

EDITORS NOTE: Table of contents tables will be removed from individual clauses. The TOC below is for draft review purposes only.

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Annex E (normative)

ORMs

E.1 Introduction

This annex presents the specification of ORMs

E.2 ORMs

E.2.1 Reference ORMs

If two or more object-fixed ORMs for the same object are specified then one of the ORMs is designated as the reference ORM for that object. [Table E.1](#) lists the reference ORMs specified in this International Standard, ordered alphabetically by their label. Parameter values in the tables are specified by value or by reference. Parameters specified by reference shall use the terminology if the cited references. Those terms shall be enclosed in brackets ({ }). Referenced values in length units other than meters shall be converted to metres to specify the corresponding RT parameter.

Table E.1 — Reference ORM directory

Object name	Type	Reference ORM label
2D modelling space	Abstract	ABSTRACT 2D
3D modelling space	Abstract	ABSTRACT 3D
Adrastea	Satellite	ADRASTEA 2000
Amalthea	Satellite	AMALTHEA 2000
Ariel	Satellite	ARIEL 1988
Atlas	Satellite	ATLAS 1988

Object name	Type	Reference ORM label
Belinda	Satellite	BELINDA_1988
Bianca	Satellite	BIANCA_1988
Callisto	Satellite	CALLISTO_2000
Calypso	Satellite	CALYPSO_1988
Charon	Satellite	CHARON_1991
Cordelia	Satellite	CORDELIA_1988
Cressida	Satellite	CRESSIDA_1988
Deimos	Satellite	DEIMOS_1988
Desdemona	Satellite	DESDEMONA_1988
Despina	Satellite	DESPINA_1991
Dione	Satellite	DIONE_1982
Earth	Earth	WGS_1984
Enceladus	Satellite	ENCELADUS_1994
Epimetheus	Satellite	EPIMETHEUS_1988
Eros (asteroid 433)	Planet	EROS_2000
Europa	Satellite	EUROPA_2000
Galatea	Satellite	GALATEA_1991
Ganymede	Satellite	GANYMEDE_2000
Gaspra (asteroid 951)	Planet	GASPRA_1991
Helene	Satellite	HELENE_1992
Iapetus	Satellite	IAPETUS_1988
Ida (asteroid 243)	Planet	IDA_1991
Io	Satellite	IO_2000
Janus	Satellite	JANUS_1988
Juliet	Satellite	JULIET_1988

Object name	Type	Reference ORM label
Jupiter	Planet	JUPITER_1988
Larissa	Satellite	LARISSA_1991
Mars	Planet	MARS_2000
Mercury	Planet	MERCURY_1988
Metis	Satellite	METIS_2000
Mimas	Satellite	MIMAS_1994
Miranda	Satellite	MIRANDA_1988
Moon	Satellite	MOON_1991
Naiad	Satellite	NAIAD_1991
Neptune	Planet	NEPTUNE_1991
Oberon	Satellite	OBERON_1988
Ophelia	Satellite	OPHELIA_1988
Pan	Satellite	PAN_1991
Pandora	Satellite	PANDORA_1988
Phobos	Satellite	PHOBOS_1988
Phoebe	Satellite	PHOEBE_1988
Pluto	Planet	PLUTO_1994
Portia	Satellite	PORTIA_1988
Prometheus	Satellite	PROMETHEUS_1988
Proteus	Satellite	PROTEUS_1991
Puck	Satellite	PUCK_1988
Rhea	Satellite	RHEA_1988
Rosalind	Satellite	ROSALIND_1988
Saturn	Planet	SATURN_1988
Sun	Sun	SUN_1992

Object name	Type	Reference ORM label
Telesto	Satellite	TELESTO_1988
Tethys	Satellite	TETHYS_1991
Thalassa	Satellite	THALASSA_1991
Thebe	Satellite	THEBE_2000
Titan	Satellite	TITAN_1982
Titania	Satellite	TITANIA_1988
Triton	Satellite	TRITON_1991
Umbriel	Satellite	UMBRIEL_1988
Uranus	Planet	URANUS_1988
Venus	Planet	VENUS_1991

E.2.2 Standardized ORMs

The fields of an ORM specification are defined in [Table 7.10](#). [Table E.2](#) is a directory of standardized ORMs organized by category of ORM and type of object. The ORM entries in each table are ordered alphabetically by their label. The directory includes deprecated ORMs in [Annex J](#). ORM specifications may include one or more RT specifications. The RT specifications associated with an ORM immediately follow the ORM Table entry. RT entries are have a blank table cell shaded grey to distinguish RT entires from ORM entries in the tables.

Table E.2 — ORM specification directory

ORM specification table	Table
Abstract ORM specifications	Table E.3 and Table J.7
Object fixed ERM specifications	Table E.4 and Table J.8
Dynamic ERM specifications	Table E.5 and Table J.9
Time fixed instance of a dynamic ERM specifications	Table E.6 and Table J.10
Object fixed planet (non-Earth) ORM specifications	Table E.7 and Table J.11
Dynamic planet (non-Earth) ORM specifications	Table E.8 and Table J.12

ORM specification table	Table
Time fixed instance of a dynamic planet (non-Earth) ORM specifications	Table E.9 and Table J.13
Object fixed satellite ORM specifications	Table E.10 and Table J.14
Dynamic satellite ORM specifications	Table E.11 and Table J.15
Time fixed instance of a dynamic satellite ORM specifications	Table E.12 and Table J.16
Stellar ORM specifications	Table E.13 and Table J.17
Dynamic stellar ORM specifications	Table E.14 and Table J.17
Time fixed instance of a dynamic stellar ORM specifications	Table E.15 and Table J.18

Table E.3 — Abstract ORM specifications

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
ABSTRACT_2D	1	2D modelling space	This is the reference ORM for abstract 2D object-space.	none	Universal	BI_AXIS_ORIGIN_2D	N/A	none
	RT Label		RT Code	RT Region	RT Parameters		Date published	References
	IDENTITY		1	Universal	N/A		N/A	none
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
ABSTRACT_3D	2	3D modelling space	This is the reference ORM for abstract 3D object-space.	none	Universal	TRI_PLANE	N/A	none
	RT Label		RT Code	RT Region	RT Parameters		Date published	References
	IDENTITY		1	Universal	N/A		N/A	none

Table E.4 — Object-fixed ERM specifications

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
ADINDAN_1991	3	Adindan	WGS 1984	1991	Burkina Faso, Cameroon, Ethiopia, Mali, Senegal, and Sudan	OBLATE ELLIPSOID	CLARKE 1880	[83502T , App. B.2, "ADI"]
RT Label	RT Code	RT Region		RT Parameters			Date published	References
BURKINA_FASO	1	Burkina Faso; $+4^{\circ} \leq \phi \leq +22^{\circ}$; $-5^{\circ} \leq \lambda \leq +8^{\circ}$		$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise			1991	[83502T , App. B.2, "ADI-E"]
CAMEROON	2	Cameroon; $-4^{\circ} \leq \phi \leq +19^{\circ}$; $+3^{\circ} \leq \lambda \leq +23^{\circ}$		$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise			1991	[83502T , App. B.2, "ADI-F"]
ETHIOPIA	3	Ethiopia; $-3^{\circ} \leq \phi \leq +25^{\circ}$; $+26^{\circ} \leq \lambda \leq +50^{\circ}$		$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise			1991	[83502T , App. B.2, "ADI-A"]
MALI	4	Mali; $+3^{\circ} \leq \phi \leq +31^{\circ}$; $-20^{\circ} \leq \lambda \leq +11^{\circ}$		$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise			1991	[83502T , App. B.2, "ADI-C"]
MEAN_SOLUTION	5	Mean Solution (Ethiopia and Sudan); $-5^{\circ} \leq \phi \leq +31^{\circ}$; $+15^{\circ} \leq \lambda \leq +55^{\circ}$		$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise			1991	[83502T , App. B.2, "ADI-M"]
SENEGAL	6	Senegal; $+5^{\circ} \leq \phi \leq +23^{\circ}$; $-24^{\circ} \leq \lambda \leq -5^{\circ}$		$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise			1991	[83502T , App. B.2, "ADI-D"]
SUDAN	7	Sudan; $-3^{\circ} \leq \phi \leq +31^{\circ}$; $+15^{\circ} \leq \lambda \leq +45^{\circ}$		$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise			1991	[83502T , App. B.2, "ADI-B"]

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References	
AFGOOYE_1987	5	Afgooye (Somalia)	WGS 1984	1987	Somalia	OBLATE ELLIPSOID	KRASSOVSKY-1940	[83502T, App. B.2, "AFG"]	
RT Label		RT Code	RT Region		RT Parameters			Date published	References
SOMALIA		1	Somalia; -8° ≤ φ ≤ +19°; +35° ≤ λ ≤ +60°		Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			1987	[83502T, App. B.2, "AFG"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References	
AIN_EL_ABD_1970	6	Ain el Abd	WGS 1984	1970	Bahrain and Saudi Arabia	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.3, "AIN"]	
RT Label		RT Code	RT Region	RT Parameters			Date published	References	
BAHRAIN_ISLAND		1	Bahrain Island; +24° ≤ φ ≤ +28°; +49° ≤ λ ≤ +53°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			1970	[83502T, App. B.3, "AIN-A"]	
SAUDI_ARABIA		2	Saudi Arabia; +8° ≤ φ ≤ +38°; +28° ≤ λ ≤ +62°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			1970	[83502T, App. B.3, "AIN-B"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References	
AMERICAN_SAMOA_1962	8	American Samoa	WGS 1984	1962	American Samoa Islands	OBLATE ELLIPSOID	CLARKE 1866	[83502T, App. B.10, "AMA"]	
RT Label		RT Code	RT Region	RT Parameters			Date published	References	

	AMERICAN_SAMOA_ISLANDS	1	American Samoa Islands; -19° ≤ φ ≤ -9°; -174° ≤ λ ≤ -165°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise	1962	[83502T, App. B.10, "AMA"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
AMERSFOORT_1885_1903	9	Amersfoort 1885 - Revised	WGS 1984	1903	Netherlands	OBLATE_ELLIPSOID	BESSEL 1841 ETHIOPIA	[HELM, "AME"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
NETHERLANDS	1	Netherlands; +50° ≤ φ ≤ +55°; +2° ≤ λ ≤ +9°	Δx = {dx} : {second column before last} m, Δy = {dy} : {column next to last} m, Δz = {dz} : {last column} m, ω ₁ = {rx}" : unknown, ω ₂ = {ry}" : unknown, ω ₃ = {rz}" : unknown, Δs = {ds} x 10 ⁻⁶ : assumed precise				1903	[HELM, "AME-7"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
ANNA_1_1965	10	Anna (astronomic)	WGS 1984	1965	Cocos Islands	OBLATE_ELLIPSOID	AUSTRALIAN NATIONAL 1966	[83502T, App. B.9, "ANO"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
COCOS_ISLANDS	1	Cocos Islands; -14° ≤ φ ≤ -10°; +94° ≤ λ ≤ +99°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise				1965	[83502T, App. B.9, "ANO"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
ANTIGUA_1943	11	Antigua (astronomic)	WGS 1984	1943	Antigua and Leeward Islands	OBLATE_ELLIPSOID	CLARKE 1880	[83502T, App. B.8, "AIA"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References

ANTIGUA_LEEWARD_ISLANDS		1	Antigua and Leeward Islands; +16° ≤ φ ≤ +20°; -65° ≤ λ ≤ -61°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise	1943	[83502T, App. B.8, "AIA"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
ARC_1950	12	Arc	WGS 1984	1950	Botswana, Lesotho, Malawi, Swaziland, Zaire, Zambia, and Zimbabwe	OBLATE ELLIPSOID	CLARKE 1880	[83502T, App. B.2, "ARF"]
RT Label	RT Code	RT Region	RT Parameters	Date published	References			
BOTSWANA	1	Botswana; -33° ≤ φ ≤ -13°; +13° ≤ λ ≤ +36°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise	1950	[83502T, App. B.2, "ARF-A"]			
BURUNDI	2	Burundi; -11° ≤ φ ≤ +4°; +21° ≤ λ ≤ +37°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise	1950	[83502T, App. B.2, "ARF-H"]			
LESOTHO	3	Lesotho; -36° ≤ φ ≤ -23°; +21° ≤ λ ≤ +35°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise	1950	[83502T, App. B.2, "ARF-B"]			
MALAWI	4	Malawi; -21° ≤ φ ≤ -3°; +26° ≤ λ ≤ +42°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise	1950	[83502T, App. B.2, "ARF-C"]			
MEAN_SOLUTION	5	Mean Solution (Botswana, Lesotho, Malawi, Swaziland, Zaire, Zambia and Zimbabwe); -36° ≤ φ ≤ +10°; +4° ≤ λ ≤ +42°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise	1950	[83502T, App. B.2, "ARF-M"]			
SWAZILAND	6	Swaziland; -33° ≤ φ ≤ -20°; +25° ≤ λ ≤ +40°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise	1950	[83502T, App. B.2, "ARF-D"]			

	ZAIRE	7	Zaire; -21° ≤ φ ≤ +10°; +4° ≤ λ ≤ +38°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise	1950	[83502T, App. B.2, "ARF-E"]		
	ZAMBIA	8	Zambia; -24° ≤ φ ≤ -1°; +15° ≤ λ ≤ +40°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise	1950	[83502T, App. B.2, "ARF-F"]		
	ZIMBABWE_3	9	Zimbabwe; -29° ≤ φ ≤ -9°; +19° ≤ λ ≤ +39°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise	1950	[83502T, App. B.2, "ARF-G"]		
	ZIMBABWE_7	10	Zimbabwe; -29° ≤ φ ≤ -9°; +19° ≤ λ ≤ +39°	Δx = {dx} : {second column before last} m, Δy = {dy} : {column next to last} m, Δz = {dz} : {last column} m, ω ₁ = {rx}" : unknown, ω ₂ = {ry}" : unknown, ω ₃ = {rz}" : unknown, Δs = {ds} x 10 ⁻⁶ : assumed precise	1950	[HELM, "ARF-7"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
ARC_1960	13	Arc	WGS_1984	1960	Kenya and Tanzania	OBLATE_ELLIPSOID	CLARKE_1880	[83502T, App. B.2, "ARS"]
	RT Label	RT Code	RT Region	RT Parameters			Date published	References
	KENYA_3	1	Kenya; -11° ≤ φ ≤ +8°; +28° ≤ λ ≤ +47°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			1960	[83502T, App. B.2, "ARS-A"]
	KENYA_7	2	Kenya; -11° ≤ φ ≤ +8°; +28° ≤ λ ≤ +47°	Δx = {dx} : {second column before last} m, Δy = {dy} : {column next to last} m, Δz = {dz} : {last column} m, ω ₁ = {rx}" : unknown, ω ₂ = {ry}" : unknown, ω ₃ = {rz}" : unknown, Δs = {ds} x 10 ⁻⁶ : assumed precise			1960	[HELM, "ARS-7"]
	MEAN_SOLUTION	3	Mean Solution (Kenya and Tanzania); -18° ≤ φ ≤ +8°; +23° ≤ λ ≤ +47°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			1960	[83502T, App. B.2, "ARS-M"]
	TANZANIA	4	Tanzania; -18° ≤ φ ≤ +5°; +23° ≤ λ ≤ +47°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			1960	[83502T, App. B.2, "ARS-B"]

