

## Annex J (normative)

### Deprecated SRM concept instances

#### J.1 Introduction

This annex contains tables defining those SRM concept instances whose use is deprecated as defined in [Annex G](#). Users are strongly cautioned that deprecated concept instances are expected to be removed in a future version of this International Standard.

#### J.2 RDs

This sub-annex presents the specifications of deprecated RDs. The contents of these specification elements are defined in [Table 7.9](#). [Table J.1](#) is a directory of these RDs organized by type of ellipsoid. The RD entries in each table are grouped by celestial object type and then ordered alphabetically by their label.

**Table J.1 — Deprecated RD specification directory**

Deprecated RD specification table	Table
Deprecated oblate ellipsoid RDs	<a href="#">Table J.2</a>
Deprecated sphere RDs	<a href="#">Table J.3</a>
Deprecated prolate ellipsoid RDs	<a href="#">Table J.4</a>
Deprecated tri-axial ellipsoid RDs	<a href="#">Table J.5</a>

Table J.2 — Deprecated oblate ellipsoid RDs

RD label	RD code	Description	Parameters			Date	References	Notes
			Major semi-axis, <i>a</i>	Flattening, <i>f</i>	Error estimate			
Object type: Earth								
WGS_1960	143	World Geodetic System 1960	6 378 165	1/298,3	Assumed precise	1960	[ <a href="#">DIGEST</a> , Table 6.1, "WS"]	Superseded by <a href="#">WGS 1972</a> and <a href="#">WGS 1984</a> , based on more recent information contained in <a href="#">83502T</a> .
WGS_1966	144	World Geodetic System 1966	6 378 145	1/298,25	Unknown	1966	[ <a href="#">DIGEST</a> , Table 6.1, "WC"]	Superseded by <a href="#">WGS 1972</a> and <a href="#">WGS 1984</a> , based on more recent information contained in <a href="#">83502T</a> .
Object type: Planet (non-Earth)								
Object type: Satellite								
Object type: Star								

Table J.3 — Deprecated sphere RDs

RD label	RD code	Description	Parameters		Date	References	Notes
			Radius, <i>r</i>	Error estimate			
Object type: Earth							
Object type: Planet (non-Earth)							
EROS_2000	54	Eros (asteroid 433, a minor planet)	7 311	As specified accompanying the parameter value	2000	[RIIC, Table VI, "Eros"]	Superseded by EROS 2006, based on more accurate information contained in the updated version of the reference, RIIC06.

Object type: Satellite							
<b>CHARON_1991</b>	32	Charon (satellite of Pluto)	593 000	As specified accompanying the parameter value	1991	[RIIC, Table V, "Charon"]	Superseded by <a href="#">CHARON_2006</a> , based on more accurate information contained in the updated version of the reference, <a href="#">RIIC06</a> .
<b>DIONE_1982</b>	50	Dione (satellite of Saturn)	560 000	As specified accompanying the parameter value	1982	[RIIC, Table V, "Dione"]	Superseded by <a href="#">DIONE_2006</a> , based on more accurate information contained in the updated version of the reference, <a href="#">RIIC06</a> .
<b>IAPETUS_1988</b>	75	Iapetus (satellite of Saturn)	718 000	As specified accompanying the parameter value	1988	[RIIC, Table V, "Iapetus"]	Superseded by <a href="#">IAPETUS_2006</a> , based on more accurate information contained in the updated version of the reference, <a href="#">RIIC06</a> .
<b>RHEA_1988</b>	121	Rhea (satellite of Saturn)	764 000	As specified accompanying the parameter value	1988	[RIIC, Table V, "Rhea"]	Superseded by <a href="#">RHEA_2006</a> , based on more accurate information contained in the updated version of the reference, <a href="#">RIIC06</a> .
Object type: Sun							

Table J.4 — Deprecated prolate ellipsoid RDs

In this International Standard, no prolate ellipsoid RDs are deprecated, therefore the table is empty.

Table J.5 — Deprecated tri-axial ellipsoid RDs

RD label	RD code	Description	Parameters				Date	References	Notes
			Semi-axis, <i>a</i>	Semi-axis, <i>b</i>	Semi-axis, <i>c</i>	Error estimate			
Object type: Earth									
Object type: Planet (non-Earth)									
KLEOPATRA_2000	83	Kleopatra (asteroid 216, a minor planet)	108 500	47 000	40 500	As specified accompanying the parameter value	2000	[RIIC, Table VI, "Kleopatra"]	Reclassified and removed from the updated version of the reference, RIIC06.

Object type: Satellite									
<b>ENCELADUS_1994</b>	52	Enceladus (satellite of Saturn)	256 300	247 300	244 600	As specified accompanying the parameter value	1994	[RIIC, Table V, "Enceladus"]	Superseded by <a href="#">ENCELADUS 2006</a> , based on more accurate information contained in the updated version of the reference, <a href="#">RIIC06</a> .
<b>MIMAS_1994</b>	94	Mimas (satellite of Saturn)	209 100	196 200	191 400	As specified accompanying the parameter value	1994	[RIIC, Table V, "Mimas"]	Superseded by <a href="#">MIMAS 2006</a> , based on more accurate information contained in the updated version of the reference, <a href="#">RIIC06</a> .
<b>PHOEBE_1988</b>	114	Phoebe (satellite of Saturn)	115 000	110 000	105 000	As specified accompanying the parameter value	1988	[RIIC, Table V, "Phoebe"]	Superseded by <a href="#">PHOEBE 2006</a> , based on more accurate information contained in the updated version of the reference, <a href="#">RIIC06</a> .
<b>TETHYS_1991</b>	131	Tethys (satellite of Saturn)	535 600	528 200	525 800	As specified accompanying the parameter value	1991	[RIIC, Table V, "Tethys"]	Superseded by <a href="#">TETHYS 2006</a> , based on more accurate information contained in the updated version of the reference, <a href="#">RIIC06</a> .
Object type: Sun									

### J.3 ORMs

This sub-annex presents the specifications of deprecated ORMs. The contents of these specification elements are defined in [Table 7.15](#). [Table J.6](#) is a directory of these ORMs organized by both whether they are object-fixed or dynamic, and by type of object. The ORM entries in each table are grouped by celestial object type and then ordered alphabetically by their label.

