic citation. (Applies to amendment change instructions)

SEDRIS_T135: (new/amended document) I.11

Update the amendment change instructions to reorder the form I.11 fields as follows:

“Date of proposal:
Sponsoring authority:
Purpose:
Existing figure identifier, if applicable:
Justification for inclusion:
Additional comment(s):”

Rationale: All other Annex I forms/templates follow a similar field order. I.11 needs to be adjusted to match. (Applies to amendment change instructions)

SEDRIS_T136: (new/amended document) I.11

Update the amendment change instruction to add the following to I.11:

“Figure captions shall not be embedded as part of the figure. The figure caption will be assigned by the registration authority. Information about the figure shall be provided in the Narrative field.”

Rationale: Clarifies what users of this form are expected to provide.

Bibliography**SEDRIS_T137: Reference identified as PES**

Provide a new amendment change instruction to change the ISBN number for the reference identified by PES to its 13-digit version as 9780890065082.

Rationale: Use of a latest ISBN number.

SEDRIS_T138: Reference identified as HOLMAN

Provide a new amendment change instruction to revise the reference identified by HOLMAN to its latest version, as follows:

Holman, Jack P. *Heat Transfer*. 10th ed. New York: McGraw-Hill, 2009. ISBN 9780071267694.

Rationale: Use the latest edition.

SEDRIS_T139: Citation for ISO 8601:2000

Provide a new amendment change instruction to cite the latest version of ISO 8601.

Accordingly, provide the necessary amendment change instructions that ensure any EDCS entry that uses this reference is also updated to cite the updated reference and calls out the appropriate sections of the new reference.

Rationale: The newer versions of 8601 explain the various formats that EDCS needs to reference, but moved them to different portions of the reference, so updating the citations to a more current version makes it easier for a user to find which format is being cited.

SEDRIS_T140: ISO/IEC TR 18053

Update the amendment change instruction to replace the entry for ISO/IEC TR 18053 with ANSI ATIS Telecom Glossary 2007 using the following reference:

ATIS
Alliance for Telecommunications Industry Solutions (ATIS). *ATIS Telecom Glossary 2007* [online]. Washington: ATIS, 2007 [cited 2 June 2011]. Available from World Wide Web <http://www.atis.org/glossary>. ATIS-0100523.2007.

Rationale: More relevant reference.

SEDRIS_T141: Entries for AF15111, KUNDUFM, NAVMS, and OAML

The amendment change instructions for these items are incorrect. Revise the change instructions to correct the following errors:

AF15111: The change instruction text points to the updated URL, but the updated URL is not visible in the citation text! Instead, the old/incorrect URL appears in the text.

KUNDUFM: This identifier is not found in the standard. Therefore, the change instruction should be removed.

NAVMS: The "to" portion of the change instruction is incorrect. Actual hyperlink and the text over the hyperlink should be identical, but they are not.

OAML: In the change instruction, neither hyperlink (before, nor after) should be surrounded by angle brackets.

Rationale: Incorrect change instructions that need to be corrected.

SEDRIS_T142: Incorrect entries in the Bibliography

Remove the amendment change instructions for the references identified by the following identifiers:

COA, IPC, JMV, PLKEMMM, VDARCH, and YIH.

Rationale: These are references for registered items and will be included in the amendment at the final stage

SEDRIS_T143: Add a new bibliography entry

Provide a new amendment change instruction to add the following reference:

AHRENS

Ahrens, C. Donald. *Meteorology Today: An Introduction to Weather, Climate, and the Environment*. 9th ed. Pacific Grove (California): Brooks/Cole, 2008. ISBN 9780495555735.

Rationale: New reference added for a concept that uses this reference.

SEDRIS_T144: Add a new bibliography entry

Provide a new amendment change instruction to add the following reference:

AREMA

American Railway Engineering and Maintenance-of-Way Association (AREMA). *Manual for Railway Engineering, Volume 4: Systems Management, Chapter 28: Clearances - Glossary*. Lanham (Maryland): AREMA, 2000.

Rationale: New citation added for a more accessible reference for existing concepts.

SEDRIS_T145: Add two new bibliography entries

Provide a new amendment change instruction to add the following references:

IAUB5:

International Astronomical Union (IAU). *Definition of a Planet in the Solar System* [online]. Prague: IAU, 2006 [cited 21 March 2011]. Available from World Wide Web: http://www.iau.org/static/resolutions/Resolution_GA26-5-6.pdf; IAU Resolution B5.

IAUB6:

International Astronomical Union (IAU). *Pluto* [online]. Prague: IAU, 2006 [cited 21 March 2011]. Available from World Wide Web: <http://www.iau.org/static/resolutions/Resolution_GA26-5-6.pdf>. IAU Resolution B6.

Rationale: New reference added for concepts related to solar and star system that use these references.