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
ASCENSION_1958	15	Ascension	WGS 1984	1958	Ascension Island	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.8, "ASC"]
	RT Label	RT Code	RT Region	RT Parameters			Date published	References
	ASCENSION_ISLAND	1	Ascension Island; $-9^\circ \leq \phi \leq -6^\circ$; $-16^\circ \leq \lambda \leq -13^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise			1958	[83502T, App. B.8, "ASC"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
AUSTRALIAN_GEOD_1966	17	Australian Geodetic	WGS 1984	1966	Australia and Tasmania	OBLATE ELLIPSOID	AUSTRALIAN NATIONAL 1966	[83502T, App. B.4, "AUA"]
	RT Label	RT Code	RT Region	RT Parameters			Date published	References
	AUSTRALIA_TASMANIA	1	Australia and Tasmania; $-46^\circ \leq \phi \leq -4^\circ$; $+109^\circ \leq \lambda \leq +161^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise			1966	[83502T, App. B.4, "AUA"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
AUSTRALIAN_GEOD_1984	18	Australian Geodetic	WGS 1984	1984	Australia and Tasmania	OBLATE ELLIPSOID	AUSTRALIAN NATIONAL 1966	[83502T, App. B.4, "AUG"]
	RT Label	RT Code	RT Region	RT Parameters			Date published	References
	AUSTRALIA_TASMANIA_3	1	Australia and Tasmania; $-46^\circ \leq \phi \leq -4^\circ$; $+109^\circ \leq \lambda \leq +161^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise			1984	[83502T, App. B.4, "AUG"]

	AUSTRALIA_TASMANIA_7	2	Australia and Tasmania; -46° ≤ φ ≤ -4°; +109° ≤ λ ≤ +161°	Δx = -116, Δy = -50,47, Δz = 141,69, ω ₁ = 0,23", ω ₂ = 0,39", ω ₃ = 0,344", Δs = 0,098 3 x 10 ⁻⁶	1984	[CECT, Table 1]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
AYABELLE_LIGHTHOUSE_1991	19	Ayabelle Lighthouse (Djibouti)	WGS 1984	1991	Djibouti	OBLATE ELLIPSOID	CLARKE 1880	[83502T, App. B.2, "PHA"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	
DJIBOUTI	1	Djibouti; +5° ≤ φ ≤ +20°; +36° ≤ λ ≤ +49°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			1991	[83502T, App. B.2, "PHA"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
BEACON_E_1945	20	Beacon E (Iwo-jima; astronomic)	WGS 1984	1945	Iwo Jima Island	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.10, "ATF"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	
IWO_JIMA_ISLAND	1	Iwo Jima Island; +22° ≤ φ ≤ +26°; +140° ≤ λ ≤ +144°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			1945	[83502T, App. B.10, "ATF"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
BELGIUM_1972	21	Belgium (Observatoire d'Uccle)	WGS 1984	1972	Belgium	OBLATE ELLIPSOID	INTERNATIONAL 1924	[HELM, "ODU"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	

	BELGIUM	1	Belgium; +49° ≤ φ ≤ +52°; +1° ≤ λ ≤ +8°	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\}$ x 10 ⁻⁶ : assumed precise	1972	[HELM , "ODU-7"]
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Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
BELLEVUE_IGN_1987	23	Bellevue (IGN)	WGS 1984	1987	Efate and Erromango Islands (Vanuatu)	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T , App. B.10, "IBE"]
	RT Label		RT Code	RT Region	RT Parameters		Date published	References
	EFATE_ERROMANGO_ISLANDS		1	Efate and Erromango Islands (Vanuatu); -20° ≤ φ ≤ -16°; +167° ≤ λ ≤ +171°	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise		1987	[83502T , App. B.10, "IBE"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
BERMUDA_1957	24	Bermuda	WGS 1984	1957	Bermuda	OBLATE ELLIPSOID	CLARKE 1866	[83502T , App. B.8, "BER"]
	RT Label	RT Code	RT Region	RT Parameters			Date published	References
	BERMUDA	1	Bermuda; +31° ≤ φ ≤ +34°; -66° ≤ λ ≤ -63°	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise			1957	[83502T , App. B.8, "BER"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
BERN_1898	25	Bern	WGS 1984	1898	Switzerland	OBLATE ELLIPSOID	BESSEL 1841 ETHIOPIA	[HELM , "BRE"]
	RT Label	RT Code	RT Region	RT Parameters			Date published	References

	SWITZERLAND	1	Switzerland; +44° ≤ φ ≤ +49°; +5° ≤ λ ≤ +12°	Δx = {dx} : {second column before last} m, Δy = {dy} : {column next to last} m, Δz = {dz} : {last column} m, ω ₁ = {rx}" : unknown, ω ₂ = {ry}" : unknown, ω ₃ = {rz}" : unknown, Δs = {ds} x 10 ⁻⁶ : assumed precise			1898	[HELM, "BRE"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
BERN_1898_PM_BERN	26	Bern (with the Prime Meridian at Bern)	WGS_1984	1898 The x-positive xz-half-plane contains Bern, Switzerland (1895 determination).	Switzerland	OBLATE ELLIPSOID	BESSEL_1841_ETHIOPIA	[HELM, "BRE"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
SWITZERLAND	1	Switzerland; +44° ≤ φ ≤ +49°; -3° ≤ λ ≤ +5°	Δx = {dx} : {second column before last} m, Δy = {dy} : {column next to last} m, Δz = {dz} : {last column} m, ω ₁ = {rx}" : unknown, ω ₂ = {ry}" : unknown, ω ₃ = {rz}" + 7° 26' 22,335" : unknown, Δs = {ds} x 10 ⁻⁶ : assumed precise Note: The referenced z-axis rotation has been offset so that Bern is contained in the x-positive xz-plane.				1898	[HELM, "BRE"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
BISSAU_1991	28	Bissau	WGS_1984	1991	Guinea-Bissau	OBLATE ELLIPSOID	INTERNATIONAL_1924	[83502T, App. B.2, "BID"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
GUINEA_BISSAU	1	Guinea-Bissau; +5° ≤ φ ≤ +19°; -23° ≤ λ ≤ -7°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise				1991	[83502T, App. B.2, "BID"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
BOGOTA_OBS_1987	29	Bogota Observatory	WGS_1984	1987	Colombia	OBLATE ELLIPSOID	INTERNATIONAL_1924	[83502T, App. B.7, "BOO"]

RT Label	RT Code	RT Region	RT Parameters	Date published	References
COLUMBIA	1	Colombia; -10° ≤ φ ≤ +16°; -85° ≤ λ ≤ -61°	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1987	[83502T, App. B.7, "BOO"]

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
BOGOTA_OBS_1987_PM-BOGOTĀ	30	Bogota Observatory (with the Prime Meridian at Bogota)	WGS 1984	1987 The x-positive xz-half-plane contains Bogota, Columbia (IGAC determination).	Colombia	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.7, "BOO"]

RT Label	RT Code	RT Region	RT Parameters	Date published	References
COLUMBIA	1	Colombia; -10° ≤ φ ≤ +16°; -11° ≤ λ ≤ +13°	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = 0''$: precise, $\omega_3 = -74^\circ 4' 51,3''$: assumed precise, $\Delta s = 0$: precise Note: The referenced z-axis rotation has been offset so that Bogota is contained in the x-positive xz-plane.	1987	[83502T, App. B.7, "BOO"]

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
BUKIT_RIMPAH_1987	31	Bukit Rimpah	WGS 1984	1987	Bangka and Belitung Islands (Indonesia)	OBLATE ELLIPSOID	BESSEL 1841 ETHIOPIA	[83502T, App. C.2, "BUR"]

RT Label	RT Code	RT Region	RT Parameters	Date published	References
BANGKA_BELITUNG_ISLANDS	1	Bangka and Belitung Islands (Indonesia); -6° ≤ φ ≤ +0°; +103° ≤ λ ≤ +110°	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1987	[83502T, App. C.2, "BUR"]

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
CAMP_AREA_1987	34	Camp Area (astronomic)	WGS 1984	1987	McMurdo Camp Area (Antarctica)	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. C.2, "CAZ"]
RT Label		RT Code	RT Region	RT Parameters			Date published	References
MCMURDO_CAMP		1	McMurdo Camp Area (Antarctica); -85° ≤ φ ≤ -70°; +135° ≤ λ ≤ +180°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			1987	[83502T, App. C.2, "CAZ"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
CAMPO_INCHAUSPE_1969	35	Campo Inchauspe	WGS 1984	1969	Argentina	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.7, "CAI"]
RT Label		RT Code	RT Region	RT Parameters			Date published	References
ARGENTINA		1	Argentina; -58° ≤ φ ≤ -27°; -72° ≤ λ ≤ -51°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			1969	[83502T, App. B.7, "CAI"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
CANTON_1966	36	Canton (astronomic)	WGS 1984	1966	Phoenix Islands	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.10, "CAO"]
RT Label		RT Code	RT Region	RT Parameters			Date published	References
PHOENIX_ISLANDS		1	Phoenix Islands; -13° ≤ φ ≤ +3°; -180° ≤ λ ≤ -165°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			1966	[83502T, App. B.10, "CAO"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
CAPE_1987	37	Cape	WGS 1984	1987	South Africa	OBLATE ELLIPSOID	CLARKE 1880	[83502T, App. B.2, "CAP"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	
SOUTH_AFRICA	1	South Africa; $-43^\circ \leq \phi \leq -15^\circ$; $+10^\circ \leq \lambda \leq +40^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise			1987	[83502T, App. B.2, "CAP"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
CAPE_CANAVERAL_1991	38	Cape Canaveral	WGS 1984	1991	Bahamas and Florida	OBLATE ELLIPSOID	CLARKE 1866	[83502T, App. B.6, "CAC"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	
MEAN_SOLUTION	1	Mean Solution (Bahamas and Florida); $+15^\circ \leq \phi \leq +38^\circ$; $-94^\circ \leq \lambda \leq -12^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise			1991	[83502T, App. B.6, "CAC"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
CARTHAGE_1987	39	Carthage	WGS 1984	1987	Tunisia	OBLATE ELLIPSOID	CLARKE 1880	[83502T, App. B.2, "CGE"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	
TUNISIA	1	Tunisia; $+24^\circ \leq \phi \leq +43^\circ$; $+2^\circ \leq \lambda \leq +18^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise			1987	[83502T, App. B.2, "CGE"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
CHATHAM_1971	41	Chatam (astronomic)	WGS 1984	1971	Chatham Islands (New Zealand)	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.10, "CHI"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	

	CHATHAM_ISLANDS	1	Chatham Islands (New Zealand); -46° ≤ φ ≤ -42°; -180° ≤ λ ≤ -174°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise	1971	[83502T, App. B.7, "CHI"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
CHUA_1987	42	Chua (astronomic)	WGS 1984	1987	Paraguay	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.7, "CHU"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	
PARAGUAY	1	Paraguay; -33° ≤ φ ≤ -14°; -69° ≤ λ ≤ -49°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			1987	[83502T, App. B.7, "CHU"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
COAMPS_1998	43	COAMPS TM	WGS 1984	1998	Earth, Global	SPHERE	COAMPS_1998	[FENWM, Table 1, "COAMPS"]
RT Label		RT Code	RT Region	RT Parameters		Date published	References	
IDENTITY_BY_DEFAULT		1	Global (Earth)	{Relationship to WGS84 ellipsoid}		1998	[FENWM, Table 1, "COAMPS"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
CORREGO_ALEGRE_1987	45	Corrego Alegre	WGS 1984	1987	Brazil	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.7, "COA"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	
BRAZIL	1	Brazil; -39° ≤ φ ≤ -2°; -80° ≤ λ ≤ -29°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			1987	[83502T, App. B.7, "COA"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
CYPRUS_1935	47	Cyprus	WGS 1984	1935	Cyprus	OBLATE ELLIPSOID	CLARKE 1858	[HELM, "CYP"]

RT Label	RT Code	RT Region	RT Parameters				Date published	References
CYPRUS	1	Cyprus; $+33^\circ \leq \phi \leq +37^\circ$; $+31^\circ \leq \lambda \leq +36^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise				1935	[HELM , "CYP-7"]

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
DABOLA_1991	48	Dabola	WGS 1984	1991	Guinea	OBLATE ELLIPSOID	CLARKE 1880	[83502T , App. B.2, "DAL"]

RT Label	RT Code	RT Region	RT Parameters				Date published	References
GUINEA	1	Guinea; $+1^\circ \leq \phi \leq +19^\circ$; $-17^\circ \leq \lambda \leq -7^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise				1991	[83502T , App. B.2, "DAL"]

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
DECEPTION_1993	49	Deception	WGS 1984	1993	Deception Island (Antarctica)	OBLATE ELLIPSOID	CLARKE 1880	[83502T , App. B.8, "DID"]

RT Label	RT Code	RT Region	RT Parameters				Date published	References
DECEPTION_ISLAND	1	Deception Island (Antarctica); $-65^\circ \leq \phi \leq -62^\circ$; $+58^\circ \leq \lambda \leq +62^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise				1993	[83502T , App. B.8, "DID"]