**Table J.6 — Deprecated ORM specification directory**

Deprecated ORM specification table	Table
Deprecated abstract object ORMs	<a href="#">Table J.7</a>
Deprecated object-fixed ERMs	<a href="#">Table J.8</a>
Deprecated dynamic ERMs	<a href="#">Table J.9</a>
Deprecated time-fixed instances of dynamic ERMs	<a href="#">Table J.10</a>
Deprecated object-fixed planet (non-Earth) ORMs	<a href="#">Table J.11</a>
Deprecated dynamic planet (non-Earth) ORMs	<a href="#">Table J.12</a>
Deprecated time-fixed instances of dynamic planet (non-Earth) ORMs	<a href="#">Table J.13</a>
Deprecated object-fixed satellite ORMs	<a href="#">Table J.14</a>
Deprecated dynamic satellite ORMs	<a href="#">Table J.15</a>
Deprecated time-fixed instances of dynamic satellite ORMs	<a href="#">Table J.16</a>
Deprecated object-fixed stellar ORMs	<a href="#">Table J.17</a>
Deprecated stellar ORMs	<a href="#">Table J.18</a>
Deprecated time-fixed instances of dynamic stellar ORMs	<a href="#">Table J.19</a>

**Table J.7 — Deprecated abstract object ORMs**

In this International Standard, no abstract object ORMs are deprecated, therefore the table is empty.

**Table J.8 — Deprecated object-fixed ERMs**

In this International Standard, no object-fixed ERMs are deprecated, therefore the table is empty.

**Table J.9 — Deprecated dynamic ERMs**

In this International Standard, no dynamic ERMs are deprecated, therefore the table is empty.

**Table J.10 — Deprecated time-fixed instances of dynamic ERMs**

In this International Standard, no time-fixed instances of dynamic ERMs are deprecated, therefore the table is empty.

**Table J.11 — Deprecated object-fixed planet (non-Earth) ORMs**

In this International Standard, no object-fixed planet (non-Earth) ORMs are deprecated, therefore the table is empty.

**Table J.12 — Deprecated dynamic planet (non-Earth) ORMs**

In this International Standard, no dynamic planet (non-Earth) ORMs are deprecated, therefore the table is empty.

**Table J.13 — Deprecated time-fixed instances of dynamic planet (non-Earth) ORMs**

In this International Standard, no time-fixed instances of dynamic planet (non-Earth) ORMs are deprecated, therefore the table is empty.

**Table J.14 — Deprecated object-fixed satellite ORMs**

In this International Standard, no object-fixed satellite ORMs are deprecated, therefore the table is empty.

**Table J.15 — Deprecated dynamic satellite ORMs**

In this International Standard, no dynamic satellite ORMs are deprecated, therefore the table is empty.

**Table J.16 — Deprecated time-fixed instances of dynamic satellite ORMs**

In this International Standard, no time-fixed instances of dynamic satellite ORMs are deprecated, therefore the table is empty.

**Table J.17 — Deprecated object-fixed stellar ORMs**

In this International Standard, no object-fixed stellar ORMs are deprecated, therefore the table is empty.

**Table J.18 — Deprecated dynamic stellar ORMs**

In this International Standard, no dynamic stellar ORMs are deprecated, therefore the table is empty.

**Table J.19 — Deprecated time-fixed instances of dynamic stellar ORMs**

In this International Standard, no time-fixed instances of dynamic stellar ORMs are deprecated, therefore the table is empty.

## J.4 DSSs

This sub-annex presents the specifications of deprecated DSSs. The contents of these specification elements are defined in [Table 9.1](#). The DSS entries in [Table J.20](#) are grouped by celestial object type and then ordered alphabetically by their label.

**Table J.20 — Deprecated DSSs**

Object type: Earth	
<b>Description</b>	National Geodetic Vertical Datum (NGVD) 1929
<b>DSS label</b>	NGVD_1929
<b>DSS code</b>	6
<b>Description</b>	<a href="#">N AM 1927</a>
<b>Global/local</b>	Local
<b>Notes</b>	1) A fixed reference for elevations derived from a general adjustment in

	<p>1929 of the first-order leveling nets of both the United States and Canada. In the adjustment, mean sea level was held fixed as observed at 21 tide stations in the United States and 5 in Canada.</p> <p>2) Superseded by <a href="#">NAVD_1988</a>, based the improved accuracy that it provides for North America.</p>
<b>Model</b>	none
<b>References</b>	[ <a href="#">NAVD88</a> , "History of U.S. National Geodetic Vertical Datums" and "Analyses of NGVD 29 General Adjustment"]
<b>Object type:</b> Planet (non-Earth)	
<b>Object type:</b> Satellite	
<b>Object type:</b> Sun	

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