

Annex J
(normative)

Deprecated SRM concept instances

J.1 Overview

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 document.

J.2 Deprecated RDs

This sub-annex presents the specifications of deprecated RDs. RD 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	Table J.2
Deprecated sphere RDs	Table J.3
Deprecated prolate ellipsoid RDs	Table J.4
Deprecated tri-axial ellipsoid RDs	Table J.5

Table J.2 — Deprecated oblate ellipsoid RDs

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WGS_1960	143	World Geodetic System 1960	6 378 165	1/298,3	Assumed precise	1960	[DIGEST, Table 6.1, "WS"]	Superseded by WGS 1972 and WGS 1984 , based on more recent information contained in 83502T .
WGS_1966	144	World Geodetic System 1966	6 378 145	1/298,25	Unknown	1966	[DIGEST, Table 6.1, "WC"]	Superseded by WGS 1972 and WGS 1984 , based on more recent information contained in 83502T .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

Table J.3 — Deprecated sphere RDs

RD label	RD code	Description	Parameters		Date	References	Notes
			Radius, r	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Eros (asteroid 433, a minor planet)	7 311	As specified accompanying the parameter value	2000	[RIIC, Table VI, "Eros"]	Superseded by EROS 2002 , based on more accurate information in RIIC15 .

RD label	RD code	Description	Parameters		Date	References	Notes
			Radius, r	Error estimate			
MERCURY- _1988	92	Mercury	2 439 700	As specified accompanying the parameter value	1988	[RIIC, Table IV, "Mercury"]	Superseded by MERCURY 2015 , based on more accurate information in RIIC15 .
PLUTO_1994	116	Pluto (minor planet 134340, a dwarf planet)	1 195 000	As specified accompanying the parameter value	1994	[RIIC, Table IV, "Pluto"]	Superseded by PLUTO 2017 , based on more accurate information in RIIC15 .
Object type: Satellite							
CHARON_1991	32	Charon (satellite of Pluto)	593 000	As specified accompanying the parameter value	1991	[RIIC, Table V, "Charon"]	Superseded by CHARON 2017 , based on more accurate information in RIIC15 .
DIONE_1982	50	Dione (satellite of Saturn)	560 000	As specified accompanying the parameter value	1982	[RIIC, Table V, "Dione"]	Superseded by DIONE 2010 , based on more accurate information in RIIC15 .
IAPETUS_1988	75	Iapetus (satellite of Saturn)	718 000	As specified accompanying the parameter value	1988	[RIIC, Table V, "Iapetus"]	Superseded by IAPETUS 2010 , based on more accurate information in RIIC15 .
PAN_1991	110	Pan (satellite of Saturn)	10 000	As specified accompanying the parameter value	1991	[RIIC, Table V, "Pan"]	Superseded by PAN 2013 , based on more accurate information in RIIC15 .
RHEA_1988	121	Rhea (satellite of Saturn)	764 000	As specified accompanying the parameter value	1988	[RIIC, Table V, "Rhea"]	Superseded by RHEA 2010 , based on more accurate information in RIIC15 .
TITAN_1982	134	Titan (satellite of Saturn)	2 575 000	As specified accompanying the parameter value	1982	[RIIC, Table V, "Titan"]	Superseded by TITAN 2010 , based on more accurate information in RIIC15 .
Object type: Sun							
SUN_1992	129	Sun	696 000 000	As specified accompanying the parameter value	1992	[SEID, Table 15.4, "Sun"]	Superseded by SUN 2008 , based on more accurate information in RIIC15 .

Table J.4 — Deprecated prolate ellipsoid RDs

In this document, 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 RIIC06.
Object type: Satellite									
ATLAS_1988	22	Atlas (satellite of Saturn)	18 500	17 200	13 500	As specified accompanying the parameter value	1988	[RIIC, Table V, "Atlas"]	Superseded by ATLAS 2013, based on more accurate information in RIIC15.
CALLISTO_2000	29	Callisto (satellite of Jupiter)	2 409 400	2 409 200	2 409 300	As specified accompanying the parameter value	2000	[RIIC, Table V, "Callisto"]	Superseded by CALLISTO 2001, based on more accurate information in RIIC15.
CALYPSO_1988	30	Calypso (satellite of Saturn)	15 000	8 000	8 000	As specified accompanying the parameter value	1988	[RIIC, Table V, "Calypso"]	Superseded by CALYPSO 2013, based on more accurate information in RIIC15.
DEIMOS_1988	46	Deimos (satellite of Mars)	7 500	6 100	5 200	As specified accompanying the parameter value	1988	[RIIC, Table V, "Deimos"]	Superseded by DEIMOS 1993, based on more accurate information in RIIC15.
ENCELADUS_1994	52	Enceladus (satellite of Saturn)	256 300	247 300	244 600	As specified accompanying the parameter value	1994	[RIIC, Table V, "Enceladus"]	Superseded by ENCELADUS 2006, based on more accurate information in RIIC15.

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			
EPIMETHEUS-1988	53	Epimetheus (satellite of Saturn)	69 000	55 000	55 000	As specified accompanying the parameter value	1988	[RIIC, Table V, "Epimetheus"]	Superseded by EPIMETHEUS 2013 , based on more accurate information in RIIC15 .
EUROPA_2000	55	Europa (satellite of Jupiter)	1 564 130	1 561 230	1 560 930	As specified accompanying the parameter value	2000	[RIIC, Table V, "Europa"]	Superseded by EUROPA 2007 , based on more accurate information in RIIC15 .
GANYMEDE_2000	65	Ganymede (satellite of Jupiter)	2 632 400	2 632 290	2 632 350	As specified accompanying the parameter value	2000	[RIIC, Table V, "Ganymede"]	Superseded by GANYMEDE 2007 , based on more accurate information in RIIC15 .
HELENE_1992	69	Helene (satellite of Saturn)	18 000	16 000	15 000	As specified accompanying the parameter value	1992	[SEID, Table 15.10, "Helene"]	Superseded by HELENE 2013 , based on more accurate information in RIIC15 .
HYPERION_2000	73	Hyperion (satellite of Saturn)	164 000	130 000	107 000	As specified accompanying the parameter value	2000	[RIIC, Table V, "Hyperion"]	Superseded by HYPERION 2010 , based on more accurate information in RIIC15 .
IO_2000	79	Io (satellite of Jupiter)	1 829 400	1 819 300	1 815 700	As specified accompanying the parameter value	2000	[RIIC, Table V, "Io"]	Superseded by IO 1998 , based on more accurate information in RIIC15 .
JANUS_1988	80	Janus (satellite of Saturn)	97 000	95 000	77 000	As specified accompanying the parameter value	1988	[RIIC, Table V, "Janus"]	Superseded by JANUS 2013 , based on more accurate information in RIIC15 .
MIMAS_1994	94	Mimas (satellite of Saturn)	209 100	196 200	191 400	As specified accompanying the parameter value	1994	[RIIC, Table V, "Mimas"]	Superseded by MIMAS 2010 , based on more accurate information in RIIC15 .