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
DJAKARTA_1987	54	Djakarta (also known as Batavia)	WGS 1984	1987	Sumatra (Indonesia)	OBLATE ELLIPSOID	BESSEL 1841 ETHIOPIA	[83502T , App. B.3, "BAT"]

RT Label	RT Code	RT Region	RT Parameters				Date published	References
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	SUMATRA	1	Sumatra (Indonesia); -16° ≤ φ ≤ +11°; +89° ≤ λ ≤ +146°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			1987	[83502T, App. B.3, "BAT"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
DJAKARTA_1987_PM-DJAKARTA	55	Djakarta (also known as Batavia; with the Prime Meridian at Djakarta)	WGS 1984	1987 The x-positive xz-half-plane contains Djarkata, Indonesia.	Sumatra (Indonesia)	OBLATE ELLIPSOID	BESSEL 1841 ETHIOPIA	[83502T, App. B.3, "BAT"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
SUMATRA	1	Sumatra (Indonesia); -16° ≤ φ ≤ +11°; -18° ≤ λ ≤ +39°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = 0" : precise, ω ₃ = 106° 48' 27,79" : assumed precise, Δs = 0 : precise Note: The referenced z-axis rotation has been offset so that Djakarta is contained in the x-positive xz-plane.				1987	[83502T, App. B.3, "BAT"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
DOS_1968	56	DOS	WGS 1984	1968	Gizo Island (New Georgia Islands)	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.10, "GIZ"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
GIZO_ISLAND	1	Gizo Island (New Georgia Islands); -10° ≤ φ ≤ -7°; +155° ≤ λ ≤ +158°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise				1987	[83502T, App. B.10, "GIZ"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
DOS_71_4_1987	57	DOS 71/4 (St. Helena Island; astronomic)	WGS 1984	1987	St. Helena Island	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.8, "SHB"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References

ST_HELENA_ISLAND	1	St. Helena Island; $-18^\circ \leq \phi \leq -14^\circ$; $-7^\circ \leq \lambda \leq -4^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1987	[83502T, App. B.8, "SHB"]
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Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
EASTER_1967	65	Easter	WGS 1984	1967	Easter Island	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.10, "EAS"]

RT Label	RT Code	RT Region	RT Parameters	Date published	References
EASTER_ISLAND	1	Easter Island; $-29^\circ \leq \phi \leq -26^\circ$; $-111^\circ \leq \lambda \leq -108^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1967	[83502T, App. B.10, "EAS"]

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
ESTONIA_1937	69	Estonia	WGS 1984	1937	Estonia	OBLATE ELLIPSOID	BESSEL 1841 ETHIOPIA	[83502T, App. B.5, "EST"]

RT Label	RT Code	RT Region	RT Parameters	Date published	References
ESTONIA	1	Estonia; $+52^\circ \leq \phi \leq +65^\circ$; $+16^\circ \leq \lambda \leq +34^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1937	[83502T, App. B.5, "EST"]

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
ETRS_1989	70	ETRS	WGS 1984	1989	Europe	OBLATE ELLIPSOID	GRS 1980	[HELM, "EUT"]

RT Label	RT Code	RT Region	RT Parameters	Date published	References
IDENTITY_BY_MEASUREMENT	1	Europe; $+34^\circ \leq \phi \leq +73^\circ$; $-12^\circ \leq \lambda \leq +30^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise	1989	[HELM, "EUT"]

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
EUROPE_1950	72	European	WGS 1984	1950	Europe	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.5, "EUR"]

RT Label	RT Code	RT Region	RT Parameters	Date published	References
ALGERIA	1	Algeria; $+13^\circ \leq \phi \leq +43^\circ$; $-15^\circ \leq \lambda \leq +11^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise	1950	[HELM, "EUR-7", "Algeria"]
BALEARIC_ISLANDS	2	Balearic Islands; $+38^\circ \leq \phi \leq +41^\circ$; $+0^\circ \leq \lambda \leq +5^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise	1950	[HELM, "EUR-7", "Balearic Islands"]
CHANNEL_ISLANDS	3	Channel Islands; $+48^\circ \leq \phi \leq +50^\circ$; $-4^\circ \leq \lambda \leq -1^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise	1950	[HELM, "EUR", "Channel Islands"]
CYPRUS_3	4	Cyprus; $+33^\circ \leq \phi \leq +37^\circ$; $+31^\circ \leq \lambda \leq +36^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise	1950	[83502T, App. B.5, "EUR-E"]

CYPRUS_7	5	Cyprus; $+33^\circ \leq \phi \leq +37^\circ$; $+31^\circ \leq \lambda \leq +36^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise	1950	[HELM, "EUR-7", "Cyprus"]
DENMARK	6	Denmark; $+53^\circ \leq \phi \leq +59^\circ$; $+7^\circ \leq \lambda \leq +17^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise	1950	[HELM, "EUR-7", "Denmark"]
EGYPT	7	Egypt; $+16^\circ \leq \phi \leq +38^\circ$; $+19^\circ \leq \lambda \leq +42^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise	1950	[83502T, App. B.5, "EUR-F"]
ENGLAND_SCOTLAND	8	England, Scotland, Channel Islands and Shetland Islands; $+48^\circ \leq \phi \leq +62^\circ$; $-10^\circ \leq \lambda \leq +3^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise	1950	[83502T, App. B.5, "EUR-G"]
GIBRALTAR	9	Gibraltar; $+35^\circ \leq \phi \leq +37^\circ$; $-7^\circ \leq \lambda \leq -4^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise	1950	[HELM, "EUR", "Gibraltar"]
GREECE	10	Greece; $+30^\circ \leq \phi \leq +48^\circ$; $+14^\circ \leq \lambda \leq +34^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise	1950	[83502T, App. B.5, "EUR-B"]
IRAN	11	Iran; $+19^\circ \leq \phi \leq +47^\circ$; $+37^\circ \leq \lambda \leq +69^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise	1950	[83502T, App. B.5, "EUR-H"]
IRAQ	12	Iraq; $-38^\circ \leq \phi \leq -4^\circ$; $+36^\circ \leq \lambda \leq +57^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise	1950	[83502T, App. C.2, "EUR-S"]

IRELAND	13	Ireland, Northern Ireland, Wales, England, Scotland, Channel Islands, and Shetland Islands; $+48^\circ \leq \phi \leq +62^\circ$; $-12^\circ \leq \lambda \leq +3^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise	1950	[83502T, App. B.5, "EUR-K"]
LEBANON	14	Lebanon; $+32^\circ \leq \phi \leq +35^\circ$; $+34^\circ \leq \lambda \leq +38^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise	1950	[HELM, "EUR-7", "Lebanon"]
MALTA	15	Malta; $+34^\circ \leq \phi \leq +38^\circ$; $+12^\circ \leq \lambda \leq +16^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise	1950	[83502T, App. B.5, "EUR-L"]
MEAN_SOLUTION	16	Mean Solution (Austria, Belgium, Denmark, Finland, France, FRG, Gibraltar, Greece, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden and Switzerland); $+30^\circ \leq \phi \leq +80^\circ$; $+5^\circ \leq \lambda \leq +33^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise	1950	[83502T, App. B.5, "EUR-M"]
NORWAY	17	Finland and Norway; $+52^\circ \leq \phi \leq +80^\circ$; $-2^\circ \leq \lambda \leq +38^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise	1950	[83502T, App. B.5, "EUR-C"]
OMAN	18	Oman; $+10^\circ \leq \phi \leq +32^\circ$; $+46^\circ \leq \lambda \leq +65^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise	1950	[HELM, "EUR-7", "Oman"]
PORTUGAL	19	Portugal; $+36^\circ \leq \phi \leq +44^\circ$; $-11^\circ \leq \lambda \leq -5^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise	1950	[HELM, "EUR", "Portugal"]

PORTUGAL_SPAIN	20	Portugal and Spain; $+30^\circ \leq \phi \leq +49^\circ$; $-15^\circ \leq \lambda \leq +10^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise	1950	[83502T, App. B.5, "EUR-D"]
SARDINIA	21	Sardinia (Italy); $+37^\circ \leq \phi \leq +43^\circ$; $+6^\circ \leq \lambda \leq +12^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise	1950	[83502T, App. B.5, "EUR-I"]
SICILY	22	Sicily (Italy); $+35^\circ \leq \phi \leq +40^\circ$; $+10^\circ \leq \lambda \leq +17^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise	1950	[83502T, App. B.5, "EUR-J"]
SPAIN_EXCEPT_NORTHWEST	23	Spain (except Northwest); $+35^\circ \leq \phi \leq +45^\circ$; $-8^\circ \leq \lambda \leq +5^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise	1950	[HELM, "EUR-7", "Spain (except NW)"]
SPAIN_NW	24	Spain (Northwest); $+40^\circ \leq \phi \leq +45^\circ$; $-11^\circ \leq \lambda \leq -3^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise	1950	[HELM, "EUR-7", "Spain NW"]
TUNISIA	25	Tunisia; $+24^\circ \leq \phi \leq +43^\circ$; $+2^\circ \leq \lambda \leq +18^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise	1950	[83502T, App. B.5, "EUR-T"]
TURKEY	26	Turkey; $+34^\circ \leq \phi \leq +44^\circ$; $+23^\circ \leq \lambda \leq +46^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise	1950	[HELM, "EUR-7", "Turkey"]
W_EUROPE_MEAN_SOLUTION	27	Western Europe Mean Solution (Austria, Denmark, France, FRG, Netherlands and Switzerland); $+30^\circ \leq \phi \leq +78^\circ$; $-15^\circ \leq \lambda \leq +25^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise	1950	[83502T, App. B.5, "EUR-A"]

YUGOSLAVIA_NORTH		28	Former Yugoslavia North; +41° ≤ φ ≤ +48°; +12° ≤ λ ≤ +23°	Δx = {dx} : {second column before last} m, Δy = {dy} : {column next to last} m, Δz = {dz} : {last column} m, ω ₁ = {rx}" : unknown, ω ₂ = {ry}" : unknown, ω ₃ = {rz}" : unknown, Δs = {ds} x 10 ⁻⁶ : assumed precise	1950	[HELM, "EUR", "Former Yugoslavia N"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
EUROPE_1979	73	European	WGS 1984	1979	Europe	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.5, "EUS"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	
MEAN_SOLUTION	1	Mean Solution (Austria, Finland, Netherlands, Norway, Spain, Sweden and Switzerland); +30° ≤ φ ≤ +80°; -15° ≤ λ ≤ +24°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			1979	[83502T, App. B.5, "EUS"]	
PORTUGAL	2	Portugal; +36° ≤ φ ≤ +44°; -11° ≤ λ ≤ -5°	Δx = {dx} : {second column before last} m, Δy = {dy} : {column next to last} m, Δz = {dz} : {last column} m, ω ₁ = {rx}" : unknown, ω ₂ = {ry}" : unknown, ω ₃ = {rz}" : unknown, Δs = {ds} x 10 ⁻⁶ : assumed precise			1979	[HELM, "EUS", "Portugal"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
FAHUD_1987	74	Fahud	WGS 1984	1987	Oman	OBLATE ELLIPSOID	CLARKE 1880	[83502T, App. B.3, "FAH"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	
OMAN_3	1	Oman; +10° ≤ φ ≤ +32°; +46° ≤ λ ≤ +65°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			1987	[83502T, App. B.3, "FAH"]	
OMAN_7	2	Oman; +10° ≤ φ ≤ +32°; +46° ≤ λ ≤ +65°	Δx = {dx} : {second column before last} m, Δy = {dy} : {column next to last} m, Δz = {dz} : {last column} m, ω ₁ = {rx}" : unknown, ω ₂ = {ry}" : unknown, ω ₃ = {rz}" : unknown, Δs = {ds} x 10 ⁻⁶ : assumed precise			1987	[HELM, "FAH-7"]	

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
FORT_THOMAS_1955	75	Fort Thomas	WGS 1984	1955	St. Kitts, Nevis and Leeward Islands	OBLATE ELLIPSOID	CLARKE 1880	[83502T , App. B.8, "FOT"]
RT Label		RT Code	RT Region	RT Parameters			Date published	References
ST_KITTS_NEVIS_LEEWARD-ISLANDS		1	St. Kitts, Nevis and Leeward Islands; $+16^{\circ} \leq \phi \leq +19^{\circ}$; $-64^{\circ} \leq \lambda \leq -61^{\circ}$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise			1955	[83502T , App. B.8, "FOT"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
GAN_1970	77	Gan	WGS 1984	1970	Republic of Maldives	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T , App. B.9, "GAA"]
RT Label		RT Code	RT Region	RT Parameters			Date published	References
MALDIVES		1	Republic of Maldives; $-2^{\circ} \leq \phi \leq +9^{\circ}$; $+71^{\circ} \leq \lambda \leq +75^{\circ}$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise			1970	[83502T , App. B.9, "GAA"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
GDA_1994	81	GDA	WGS 1984	1994	Australia	OBLATE ELLIPSOID	GRS 1980	[HELM , "GDS"]
RT Label		RT Code	RT Region	RT Parameters			Date published	References
IDENTITY_BY_MEASUREMENT		1	Australia; $-42^{\circ} \leq \phi \leq -8^{\circ}$; $+110^{\circ} \leq \lambda \leq +155^{\circ}$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise			1994	[HELM , "GDS"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
GEODETTIC_DATUM_1949	82	Geodetic Datum	WGS 1984	1949	New Zealand	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T , App. B.10, "GEO"]

RT Label		RT Code	RT Region	RT Parameters				Date published	References
NEW_ZEALAND_3		1	New Zealand; -48° ≤ φ ≤ -33°; +165° ≤ λ ≤ +180°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise				1949	[83502T, App. B.10, "GEO"]
NEW_ZEALAND_7		2	New Zealand; -48° ≤ φ ≤ -33°; +165° ≤ λ ≤ +180°	Δx = {dx} : {second column before last} m, Δy = {dy} : {column next to last} m, Δz = {dz} : {last column} m, ω ₁ = {rx}" : unknown, ω ₂ = {ry}" : unknown, ω ₃ = {rz}" : unknown, Δs = {ds} x 10 ⁻⁶ : assumed precise				1949	[HELM, "GEO-7"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References	
GGRS 1987	95	GGRS 87)	WGS 1984	1987	Greece	OBLATE ELLIPSOID	GRS 1980	[HELM, "GRX"]	
RT Label	RT Code	RT Region	RT Parameters				Date published	References	
GREECE	1	Greece; +30° ≤ φ ≤ +48°; +14° ≤ λ ≤ +34°	Δx = {dx} : {second column before last} m, Δy = {dy} : {column next to last} m, Δz = {dz} : {last column} m, ω ₁ = {rx}" : unknown, ω ₂ = {ry}" : unknown, ω ₃ = {rz}" : unknown, Δs = {ds} x 10 ⁻⁶ : assumed precise				1987	[HELM, "GRX"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References	
GRACIOSA_BASE_SW_1948	96	Graciosa Base SW	WGS 1984	1948	Central Azores (Faial, Graciosa, Pico, Sao Jorge and Terceira Islands)	OBLATE_ELLIPSOID	INTERNATIONAL_1924	[83502T, App. B.8, "GRA"]	
RT Label	RT Code	RT Region	RT Parameters			Date published	References		

CENTRAL_AZORES	1	Central Azores (Faial, Graciosa, Pico, Sao Jorge and Terceira Islands); $+37^\circ \leq \phi \leq +41^\circ$; $-30^\circ \leq \lambda \leq -26^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1948	[83502T, App. B.8, "GRA"]			
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
GUAM_1963	97	Guam	WGS_1984	1963	Guam	OBLATE_ELLIPSOID	CLARKE_1866	[83502T, App. B.10, "GUA"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
GUAM	1	Guam; $+12^\circ \leq \phi \leq +15^\circ$; $+143^\circ \leq \lambda \leq +146^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise				1963	[83502T, App. B.10, "GUA"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
GUNONG_SEGARA_1987	98	Gunung Segara	WGS_1984	1987	Kalimantan Island (Indonesia)	OBLATE_ELLIPSOID	BESSEL_1841_ETHIOPIA	[83502T, App. C.2, "GSE"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
KALIMANTAN_ISLAND	1	Kalimantan Island (Indonesia); $-6^\circ \leq \phi \leq +9^\circ$; $+106^\circ \leq \lambda \leq +121^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise				1987	[83502T, App. C.2, "GSE"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
GUX_1_1987	99	GUX1 (astronomic)	WGS_1984	1987	Guadalcanal Island	OBLATE_ELLIPSOID	INTERNATIONAL_1924	[83502T, App. B.10, "DOB"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References

GUADALCANAL_ISLAND	1	Guadalcanal Island; -12° ≤ φ ≤ -8°; +158° ≤ λ ≤ +163°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise	1987	[83502T, App. B.10, "DOB"]
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Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
HARTEBEESTHOCK_1994	100	Hartebeesthock	WGS 1984	1994	South Africa	OBLATE ELLIPSOID	GRS 1980	[HELM , "HARTEBEESTHOCK 1994"]

RT Label	RT Code	RT Region	RT Parameters				Date published	References
SOUTH_AFRICA	1	South Africa; -43° ≤ φ ≤ -15°; +10° ≤ λ ≤ +40°	Δx = {dx} : {second column before last} m, Δy = {dy} : {column next to last} m, Δz = {dz} : {last column} m, ω ₁ = {rx}" : unknown, ω ₂ = {ry}" : unknown, ω ₃ = {rz}" : unknown, Δs = {ds} x 10 ⁻⁶ : assumed precise				1994	[HELM , "HARTEBEESTHOCK 1994"]

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
HERAT_NORTH_1987	106	Herat North	WGS 1984	1987	Afghanistan	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. C.2, "HEN"]

RT Label	RT Code	RT Region	RT Parameters				Date published	References
AFGHANISTAN	1	Afghanistan; +23° ≤ φ ≤ +44°; +55° ≤ λ ≤ +81°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise				1987	[83502T, App. C.2, "HEN"]

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
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HERMANNSKOGEL_1871	107	Hermannskogel	WGS 1984	1871	Austria, Yugoslavia (prior to 1990), Slovenia, Croatia, Bosnia and Herzegovina, and Serbia	OBLATE ELLIPSOID	BESSEL 1841 ETHIOPIA	[83502T , App. C.2, "HER"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	
AUSTRIA	1	Austria; $+46^{\circ} \leq \phi \leq +50^{\circ}$; $+8^{\circ} \leq \lambda \leq +18^{\circ}$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$ " : unknown, $\omega_2 = \{ry\}$ " : unknown, $\omega_3 = \{rz\}$ " : unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise			1871	[HELM , "HER-7", "MGI DATUM / HERMANNSKOGEL"]	
YUGOSLAVIA_3	2	Yugoslavia (prior to 1990), Slovenia, Croatia, Bosnia and Herzegovina, and Serbia; $+35^{\circ} \leq \phi \leq +52^{\circ}$; $+7^{\circ} \leq \lambda \leq +29^{\circ}$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$ " : precise, $\Delta s = 0$: precise			1997	[83502T , App. C.2, "HER"]	
YUGOSLAVIA_7	3	Yugoslavia (prior to 1990), Slovenia, Croatia, Bosnia and Herzegovina, and Serbia; $+35^{\circ} \leq \phi \leq +52^{\circ}$; $+7^{\circ} \leq \lambda \leq +29^{\circ}$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$ " : unknown, $\omega_2 = \{ry\}$ " : unknown, $\omega_3 = \{rz\}$ " : unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise			1871	[HELM , "HER-7", "Former Yugoslavia"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
HJORSEY_1955	108	Hjorsey	WGS 1984	1955	Iceland	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T , App. B.5, "HJO"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	

	ICELAND	1	Iceland; +61° ≤ φ ≤ +69°; -24° ≤ λ ≤ -11°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise	1955	[83502T, App. B.5, "HJO"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
HONG_KONG_1963	109	Hong Kong	WGS 1984	1963	Hong Kong	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.3, "HKD"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	
HONG_KONG	1	Hong Kong; +21° ≤ φ ≤ +24°; +112° ≤ λ ≤ +116°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			1963	[83502T, App. B.3, "HKD"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
HONG_KONG_1980	110	Hong Kong	WGS 1984	1980	Hong Kong	OBLATE ELLIPSOID	INTERNATIONAL 1924	[HELM, "HKE"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	
HONG_KONG	1	Hong Kong; +21° ≤ φ ≤ +24°; +112° ≤ λ ≤ +116°	Δx = {dx} : {second column before last} m, Δy = {dy} : {column next to last} m, Δz = {dz} : {last column} m, ω ₁ = {rx}" : unknown, ω ₂ = {ry}" : unknown, ω ₃ = {rz}" : unknown, Δs = {ds} x 10 ⁻⁶ : assumed precise			1980	[HELM, "HKE"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
HU_TZU_SHAN_1991	111	Hu-Tzu-Shan	WGS 1984	1991	Taiwan	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.3, "HTN"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	

	TAIWAN	1	Taiwan; $+20^\circ \leq \phi \leq +28^\circ$; $+117^\circ \leq \lambda \leq +124^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise			1991	[83502T, App. B.3, "HTN"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
HUNGARIAN_1972	112	Hungarian	WGS_1984	1972	Hungary	OBLATE ELLIPSOID	GRS_1967	[HELM, "HUY"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
HUNGARY	1	Hungary; $+40^\circ \leq \phi \leq +54^\circ$; $+11^\circ \leq \lambda \leq +29^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise				1972	[HELM, "HUY-7"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
INDIAN_1916	115	Indian	WGS_1984	1991	Bangladesh	OBLATE ELLIPSOID	EVEREST ADJ_1937	[83502T, App. B.3, "IND-B"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
BANGLADESH_3	1	Bangladesh; $+15^\circ \leq \phi \leq +33^\circ$; $+80^\circ \leq \lambda \leq +100^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise				1991	[83502T, App. B.3, "IND-B"]
BANGLADESH_7	2	Bangladesh; $+15^\circ \leq \phi \leq +33^\circ$; $+80^\circ \leq \lambda \leq +100^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise				1916	[HELM, "IND-7"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
INDIAN_1954	116	Indian	WGS_1984	1954	Thailand	OBLATE ELLIPSOID	EVEREST ADJ_1937	[83502T, App. B.3, "INF"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References

	THAILAND	1	Thailand; $+0^\circ \leq \phi \leq +27^\circ$; $+91^\circ \leq \lambda \leq +111^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise			1954	[83502T, App. B.3, "INF-A"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
INDIAN_1956	117	Indian	WGS 1984	1991	India and Nepal	OBLATE ELLIPSOID	EVEREST 1956	[83502T, App. B.3, "IND-I"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	
INDIA_NEPAL	1	India and Nepal; $+2^\circ \leq \phi \leq +44^\circ$; $+62^\circ \leq \lambda \leq +105^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise			1991	[83502T, App. B.3, "IND-I"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
INDIAN_1960	118	Indian	WGS 1984	1960	Vietnam	OBLATE ELLIPSOID	EVEREST ADJ 1937	[83502T, App. B.3, "ING"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	
CON_SON_ISLAND	1	Con Son Island (Vietnam); $+6^\circ \leq \phi \leq +11^\circ$; $+104^\circ \leq \lambda \leq +109^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise			1960	[83502T, App. B.3, "ING-B"]	
VIETNAM_16_N	2	Vietnam (near 16°N); $+11^\circ \leq \phi \leq +23^\circ$; $+101^\circ \leq \lambda \leq +115^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise			1960	[83502T, App. B.3, "ING-A"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
INDIAN_1962	119	Indian	WGS 1984	1962	Pakistan	OBLATE ELLIPSOID	EVEREST REVISED 1962	[83502T, App. C.2, "IND-P"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	

PAKISTAN	1	Pakistan; $+17^\circ \leq \phi \leq +44^\circ$; $+55^\circ \leq \lambda \leq +81^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise				1993	[83502T, App. C.2, "IND-P"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
INDIAN_1975	120	Indian	WGS_1984	1975	Thailand	OBLATE_ELLIPSOID	EVEREST_ADJ_1937	[83502T, App. B.3, "INH"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
THAILAND_1991	1	Thailand; $+0^\circ \leq \phi \leq +27^\circ$; $+91^\circ \leq \lambda \leq +111^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise				1991	[83502T, App. B.3, "INH-A"]
THAILAND_1997	2	Thailand; $+0^\circ \leq \phi \leq +27^\circ$; $+91^\circ \leq \lambda \leq +111^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise				1997	[83502T, App. B.3, "INH-A1"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
INDONESIAN_1974	121	Indonesian	WGS_1984	1974	Indonesia	OBLATE_ELLIPSOID	INDONESIAN_1974	[83502T, App. B.3, "IDN"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
INDONESIA	1	Indonesia; $-16^\circ \leq \phi \leq +11^\circ$; $+89^\circ \leq \lambda \leq +146^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise				1974	[83502T, App. B.3, "IDN"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
IRAQ_KUWAIT_BNDRY_1992	123	Iraq/Kuwait Boundary	WGS_1984	1992	Iraq and Kuwait	OBLATE_ELLIPSOID	GRS_1980	[HELM, "IKB"]

RT Label	RT Code	RT Region	RT Parameters				Date published	References
IRAQ_KUWAIT	1	Iraq and Kuwait; $+27^\circ \leq \phi \leq +39^\circ$; $+37^\circ \leq \lambda \leq +50^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$ " : unknown, $\omega_2 = \{ry\}$ " : unknown, $\omega_3 = \{rz\}$ " : unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise				1992	[HELM , "IKB"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
IRELAND_1965	124	Ireland 1965	WGS 1984	1965	Ireland	OBLATE ELLIPSOID	MODIFIED AIRY 1849	[83502T , App. B.5, "IRL"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
IRELAND_3	1	Ireland; $+50^\circ \leq \phi \leq +57^\circ$; $-12^\circ \leq \lambda \leq -4^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$ " : precise, $\Delta s = 0$: precise				1965	[83502T , App. B.5, "IRL"]
IRELAND_7	2	Ireland; $+50^\circ \leq \phi \leq +57^\circ$; $-12^\circ \leq \lambda \leq -4^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$ " : unknown, $\omega_2 = \{ry\}$ " : unknown, $\omega_3 = \{rz\}$ " : unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise				1965	[HELM , "IRL-7"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
ISTS_061_1968	125	ISTS 061 (astronomic)	WGS 1984	1968	South Georgia Island	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T , App. B.8, "ISG"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
SOUTH_GEORGIA_ISLAND	1	South Georgia Island; $-56^\circ \leq \phi \leq -52^\circ$; $-38^\circ \leq \lambda \leq -34^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$ " : precise, $\Delta s = 0$: precise				1968	[83502T , App. B.8, "ISG"]

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
ISTS_073_1969	126	ISTS 073 (astronomic)	WGS 1984	1969	Diego Garcia	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T , App. B.9, "IST"]
	RT Label	RT Code	RT Region	RT Parameters			Date published	References
	DIEGO_GARCIA	1	Diego Garcia; $-10^\circ \leq \phi \leq -4^\circ$; $+69^\circ \leq \lambda \leq +75^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise			1969	[83502T , App. B.9, "IST"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
JGD_2000	128	Japanese Geodetic Datum 2000 (JGD2000)	WGS 1984	2000	Japan	OBLATE ELLIPSOID	GRS 1980	[GRFJ]
	RT Label	RT Code	RT Region	RT Parameters			Date published	References
	IDENTITY_BY_MEASUREMENT	1	Japan; $+19^\circ \leq \phi \leq +51^\circ$; $+119^\circ \leq \lambda \leq +156^\circ$	$\Delta x = \Delta y = \Delta z = 0$, $\omega_1 = \omega_2 = \omega_3 = 0''$, $\Delta s = 0$			2000	[GRFJ]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
JOHNSTON_1961	129	Johnston	WGS 1984	1961	Johnston Island	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T , App. B.10, "JOH"]
	RT Label	RT Code	RT Region	RT Parameters			Date published	References
	JOHNSTON_ISLAND	1	Johnston Island; $-46^\circ \leq \phi \leq -43^\circ$; $-76^\circ \leq \lambda \leq -73^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise			1961	[83502T , App. B.10, "JOH"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References

KANDAWALA_1987	138	Kandawala	WGS_1984	1987	Sri Lanka	OBLATE_ELLIPSOID	EVEREST_ADJ_1937	[83502T] , App. B.3, "KAN"]
	RT Label	RT Code	RT Region	RT Parameters			Date published	References
	SRI_LANKA_3	1	Sri Lanka; $+4^\circ \leq \phi \leq +12^\circ$; $+77^\circ \leq \lambda \leq +85^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise			1987	[83502T] , App. B.3, "KAN"]
	SRI_LANKA_7	2	Sri Lanka; $+4^\circ \leq \phi \leq +12^\circ$; $+77^\circ \leq \lambda \leq +85^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise			1987	[HELM] , "KAN-7"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
KERGUELEN_1949	139	Kerguelen	WGS_1984	1949	Kerguelen Island	OBLATE_ELLIPSOID	INTERNATIONAL_1924	[83502T] , App. B.9, "KEG"]
	RT Label	RT Code	RT Region	RT Parameters			Date published	References
	KERGUELEN_ISLAND	1	Kerguelen Island; $-81^\circ \leq \phi \leq -74^\circ$; $+139^\circ \leq \lambda \leq +180^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise			1949	[83502T] , App. B.9, "KEG"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
KERTAU_1948	140	Kertau	WGS_1984	1948	West Malaysia and Singapore	OBLATE_ELLIPSOID	EVEREST_1948	[83502T] , App. B.3, "KEA"]
	RT Label	RT Code	RT Region	RT Parameters			Date published	References

W_MALAYSIA_SINGAPORE_3	1	West Malaysia and Singapore; $-5^\circ \leq \phi \leq +12^\circ$; $+94^\circ \leq \lambda \leq +112^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise	1948	[83502T, App. B.3, "KEA"]			
W_MALAYSIA_SINGAPORE_7	2	West Malaysia and Singapore; $-5^\circ \leq \phi \leq +12^\circ$; $+94^\circ \leq \lambda \leq +112^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise	1948	[HELM, "KEA-7"]			
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
KOREAN_GEODETTIC_1995	141	Korean Geodetic System	WGS 1984	1995	South Korea	OBLATE ELLIPSOID	WGS 1984	[83502T, App. B.3, "KGS"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
SOUTH_KOREA	1	South Korea; $+27^\circ \leq \phi \leq +45^\circ$; $+120^\circ \leq \lambda \leq +139^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise				2000	[83502T, App. B.3, "KGS"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
KUSAIE_1951	142	Kusaie 1951 (astronomic)	WGS 1984	1951	Caroline Islands (Federated States of Micronesia)	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.10, "KUS"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
CAROLINE_ISLANDS	1	Caroline Islands (Federated States of Micronesia); $-1^\circ \leq \phi \leq +12^\circ$; $+134^\circ \leq \lambda \leq +167^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise				1951	[83502T, App. B.10, "KUS"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References

LANDESVERMESSUNG-1995	143	Landesvermessung (CH1903+)	WGS 1984	1995	Switzerland	OBLATE ELLIPSOID	BESSEL 1841-ETHIOPIA	[HELM , "CHW"]
	RT Label	RT Code	RT Region	RT Parameters			Date published	References
	SWITZERLAND	1	Switzerland; +44° ≤ φ ≤ +49°; +5° ≤ λ ≤ +12°	Δx = {dx} : {second column before last} m, Δy = {dy} : {column next to last} m, Δz = {dz} : {last column} m, ω ₁ = {rx}" : unknown, ω ₂ = {ry}" : unknown, ω ₃ = {rz}" : unknown, Δs = {ds} x 10 ⁻⁶ : assumed precise			1995	[HELM , "CHW-7"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
LC5_1961	145	LC5 (astronomic)	WGS 1984	1961	Cayman Island Brac	OBLATE ELLIPSOID	CLARKE 1866	[83502T , App. B.8, "LCF"]
	RT Label	RT Code	RT Region	RT Parameters			Date published	References
	CAYMAN_BRAC_ISLAND	1	Cayman Brac Island; +18° ≤ φ ≤ +21°; -81° ≤ λ ≤ -78°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			1961	[83502T , App. B.8, "LCF"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
LEIGON 1991	146	Leigon	WGS 1984	1991	Ghana	OBLATE ELLIPSOID	CLARKE 1880	[83502T , App. B.2, "LEH"]
	RT Label	RT Code	RT Region	RT Parameters			Date published	References
	GHANA_3	1	Ghana; -1° ≤ φ ≤ +17°; -9° ≤ λ ≤ +7°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			1991	[83502T , App. B.2, "LEH"]
	GHANA_7	2	Ghana; -1° ≤ φ ≤ +17°; -9° ≤ λ ≤ +7°	Δx = {dx} : {second column before last} m, Δy = {dy} : {column next to last} m, Δz = {dz} : {last column} m, ω ₁ = {rx}" : unknown, ω ₂ = {ry}" : unknown, ω ₃ = {rz}" : unknown, Δs = {ds} x 10 ⁻⁶ : assumed precise			1991	[HELM , "LEH-7"]

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
LIBERIA_1964	147	Liberia	WGS 1984	1964	Liberia	OBLATE ELLIPSOID	CLARKE 1880	[83502T , App. B.2, "LIB"]
	RT Label	RT Code	RT Region	RT Parameters			Date published	References
	LIBERIA	1	Liberia; $-1^\circ \leq \phi \leq +14^\circ$; $-17^\circ \leq \lambda \leq -1^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise			1964	[83502T , App. B.2, "LIB"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
LISBON_D73	148	Lisbon D73 (Castelo di Sao Jorge)	WGS 1984	1973	Portugal	OBLATE ELLIPSOID	INTERNATIONAL 1924	[HELM , "LIS"]
	RT Label	RT Code	RT Region	RT Parameters			Date published	References
	PORTUGAL	1	Portugal; $+36^\circ \leq \phi \leq +44^\circ$; $-11^\circ \leq \lambda \leq -5^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise			1973	[HELM , "LIS-7"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
LKS_1994	149	LKS94	WGS 1984	1994	Lithuania	OBLATE ELLIPSOID	GRS 1980	[HELM , "LTH"]
	RT Label	RT Code	RT Region	RT Parameters			Date published	References
	LITHUANIA	1	Lithuania; $+52^\circ \leq \phi \leq +58^\circ$; $+18^\circ \leq \lambda \leq +28^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise			1994	[HELM , "LTH"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
LUZON_1987	150	Luzon	WGS 1984	1987	Philippines	OBLATE ELLIPSOID	CLARKE 1866	[83502T , App. B.10, "LUZ"]
	RT Label	RT Code	RT Region	RT Parameters			Date published	References

	MINDANAO_ISLAND	1	Mindanao Island (Philippines); $+4^\circ \leq \phi \leq +12^\circ$; $+120^\circ \leq \lambda \leq +128^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1987	[83502T, App. B.10, "LUZ-B"]		
	PHILIPPINES_EXCLUDING_MINDANAO_ISLAND	2	Philippines (excluding Mindanao Island); $+3^\circ \leq \phi \leq +23^\circ$; $+115^\circ \leq \lambda \leq +128^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1987	[83502T, App. B.10, "LUZ-A"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
M_PORALOKO_1991	151	M'Poraloko	WGS 1984	1991	Gabon	OBLATE ELLIPSOID	CLARKE 1880	[83502T, App. B.2, "MPO"]
	RT Label	RT Code	RT Region	RT Parameters			Date published	References
	GABON	1	Gabon; $-10^\circ \leq \phi \leq +8^\circ$; $+3^\circ \leq \lambda \leq +20^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise			1991	[83502T, App. B.2, "MPO"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
MAHE_1971	152	Mahe	WGS 1984	1971	Mahe Island (Seychelles)	OBLATE ELLIPSOID	CLARKE 1880	[83502T, App. B.9, "MIK"]
	RT Label	RT Code	RT Region	RT Parameters			Date published	References
	MAHE_ISLAND	1	Mahe Island (Seychelles); $-6^\circ \leq \phi \leq -3^\circ$; $+54^\circ \leq \lambda \leq +57^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise			1971	[83502T, App. B.9, "MIK"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
MARCUS_STATION_1952	153	Marcus Station (astronomic)	WGS 1984	1952	Marcus Islands	OBLATE ELLIPSOID	INTERNATIONAL_1924	[83502T, App. B.10, "ASQ"]

RT Label		RT Code	RT Region	RT Parameters			Date published	References
MARCUS_ISLANDS		1	Marcus Islands; $+22^{\circ} \leq \phi \leq +26^{\circ}$; $+152^{\circ} \leq \lambda \leq +156^{\circ}$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise			1952	[83502T, App. B.10, "ASQ"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
MASS 1999	157	MASS	WGS 1984	1999	Earth, Global	SPHERE	MASS 1999	[FENWM, Table 1, "MASS"]
RT Label		RT Code	RT Region	RT Parameters			Date published	References
IDENTITY_BY_DEFAULT		1	Global (Earth)	{Relationship to WGS84 ellipsoid}			1999	[FENWM, Table 1, "MASS"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
MASSAWA_1987	158	Massawa	WGS 1984	1987	Eritrea and Ethiopia	OBLATE ELLIPSOID	BESSEL 1841 ETHIOPIA	[83502T, App. B.2, "MAS"]
RT Label		RT Code	RT Region	RT Parameters			Date published	References
ERITREA_ETHIOPIA		1	Eritrea and Ethiopia; $+7^{\circ} \leq \phi \leq +25^{\circ}$; $+37^{\circ} \leq \lambda \leq +53^{\circ}$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise			1987	[83502T, App. B.2, "MAS"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
MERCHICH_1987	159	Merchich	WGS 1984	1987	Morocco	OBLATE ELLIPSOID	CLARKE 1880	[83502T, App. B.2, "MER"]
RT Label		RT Code	RT Region	RT Parameters			Date published	References
MOROCCO		1	Morocco; $+22^{\circ} \leq \phi \leq +42^{\circ}$; $-19^{\circ} \leq \lambda \leq +5^{\circ}$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise			1987	[83502T, App. B.2, "MER"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References

MIDWAY_1961	163	Midway (astronomic)	1961	WGS 1984	1961	Midway Islands	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.10, "MID"]
	RT Label	RT Code	RT Region	RT Parameters				Date published	References
	MIDWAY_ISLANDS	1	Midway Islands; +25° ≤ φ ≤ +30°; -180° ≤ λ ≤ -169°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise				1961	[83502T, App. B.10, "MID"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References	
MINNA_1991	165	Minna	WGS 1984	1991	Cameroon and Nigeria	OBLATE ELLIPSOID	CLARKE 1880	[83502T, App. B.2, "MIN"]	
	RT Label	RT Code	RT Region	RT Parameters				Date published	References
	CAMEROON	1	Cameroon; -4° ≤ φ ≤ +19°; +3° ≤ λ ≤ +23°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise				1991	[83502T, App. B.2, "MIN-A"]
	NIGERIA	2	Nigeria; -1° ≤ φ ≤ +21°; -4° ≤ λ ≤ +20°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise				1987	[83502T, App. B.2, "MIN-B"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References	
MM5_1997	167	MM5 (AFWA)	WGS 1984	1997	Earth, Global	SPHERE	MM5 1997	[FENWM, Table 1, "MM5 (AFWA)"]	
	RT Label	RT Code	RT Region	RT Parameters			Date published	References	
	IDENTITY_BY_DEFAULT	1	Global (Earth)	{Relationship to WGS84 ellipsoid}			1997	[FENWM, Table 1, "MM5 (AFWA)"]	
Label		Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References

MODTRAN_MIDLATITUDE_N-1989	168	MODTRAN	WGS 1984	1989	Earth northern midlatitude regions	SPHERE	MODTRAN_MIDLATITUDE_1989	[FENWM, Table 1, "MODTRAD, Midlatitude"]
RT Label	RT Code	RT Region			RT Parameters		Date published	References
IDENTITY_BY_DEFAULT	1	Northern midlatitude regions (Earth); $+30^\circ \leq \phi \leq +60^\circ$; $-180^\circ \leq \lambda \leq +180^\circ$			{Relationship to WGS84 ellipsoid}		1989	[FENWM, Table 1, "MODTRAD, Midlatitude"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
MODTRAN_MIDLATITUDE_S-1989	169	MODTRAN	WGS 1984	1989	Earth southern midlatitude regions	SPHERE	MODTRAN_MIDLATITUDE_1989	[FENWM, Table 1, "MODTRAD, Midlatitude"]
RT Label	RT Code	RT Region			RT Parameters		Date published	References
IDENTITY_BY_DEFAULT	1	Southern midlatitude regions (Earth); $-60^\circ \leq \phi \leq -30^\circ$; $-180^\circ \leq \lambda \leq +180^\circ$			{Relationship to WGS84 ellipsoid}		1989	[FENWM, Table 1, "MODTRAD, Midlatitude"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
MODTRAN_SUBARCTIC_N_1989	170	MODTRAN	WGS 1984	1989	Earth northern subarctic regions	SPHERE	MODTRAN_SUBARCTIC_1989	[FENWM, Table 1, "MODTRAD, Subarctic"]
RT Label	RT Code	RT Region			RT Parameters		Date published	References
IDENTITY_BY_DEFAULT	1	Northern subarctic regions (Earth); $+60^\circ \leq \phi \leq +75^\circ$; $-180^\circ \leq \lambda \leq +180^\circ$			{Relationship to WGS84 ellipsoid}		1989	[FENWM, Table 1, "MODTRAD, Subarctic"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References

MODTRAN_SUBARCTIC_S_1989	171	MODTRAN	WGS 1984	1989	Earth southern subarctic regions	SPHERE	MODTRAN SUBARCTIC 1989	[FENWM, Table 1, "MODTRAN, Subarctic"]
RT Label		RT Code	RT Region		RT Parameters		Date published	References
IDENTITY_BY_DEFAULT		1	Southern subarctic regions (Earth); -75° ≤ φ ≤ -60°; -180° ≤ λ ≤ +180°		{Relationship to WGS84 ellipsoid}		1989	[FENWM, Table 1, "MODTRAN, Subarctic"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
MODTRAN_TROPICAL_1989	172	MODTRAN	WGS 1984	1989	Earth tropical regions	SPHERE	MODTRAN TROPICAL 1989	[FENWM, Table 1, "MODTRAN, Tropical"]
RT Label		RT Code	RT Region		RT Parameters		Date published	References
IDENTITY_BY_DEFAULT		1	Tropical regions (Earth); -30° ≤ φ ≤ +30°; -180° ≤ λ ≤ +180°		{Relationship to WGS84 ellipsoid}		1989	[FENWM, Table 1, "MODTRAN, Tropical"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
MONTERRAT_1958	173	Montserrat (astronomic)	WGS 1984	1958	Montserrat and Leeward Islands	OBLATE ELLIPSOID	CLARKE 1880	[83502T, App. B.8, "ASM"]
RT Label		RT Code	RT Region		RT Parameters		Date published	References
MONTERRAT_LEEWARD-ISLANDS		1	Montserrat and Leeward Islands; +15° ≤ φ ≤ +18°; -64° ≤ λ ≤ -61°		Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0 : precise, Δs = 0 : precise		1958	[83502T, App. B.8, "ASM"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
MULTIGEN_FLAT_EARTH_1989	175	Multigen flat Earth	WGS 1984	1989	Earth, Global	SPHERE	MULTIGEN FLAT EARTH 1989	[MFCG]
RT Label		RT Code	RT Region		RT Parameters		Date published	References

IDENTITY_BY_DEFAULT		1	Global (Earth)	$\Delta x = \Delta y = \Delta z = 0, \omega_1 = \omega_2 = \omega_3 = 0'', \Delta s = 0$			1989	[MFCG]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
N_AM_1927	176	North American	WGS 1984	1927	North America	OBLATE ELLIPSOID	CLARKE 1866	[83502T], App. B.6, "NAS"]
RT Label		RT Code	RT Region			RT Parameters	Date published	References
ALASKA_EXCLUDING_ALEUTIAN_ISLANDS		1	Alaska (excluding Aleutian Islands); $+47^\circ \leq \phi \leq +78^\circ$; $-175^\circ \leq \lambda \leq -130^\circ$			$\Delta x = \{\Delta X(m)\}, \Delta y = \{\Delta Y(m)\}, \Delta z = \{\Delta Z(m)\}, \omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1927	[83502T], App. B.6, "NAS-D"]
ALBERTA_BRITISH_COLUMBIA		2	Canada (Alberta and British Columbia); $+43^\circ \leq \phi \leq +65^\circ$; $-145^\circ \leq \lambda \leq -105^\circ$			$\Delta x = \{\Delta X(m)\}, \Delta y = \{\Delta Y(m)\}, \Delta z = \{\Delta Z(m)\}, \omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1927	[83502T], App. B.6, "NAS-F"]
BAHAMAS_EXCLUDING_SAN_SALVADOR_ISLAND		3	Bahamas (excluding San Salvador Island); $+19^\circ \leq \phi \leq +29^\circ$; $-83^\circ \leq \lambda \leq -71^\circ$			$\Delta x = \{\Delta X(m)\}, \Delta y = \{\Delta Y(m)\}, \Delta z = \{\Delta Z(m)\}, \omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1927	[83502T], App. B.6, "NAS-Q"]
CANADA		4	Canada; $+36^\circ \leq \phi \leq +90^\circ$; $-150^\circ \leq \lambda \leq -50^\circ$			$\Delta x = \{\Delta X(m)\}, \Delta y = \{\Delta Y(m)\}, \Delta z = \{\Delta Z(m)\}, \omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1927	[83502T], App. B.6, "NAS-E"]
CANAL_ZONE		5	Canal Zone; $+3^\circ \leq \phi \leq +15^\circ$; $-86^\circ \leq \lambda \leq -74^\circ$			$\Delta x = \{\Delta X(m)\}, \Delta y = \{\Delta Y(m)\}, \Delta z = \{\Delta Z(m)\}, \omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1927	[83502T], App. B.6, "NAS-O"]
CARIBBEAN		6	Caribbean (Antigua Island, Barbados, Barbuda, Caicos Islands, Cuba, Dominican Republic, Grand Cayman, Jamaica and Turks Islands); $+8^\circ \leq \phi \leq +29^\circ$; $-87^\circ \leq \lambda \leq -58^\circ$			$\Delta x = \{\Delta X(m)\}, \Delta y = \{\Delta Y(m)\}, \Delta z = \{\Delta Z(m)\}, \omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1927	[83502T], App. B.6, "NAS-P"]

CENTRAL_AMERICA	7	Central America (Belize, Costa Rica, El Salvador, Guatemala, Honduras and Nicaragua); $+3^{\circ} \leq \phi \leq +25^{\circ}$; $-98^{\circ} \leq \lambda \leq -77^{\circ}$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1927	[83502T] , App. B.6, "NAS-N"]
CONTINENTAL_US	8	Continental United States Mean Solution; $+15^{\circ} \leq \phi \leq +60^{\circ}$; $-135^{\circ} \leq \lambda \leq -60^{\circ}$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1927	[83502T] , App. B.6, "NAS-C"]
CUBA	9	Cuba; $+18^{\circ} \leq \phi \leq +25^{\circ}$; $-87^{\circ} \leq \lambda \leq -72^{\circ}$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1927	[83502T] , App. B.6, "NAS-T"]
EAST_ALEUTIAN_ISLANDS	10	Aleutian Islands (east of 180°W); $+50^{\circ} \leq \phi \leq +58^{\circ}$; $-180^{\circ} \leq \lambda \leq -161^{\circ}$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1927	[83502T] , App. B.6, "NAS-V"]
EASTERN_CANADA	11	Eastern Canada (New Brunswick, Newfoundland, Nova Scotia and Quebec); $+38^{\circ} \leq \phi \leq +68^{\circ}$; $-85^{\circ} \leq \lambda \leq -45^{\circ}$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1927	[83502T] , App. B.6, "NAS-G"]
EASTERN_US	12	Eastern United States (Alabama, Connecticut, Delaware, District of Columbia, Florida, Georgia, Illinois, Indiana, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, New Hampshire, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, South Carolina, Tennessee, Vermont, Virginia, West Virginia and Wisconsin); $+18^{\circ} \leq \phi \leq +55^{\circ}$; $-102^{\circ} \leq \lambda \leq -60^{\circ}$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1927	[83502T] , App. B.6, "NAS-A"]

HAYES_PENINSULA	13	Hayes Peninsula (Greenland); $+74^{\circ} \leq \phi \leq +81^{\circ}$; $-74^{\circ} \leq \lambda \leq -56^{\circ}$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1927	[83502T] , App. B.6, "NAS-U"]
MANITOBA_ONTARIO	14	Canada (Manitoba and Ontario); $+36^{\circ} \leq \phi \leq +63^{\circ}$; $-108^{\circ} \leq \lambda \leq -69^{\circ}$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1927	[83502T] , App. B.6, "NAS-H"]
MEXICO	15	Mexico; $+10^{\circ} \leq \phi \leq +38^{\circ}$; $-122^{\circ} \leq \lambda \leq -80^{\circ}$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1927	[83502T] , App. B.6, "NAS-L"]
NORTHWEST_TERRITORIES- _SASKATCHEWAN	16	Canada (Northwest Territories and Saskatchewan); $+43^{\circ} \leq \phi \leq +90^{\circ}$; $-144^{\circ} \leq \lambda \leq -55^{\circ}$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1927	[83502T] , App. B.6, "NAS-I"]
SAN_SALVADOR_ISLAND	17	San Salvador Island; $+23^{\circ} \leq \phi \leq +26^{\circ}$; $-75^{\circ} \leq \lambda \leq -74^{\circ}$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1927	[83502T] , App. B.6, "NAS-R"]
WEST_ALEUTIAN_ISLANDS	18	Aleutian Islands (west of 180°W); $+50^{\circ} \leq \phi \leq +58^{\circ}$; $+169^{\circ} \leq \lambda \leq +180^{\circ}$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1927	[83502T] , App. B.6, "NAS-W"]
WESTERN_US	19	Western United States (Arizona, Arkansas, California, Colorado, Idaho, Iowa, Kansas, Montana, Nebraska, Nevada, New Mexico, North Dakota, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington and Wyoming); $+19^{\circ} \leq \phi \leq +55^{\circ}$; $-132^{\circ} \leq \lambda \leq -87^{\circ}$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1927	[83502T] , App. B.6, "NAS-B"]

	YUKON		20	Canada (Yukon); +53° ≤ φ ≤ +75°; -147° ≤ λ ≤ -117°			$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1927	[83502T, App. B.6, "NAS-J"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References	
N_AM_1983	177	North American	WGS 1984	1983	North America	OBLATE ELLIPSOID	GRS 1980	[83502T, App. B.6, "NAR"], [NAD83]	
RT Label		RT Code	RT Region		RT Parameters		Date published	References	
ALASKA_EXCLUDING_ALEUTIAN_ISLANDS		1	Alaska (excluding Aleutian Islands); +48° ≤ φ ≤ +78°; -175° ≤ λ ≤ -135°		$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise		1983	[83502T, App. B.6, "NAR-A"]	
ALEUTIAN_ISLANDS		2	Aleutian Islands; +51° ≤ φ ≤ +74°; -180° ≤ λ ≤ +180°		$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise		1983	[83502T, App. B.6, "NAR-E"]	
CANADA		3	Canada; +36° ≤ φ ≤ +90°; -150° ≤ λ ≤ -50°		$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise		1983	[83502T, App. B.6, "NAR-B"]	
CONTINENTAL_US		4	Continental United States; +15° ≤ φ ≤ +60°; -135° ≤ λ ≤ -60°		$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise		1983	[83502T, App. B.6, "NAR-C"]	
HAWAII		5	Hawaii; +17° ≤ φ ≤ +24°; -164° ≤ λ ≤ -153°		$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise		1983	[83502T, App. B.6, "NAR-H"]	
MEXICO_CENTRAL_AMERICA		6	Mexico and Central America; +11° ≤ φ ≤ +35°; -122° ≤ λ ≤ -72°		$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise		1983	[83502T, App. B.6, "NAR-D"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References	
N_SAHARA_1959	178	North Sahara	WGS 1984	1959	Algeria	OBLATE ELLIPSOID	CLARKE 1880	[83502T, App. B.2, "NSD"]	

RT Label	RT Code	RT Region	RT Parameters			Date published	References
ALGERIA	1	Algeria; $+13^{\circ} \leq \phi \leq +43^{\circ}$; $-15^{\circ} \leq \lambda \leq +11^{\circ}$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise			1959	[83502T, App. B.2, "NSD"]

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
NAHRWAN_1987	179	Nahrwan	WGS_1984	1987	Oman, Saudi Arabia, and the United Arab Emirates	OBLATE ELLIPSOID	CLARKE 1880	[83502T, App. B.3, "NAH"]

RT Label	RT Code	RT Region	RT Parameters			Date published	References
MASIRAH_ISLAND	1	Masirah Island (Oman); $+19^{\circ} \leq \phi \leq +22^{\circ}$; $+57^{\circ} \leq \lambda \leq +60^{\circ}$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise			1987	[83502T, App. B.3, "NAH-A"]
SAUDI_ARABIA	2	Saudi Arabia; $+8^{\circ} \leq \phi \leq +38^{\circ}$; $+28^{\circ} \leq \lambda \leq +62^{\circ}$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise			1991	[83502T, App. B.3, "NAH-C"]
UNITED_ARAB_EMIRATES	3	United Arab Emirates; $+17^{\circ} \leq \phi \leq +32^{\circ}$; $+45^{\circ} \leq \lambda \leq +62^{\circ}$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise			1987	[83502T, App. B.3, "NAH-B"]

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
NAPARIMA_1991	181	Naparima BWI	WGS_1984	1991	Trinidad and Tobago (British West Indies)	OBLATE ELLIPSOID	INTERNATIONAL_1924	[83502T, App. B.8, "NAP"]

RT Label	RT Code	RT Region	RT Parameters			Date published	References
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TRINIDAD_TOBAGO	1	Trinidad and Tobago (British West Indies); +8° ≤ φ ≤ +13°; -64° ≤ λ ≤ -59°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise	1991	[83502T, App. B.8, "NAP"]			
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
NOGAPS_1988	185	NOGAPS	WGS_1984	1988	Earth, Global	SPHERE	NOGAPS_1988	[FENWM , Table 1, "NOGAPS"]
RT Label		RT Code	RT Region	RT Parameters			Date published	References
IDENTITY_BY_DEFAULT		1	Global (Earth)	{Relationship to WGS84 ellipsoid}			1988	[FENWM , Table 1, "NOGAPS"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
NTF_1896	186	NTF	WGS_1984	1896	France	OBLATE ELLIPSOID	CLARKE 1880 IGN	[HELM , "NFR"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
FRANCE	1	France; +42° ≤ φ ≤ +52°; -6° ≤ λ ≤ +10°	Δx = {dx} : {second column before last} m, Δy = {dy} : {column next to last} m, Δz = {dz} : {last column} m, ω ₁ = {rx}" : unknown, ω ₂ = {ry}" : unknown, ω ₃ = {rz}" : unknown, Δs = {ds} x 10 ⁻⁶ : assumed precise				1896	[HELM , "NFR"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
NTF_1896_PM_PARIS	187	NTF (with the Prime Meridian at Paris)	WGS_1984	1896 The x-positive xz-half-plane contains Paris, France (IGN 1936 determination).	France	OBLATE ELLIPSOID	CLARKE_1880_IGN	[HELM , "NFR"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
FRANCE	1	France; +42° ≤ φ ≤ +52°; -8° ≤ λ ≤ +8°	Δx = {dx} : {second column before last} m, Δy = {dy} : {column next to last} m, Δz = {dz} : {last column} m, ω ₁ = {rx}" : unknown, ω ₂ = {ry}" : unknown, ω ₃ = {rz}" + 2° 20' 14,025" : unknown, Δs = {ds} x 10 ⁻⁶ : assumed precise Note: The referenced z-axis rotation has been offset so that Paris is contained in the x-positive xz-plane.				1896	[HELM , "NFR"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References

OBSERV_METEORO_1939	189	Observatorio Meteorologico	WGS 1984	1939	Corvo Flores Islands (Azores)	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.8, "FLO"]
RT Label		RT Code	RT Region	RT Parameters			Date published	References
CORVO_FLORES_ISLANDS		1	Corvo Flores Islands (Azores); $+38^\circ \leq \phi \leq +41^\circ$; $-33^\circ \leq \lambda \leq -30^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise			1939	[83502T, App. B.8, "FLO"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
OLD_EGYPTIAN_1907	190	Old Egyptian	WGS 1984	1907	Egypt	OBLATE ELLIPSOID	HELMERT 1906	[83502T, App. B.2, "OEG"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	
EGYPT	1	Egypt; $+16^\circ \leq \phi \leq +38^\circ$; $+19^\circ \leq \lambda \leq +42^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise			1907	[83502T, App. B.2, "OEG"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
OLD_HAWAIIAN_CLARKE_1987	191	Old Hawaiian (Clarke)	WGS 1984	1987	Hawaiian Islands	OBLATE ELLIPSOID	CLARKE 1866	[83502T, App. B.10, "OHA"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	
HAWAII	1	Hawaii (US); $+17^\circ \leq \phi \leq +22^\circ$; $-158^\circ \leq \lambda \leq -153^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise			1991	[83502T, App. B.10, "OHA-A"]	
KAUAI	2	Kauai (US); $+20^\circ \leq \phi \leq +24^\circ$; $-161^\circ \leq \lambda \leq -158^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise			1991	[83502T, App. B.10, "OHA-B"]	

	MAUI	3	Maui (US); +19° ≤ φ ≤ +23°; -158° ≤ λ ≤ -154°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise		1991	[83502T] , App. B.10, "OHA-C"]		
	MEAN_SOLUTION	4	Mean Solution (Hawaii (US)); +17° ≤ φ ≤ +24°; -164° ≤ λ ≤ -153°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise		1987	[83502T] , App. B.10, "OHA-M"]		
	OAHU	5	Oahu (US); +20° ≤ φ ≤ +23°; -160° ≤ λ ≤ -156°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise		1991	[83502T] , App. B.10, "OHA-D"]		
Label		Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
OLD_HAWAIIAN_INT_1987		192	Old Hawaiian (International)	WGS 1984	1987	Hawaiian Islands	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T] , App. B.10, "OHI"]
RT Label		RT Code	RT Region	RT Parameters			Date published	References	
HAWAII		1	Hawaii (US); +17° ≤ φ ≤ +22°; -158° ≤ λ ≤ -153°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			2000	[83502T] , App. B.10, "OHI-A"]	
KAUAI		2	Kauai (US); +20° ≤ φ ≤ +24°; -161° ≤ λ ≤ -158°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			2000	[83502T] , App. B.10, "OHI-B"]	
MAUI		3	Maui (US); +19° ≤ φ ≤ +23°; -158° ≤ λ ≤ -154°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			2000	[83502T] , App. B.10, "OHI-C"]	
MEAN_SOLUTION		4	Mean Solution (Hawaii (US)); +17° ≤ φ ≤ +24°; -164° ≤ λ ≤ -153°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			2000	[83502T] , App. B.10, "OHI-M"]	
OAHU		5	Oahu (US); +20° ≤ φ ≤ +23°; -160° ≤ λ ≤ -156°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			2000	[83502T] , App. B.10, "OHI-D"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References	
OSGB_1936	194	Ordnance Survey of Great Britain	WGS 1984	1936	Great Britain	OBLATE ELLIPSOID	AIRY 1830	[83502T] , App. B.5, "OGB"]	

RT Label	RT Code	RT Region	RT Parameters				Date published	References
ENGLAND	1	England; $+44^\circ \leq \phi \leq +61^\circ$; $-12^\circ \leq \lambda \leq +7^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise				1936	[83502T, App. B.5, "OGB-A"]
ENGLAND_ISLE_OF_MAN- _WALES	2	England, Isle of Man, and Wales; $+44^\circ \leq \phi \leq +61^\circ$; $-12^\circ \leq \lambda \leq +7^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise				1936	[83502T, App. B.5, "OGB-B"]
GREAT_BRITAIN_7	3	Great Britain; $+49^\circ \leq \phi \leq +60^\circ$; $-9^\circ \leq \lambda \leq +3^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise				1936	[HELM, "OGB-7"]
MEAN_SOLUTION_3	4	Mean Solution (England, Isle of Man, Scotland, Shetland, and Wales); $+44^\circ \leq \phi \leq +66^\circ$; $-14^\circ \leq \lambda \leq +7^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise				1936	[83502T, App. B.5, "OGB-M"]
SCOTLAND_SHETLAND- _ISLANDS	5	Scotland and Shetland Islands; $+49^\circ \leq \phi \leq +66^\circ$; $-14^\circ \leq \lambda \leq +4^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise				1936	[83502T, App. B.5, "OGB-C"]
WALES	6	Wales; $+46^\circ \leq \phi \leq +59^\circ$; $-11^\circ \leq \lambda \leq +3^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise				1936	[83502T, App. B.5, "OGB-D"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
PALESTINE_1928	195	Palestine	WGS_1984	1928	Israel and Jordan	OBLATE_ELLIPSOID	CLARKE_1880_PALESTINE	[HELM, "PAL"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References

	ISRAEL_JORDAN	1	Israel and Jordan; $+28^\circ \leq \phi \leq +34^\circ$; $+33^\circ \leq \lambda \leq +41^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$ " : unknown, $\omega_2 = \{ry\}$ " : unknown, $\omega_3 = \{rz\}$ " : unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise			1928	[HELM , "PAL"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
PICO_DE_LAS_NIEVES_1987	200	Pico de las Nieves	WGS 1984	1987	Canary Islands (Spain)	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T , App. B.8, "PLN"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	
CANARY_ISLANDS	1	Canary Islands (Spain); $+26^\circ \leq \phi \leq +31^\circ$; $-20^\circ \leq \lambda \leq -12^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise			1987	[83502T , App. B.8, "PLN"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
PITCAIRN_1967	201	Pitcairn (astronomic)	WGS 1984	1967	Pitcairn Island	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T , App. B.10, "PIT"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	
PITCAIRN_ISLAND	1	Pitcairn Island; $-27^\circ \leq \phi \leq -21^\circ$; $-134^\circ \leq \lambda \leq -119^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise			1967	[83502T , App. B.10, "PIT"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
POINT_58_1991	204	Point 58	WGS 1984	1991	Burkina Faso and Niger	OBLATE ELLIPSOID	CLARKE 1880	[83502T , App. B.2, "PTB"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	

MEAN_SOLUTION	1	Mean Solution (Burkina Faso and Niger); $+0^\circ \leq \phi \leq +10^\circ$; $-15^\circ \leq \lambda \leq +25^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1991	[83502T, App. B.2, "PTB"]			
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
POINTE_NOIRE_1948	205	Pointe Noire	WGS 1984	1948	Congo	OBLATE ELLIPSOID	CLARKE 1880	[83502T, App. B.2, "PTN"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
CONGO	1	Congo; $-11^\circ \leq \phi \leq +10^\circ$; $+5^\circ \leq \lambda \leq +25^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise				1948	[83502T, App. B.2, "PTN"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
PORTO_SANTO_1936	207	Porto Santo	WGS 1984	1936	Porto Santo and Madeira Islands	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.8, "POS"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
PORTO_SANTO_MADEIRA-ISLANDS	1	Porto Santo and Madeira Islands; $+31^\circ \leq \phi \leq +35^\circ$; $-18^\circ \leq \lambda \leq -15^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise				1936	[83502T, App. B.8, "POS"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
PROV_S_AM_1956	210	Provisional South American	WGS 1984	1956	South America	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.7, "PRP"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
BOLIVIA	1	Bolivia; $-28^\circ \leq \phi \leq -4^\circ$; $-75^\circ \leq \lambda \leq -51^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise				1956	[83502T, App. B.7, "PRP-A"]

COLOMBIA	2	Colombia; -10° ≤ φ ≤ +16°; -85° ≤ λ ≤ -61°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise		1956	[83502T, App. B.7, "PRP-D"]		
ECUADOR	3	Ecuador; -11° ≤ φ ≤ +7°; -85° ≤ λ ≤ -70°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise		1956	[83502T, App. B.7, "PRP-E"]		
GUYANA	4	Guyana; -4° ≤ φ ≤ +14°; -67° ≤ λ ≤ -51°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise		1956	[83502T, App. B.7, "PRP-F"]		
MEAN_SOLUTION	5	Mean Solution (Bolivia, Chile, Colombia, Ecuador, Guyana, Peru and Venezuela); -64° ≤ φ ≤ +18°; -87° ≤ λ ≤ -51°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise		1956	[83502T, App. B.7, "PRP-M"]		
N_CHILE_19_S	6	Northern Chile (near 19°S); -45° ≤ φ ≤ -12°; -83° ≤ λ ≤ -60°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise		1956	[83502T, App. B.7, "PRP-B"]		
PERU	7	Peru; -24° ≤ φ ≤ +5°; -87° ≤ λ ≤ -63°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise		1956	[83502T, App. B.7, "PRP-G"]		
S_CHILE_43_S	8	Southern Chile (near 43°S); -64° ≤ φ ≤ -20°; -83° ≤ λ ≤ -60°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise		1956	[83502T, App. B.7, "PRP-C"]		
VENEZUELA_3	9	Venezuela; -5° ≤ φ ≤ +18°; -79° ≤ λ ≤ -54°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise		1956	[83502T, App. B.7, "PRP-H"]		
VENEZUELA_7	10	Venezuela; -5° ≤ φ ≤ +18°; -79° ≤ λ ≤ -54°	Δx = {dx} : {second column before last} m, Δy = {dy} : {column next to last} m, Δz = {dz} : {last column} m, ω ₁ = {rx}" : unknown, ω ₂ = {ry}" : unknown, ω ₃ = {rz}" : unknown, Δs = {ds} x 10 ⁶ : assumed precise		1956	[HELM, "PRP-7"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
PROV_S_CHILEAN_1963	211	Provisional South Chilean (Hito xVIII)	WGS_1984	1963	South Chile	OBLATE_ELLIPSOID	INTERNATIONAL_1924	[83502T, App. B.7, "HIT"]

RT Label	RT Code	RT Region	RT Parameters				Date published	References
SOUTH_CHILE	1	South Chile (near 53°S); -64° ≤ φ ≤ -25°; -83° ≤ λ ≤ -60°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise				1963	[83502T, App. B.7, "HIT"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
PUERTO_RICO_1987	213	Puerto Rico	WGS 1984	1987	Puerto Rico and Virgin Islands	OBLATE ELLIPSOID	CLARKE 1866	[83502T, App. B.8, "PUR"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
PUERTO_RICO_VIRGIN-ISLANDS	1	Puerto Rico and Virgin Islands; +16° ≤ φ ≤ +20°; -69° ≤ λ ≤ -63°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise				1987	[83502T, App. B.8, "PUR"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
PULKOVO_1942	214	Pulkovo	WGS 1984	1942	Eastern Europe and Russia	OBLATE ELLIPSOID	KRASSOVSKY 1940	[83502T, App. C.2, "PUK"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
ESTONIA	1	Estonia; +52° ≤ φ ≤ +65°; +16° ≤ λ ≤ +34°	Δx = {dx} : {second column before last} m, Δy = {dy} : {column next to last} m, Δz = {dz} : {last column} m, ω ₁ = {rx}" : unknown, ω ₂ = {ry}" : unknown, ω ₃ = {rz}" : unknown, Δs = {ds} x 10 ⁻⁶ : assumed precise				1942	[HELM, "PUK-7", "Estonia"]
GERMANY	2	FRG ; +46° ≤ φ ≤ +57°; +4° ≤ λ ≤ +16°	Δx = {dx} : {second column before last} m, Δy = {dy} : {column next to last} m, Δz = {dz} : {last column} m, ω ₁ = {rx}" : unknown, ω ₂ = {ry}" : unknown, ω ₃ = {rz}" : unknown, Δs = {ds} x 10 ⁻⁶ : assumed precise				1942	[HELM, "PUK-7", "Germany"]

	RUSSIA	3	Russia; +36° ≤ φ ≤ +89°; -180° ≤ λ ≤ +180°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			1942	[83502T, App. C.2, "PUK"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
QATAR_NATIONAL_1974	215	Qatar National	WGS 1984	1974	Qatar	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.3, "QAT"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
QATAR_3	1	Qatar; +19° ≤ φ ≤ +32°; +45° ≤ λ ≤ +57°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise				1987	[83502T, App. B.3, "QAT"]
QATAR_7	2	Qatar; +19° ≤ φ ≤ +32°; +45° ≤ λ ≤ +57°	Δx = {dx} : {second column before last} m, Δy = {dy} : {column next to last} m, Δz = {dz} : {last column} m, ω ₁ = {rx}" : unknown, ω ₂ = {ry}" : unknown, ω ₃ = {rz}" : unknown, Δs = {ds} x 10 ⁻⁶ : assumed precise				1974	[HELM, "QAT-7"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
QATAR_NATIONAL_1995	216	Qatar National	WGS 1984	1995	Qatar	OBLATE ELLIPSOID	INTERNATIONAL 1924	[HELM, "QAR"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
QATAR	1	Qatar; +19° ≤ φ ≤ +32°; +45° ≤ λ ≤ +57°	Δx = {dx} : {second column before last} m, Δy = {dy} : {column next to last} m, Δz = {dz} : {last column} m, ω ₁ = {rx}" : unknown, ω ₂ = {ry}" : unknown, ω ₃ = {rz}" : unknown, Δs = {ds} x 10 ⁻⁶ : assumed precise				1995	[HELM, "QAR-7"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
QORNOQ_1987	217	Qornoq	WGS 1984	1987	South Greenland	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.8, "QUO"]

RT Label		RT Code	RT Region	RT Parameters			Date published	References
SOUTH_GREENLAND		1	South Greenland; $+57^\circ \leq \phi \leq +85^\circ$; $-77^\circ \leq \lambda \leq -7^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise			1987	[83502T], App. B.8, "QUO"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
REUNION_1947	218	Reunion	WGS 1984	1947	Mascarene Islands	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T], App. B.9, "REU"]
RT Label		RT Code	RT Region	RT Parameters			Date published	References
MASCARENE_ISLANDS		1	Mascarene Islands; $-27^\circ \leq \phi \leq -12^\circ$; $+47^\circ \leq \lambda \leq +65^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise			1947	[83502T], App. B.9, "REU"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
RGF_1993	219	Reseau Geodesique Francais	WGS 1984	1993 The x-positive xz-half-plane contains Paris, France (IGN 1936 determination).	France	OBLATE ELLIPSOID	GRS 1980	[RGF]
RT Label		RT Code	RT Region	RT Parameters			Date published	References
IDENTITY_BY_MEASUREMENT		1	France; $+42^\circ \leq \phi \leq +52^\circ$; $-6^\circ \leq \lambda \leq +10^\circ$	$\Delta x = \Delta y = \Delta z = 0$, $\omega_1 = 0''$, $\omega_2 = 0''$, $\omega_3 = 2^\circ 20' 14,025''$, $\Delta s = 0$ Note: The referenced z-axis rotation has been offset so that Paris is contained in the x-positive xz-plane.			1993	[RGF]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
ROME_1940	221	Rome (also known as Monte Mario)	WGS 1984	1940	Italy, Sardinia, and Sicily	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T], App. B.5, "MOD"]

RT Label	RT Code	RT Region	RT Parameters				Date published	References
ITALY_7	1	Italy mainland; $+37^\circ \leq \phi \leq +43^\circ$; $+4^\circ \leq \lambda \leq +20^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$ " : unknown, $\omega_2 = \{ry\}$ " : unknown, $\omega_3 = \{rz\}$ " : unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise				1940	[HELM, "MOD-7", "Italy mainland"]
SARDINIA	2	Sardinia (Italy); $+37^\circ \leq \phi \leq +43^\circ$; $+6^\circ \leq \lambda \leq +12^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$ " : precise, $\Delta s = 0$: precise				1940	[83502T, App. B.5, "MOD"]
SARDINIA_7	3	Sardinia (Italy); $+37^\circ \leq \phi \leq +43^\circ$; $+6^\circ \leq \lambda \leq +12^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$ " : unknown, $\omega_2 = \{ry\}$ " : unknown, $\omega_3 = \{rz\}$ " : unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise				1940	[HELM, "MOD-7", "Italy - Sardinia"]
SICILY	4	Sicily (Italy); $+35^\circ \leq \phi \leq +40^\circ$; $+10^\circ \leq \lambda \leq +17^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$ " : unknown, $\omega_2 = \{ry\}$ " : unknown, $\omega_3 = \{rz\}$ " : unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise				1940	[HELM, "MOD-7", "Italy - Sicily"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
ROME_1940_PM_ROME	222	Rome (also known as Monte Mario) (with the Prime Meridian at Rome)	[WGS 1984]	1940 The x-positive xz-half-plane contains Rome, Italy.	Italy, Sardinia, and Sicily	[OBLATE ELLIPSOID]	[INTERNATIONAL 1924]	[83502T, App. B.5, "MOD"]

RT Label	RT Code	RT Region	RT Parameters				Date published	References	
ITALY_7	1	Italy mainland; $+37^\circ \leq \phi \leq +43^\circ$; $-8^\circ \leq \lambda \leq +8^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$ " : unknown, $\omega_2 = \{ry\}$ " : unknown, $\omega_3 = \{rz\}$ " + 12° 27' 8,4" : unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise Note: The referenced z-axis rotation has been offset so that Rome is contained in the x-positive xz-plane.				1940	[HELM , "MOD-7", "Italy mainland"]	
SARDINIA	2	Sardinia (Italy); $+37^\circ \leq \phi \leq +43^\circ$; $-8^\circ \leq \lambda \leq +8^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = 0$ " : precise, $\omega_3 = 12^\circ 27' 8,4$ " : assumed precise, $\Delta s = 0$: precise Note: The referenced z-axis rotation has been offset so that Rome is contained in the x-positive xz-plane.				1940	[83502I , App. B.5, "MOD"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References	
RT_1990	224	RT	WGS 1984	1990	Sweden	OBLATE ELLIPSOID	BESSEL 1841 ETHIOPIA	[HELM , "RTS"]	
RT Label	RT Code	RT Region	RT Parameters				Date published	References	
SWEDEN	1	Sweden; $+54^\circ \leq \phi \leq +71^\circ$; $+10^\circ \leq \lambda \leq +26^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$ " : unknown, $\omega_2 = \{ry\}$ " : unknown, $\omega_3 = \{rz\}$ " : unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise				1990	[HELM , "RTS-7"]	
Label		Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
RT_1990_PM_STOCKHOLM		225	RT (with the Prime Meridian at Stockholm)	WGS 1984	1990	Sweden	OBLATE ELLIPSOID	BESSEL 1841 ETHIOPIA	[HELM , "RTS"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References	
SWEDEN	1	Sweden; $+54^\circ \leq \phi \leq +71^\circ$; $-8^\circ \leq \lambda \leq +8^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$ " : unknown, $\omega_2 = \{ry\}$ " : unknown, $\omega_3 = \{rz\}$ " + 18° 3' 29,8" : unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise Note: The referenced z-axis rotation has been offset so that Stockholm is contained in the x-positive xz-plane.				1990	[HELM , "RTS-7"]	

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
S_AM_1969	226	South American	WGS 1984	1969	South America	OBLATE ELLIPSOID	SOUTH AMERICAN 1969	[83502T, App. B.7, "SAN"]
RT Label		RT Code	RT Region		RT Parameters		Date published	References
ARGENTINA		1	Argentina; $-62^\circ \leq \phi \leq -23^\circ$; $-76^\circ \leq \lambda \leq -47^\circ$		$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise		1969	[83502T, App. B.7, "SAN-A"]
BALTRA_GALAPAGOS_ISLANDS		2	Baltra and Galapagos Islands (Ecuador); $-2^\circ \leq \phi \leq +1^\circ$; $-92^\circ \leq \lambda \leq -89^\circ$		$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise		1969	[83502T, App. B.7, "SAN-J"]
BOLIVIA		3	Bolivia; $-28^\circ \leq \phi \leq -4^\circ$; $-75^\circ \leq \lambda \leq -51^\circ$		$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise		1969	[83502T, App. B.7, "SAN-B"]
BRAZIL		4	Brazil; $-39^\circ \leq \phi \leq -2^\circ$; $-80^\circ \leq \lambda \leq -29^\circ$		$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise		1969	[83502T, App. B.7, "SAN-C"]
CHILE		5	Chile; $-64^\circ \leq \phi \leq -12^\circ$; $-83^\circ \leq \lambda \leq -60^\circ$		$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise		1969	[83502T, App. B.7, "SAN-D"]
COLOMBIA		6	Colombia; $-10^\circ \leq \phi \leq +16^\circ$; $-85^\circ \leq \lambda \leq -61^\circ$		$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise		1969	[83502T, App. B.7, "SAN-E"]
ECUADOR_EXCLUDING_GALAPAGOS_ISLANDS		7	Ecuador (excluding Galapagos Islands); $-11^\circ \leq \phi \leq +7^\circ$; $-85^\circ \leq \lambda \leq -70^\circ$		$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise		1969	[83502T, App. B.7, "SAN-F"]
GUYANA		8	Guyana; $-4^\circ \leq \phi \leq +14^\circ$; $-67^\circ \leq \lambda \leq -51^\circ$		$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise		1969	[83502T, App. B.7, "SAN-G"]
MEAN_SOLUTION		9	Mean Solution (Argentina, Bolivia, Brazil, Chile, Colombia, Ecuador, Guyana, Paraguay, Peru, Trinidad and Tobago, and Venezuela); $-65^\circ \leq \phi \leq -50^\circ$; $-90^\circ \leq \lambda \leq -25^\circ$		$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise		1969	[83502T, App. B.7, "SAN-M"]

	PARAGUAY	10	Paraguay; $-33^\circ \leq \phi \leq -14^\circ$; $-69^\circ \leq \lambda \leq -49^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise	1969	[83502T, App. B.7, "SAN-H"]		
	PERU	11	Peru; $-24^\circ \leq \phi \leq +5^\circ$; $-87^\circ \leq \lambda \leq -63^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise	1969	[83502T, App. B.7, "SAN-I"]		
	TRINIDAD_TOBAGO	12	Trinidad and Tobago (British West Indies); $+4^\circ \leq \phi \leq +17^\circ$; $-68^\circ \leq \lambda \leq -55^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise	1969	[83502T, App. B.7, "SAN-K"]		
	VENEZUELA	13	Venezuela; $-5^\circ \leq \phi \leq +18^\circ$; $-79^\circ \leq \lambda \leq -54^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise	1969	[83502T, App. B.7, "SAN-L"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
S_ASIA_1987	227	South Asia	WGS_1984	1987	Singapore	OBLATE_ELLIPSOID	MODIFIED_FISCHER_1960	[83502T, App. B.3, "SOA"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	
SINGAPORE	1	Singapore; $+0^\circ \leq \phi \leq +3^\circ$; $+102^\circ \leq \lambda \leq +106^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise			1987	[83502T, App. B.3, "SOA"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
S_JTSK_1993	228	S-JTSK	WGS_1984	1993	Czech Republic and Slovakia	OBLATE_ELLIPSOID	BESSEL_1841_ETHIOPIA	[83502T, App. B.5, "CCD"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	
CZECH_REPUBLIC	1	Czech Republic; $+47^\circ \leq \phi \leq +52^\circ$; $+11^\circ \leq \lambda \leq +20^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise			1993	[HELM, "CCD-7", "Czech Republic"]	

CZECH_REPUBLIC_SLOVAKIA		2	Czech Republic and Slovakia; $+43^\circ \leq \phi \leq +56^\circ$; $+6^\circ \leq \lambda \leq +28^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise		1993	[83502T, App. B.5, "CCD"]	
SLOVAKIA		3	Slovakia; $+46^\circ \leq \phi \leq +51^\circ$; $+16^\circ \leq \lambda \leq +24^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise		1993	[HELM, "CCD-7", "Slovakia"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
S42_PULKOVO	229	S-42 (Pulkovo)	WGS 1984	1942	Eastern Europe	OBLATE ELLIPSOID	KRASSOVSKY 1940	[HELM, "SPK", "Afghanistan"]
RT Label		RT Code	RT Region	RT Parameters		Date published	References	
AFGHANISTAN		1	Afghanistan; $+23^\circ \leq \phi \leq +44^\circ$; $+55^\circ \leq \lambda \leq +81^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise		1942	[HELM, "SPK", "Afghanistan"]	
ALBANIA		2	Albania; $+34^\circ \leq \phi \leq +48^\circ$; $+14^\circ \leq \lambda \leq +26^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise		1942	[83502T, App. B.5, "SPK-F"]	
CZECH_REPUBLIC_SLOVAKIA		3	Czech Republic and Slovakia; $+42^\circ \leq \phi \leq +57^\circ$; $+6^\circ \leq \lambda \leq +28^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise		1942	[83502T, App. B.5, "SPK-C"]	
HUNGARY		4	Hungary; $+40^\circ \leq \phi \leq +54^\circ$; $+11^\circ \leq \lambda \leq +29^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise		1942	[83502T, App. B.5, "SPK-A"]	
KAZAKHSTAN		5	Kazakhstan; $+35^\circ \leq \phi \leq +62^\circ$; $+41^\circ \leq \lambda \leq +93^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise		1942	[83502T, App. B.5, "SPK-E"]	
LATVIA		6	Latvia; $+50^\circ \leq \phi \leq +64^\circ$; $+15^\circ \leq \lambda \leq +34^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise		1942	[83502T, App. B.5, "SPK-D"]	

	POLAND_3	7	Poland; $+43^\circ \leq \phi \leq +60^\circ$; $+8^\circ \leq \lambda \leq +30^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1942	[83502T, App. B.5, "SPK-B"]		
	POLAND_7	8	Poland; $+43^\circ \leq \phi \leq +60^\circ$; $+8^\circ \leq \lambda \leq +30^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise	1942	[HELM, "SPK-7"]		
	ROMANIA	9	Romania; $+38^\circ \leq \phi \leq +54^\circ$; $+15^\circ \leq \lambda \leq +35^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise	1942	[HELM, "SPK", "Romania"]		
	ROMANIA_G	10	Romania; $+38^\circ \leq \phi \leq +54^\circ$; $+15^\circ \leq \lambda \leq +35^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1942	[83502T, App. B.5, "SPK-G"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
SANTO_DOS_1965	230	Santo (DOS)	WGS 1984	1965	Espirito Santo Island (Vanuatu)	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.10, "SAE"]
RT Label	RT Code	RT Region	RT Parameters	Date published	References			
ESPIRITO_SANTO_ISLAND	1	Espirito Santo Island (Vanuatu); $-17^\circ \leq \phi \leq -13^\circ$; $+160^\circ \leq \lambda \leq +169^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1965	[83502T, App. B.10, "SAE"]			
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
SAO_BRAZ_1987	231	Sao Braz	WGS 1984	1987	Sao Miguel and Santa Maria Islands (Azores)	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.8, "SAO"]
RT Label	RT Code	RT Region	RT Parameters	Date published	References			
SAO_MIGUEL_SANTA_MARIA-ISLANDS	1	Sao Miguel and Santa Maria Islands (Azores); $+35^\circ \leq \phi \leq +39^\circ$; $-27^\circ \leq \lambda \leq -23^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise	1987	[83502T, App. B.8, "SAO"]			

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
SAPPER_HILL_1943	232	Sapper Hill	WGS 1984	1943	East Falkland Islands	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.8, "SAP"]
RT Label		RT Code	RT Region	RT Parameters			Date published	References
E_FALKLAND_ISLANDS_3		1	East Falkland Islands; -54° ≤ φ ≤ -50°; -61° ≤ λ ≤ -56°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			1943	[83502T, App. B.8, "SAP"]
E_FALKLAND_ISLANDS_ADJ-2000_7		2	East Falkland Islands (adjusted 2000); -54° ≤ φ ≤ -50°; -61° ≤ λ ≤ -56°	Δx = {dx} : {second column before last} m, Δy = {dy} : {column next to last} m, Δz = {dz} : {last column} m, ω ₁ = {rx}" : unknown, ω ₂ = {ry}" : unknown, ω ₃ = {rz}" : unknown, Δs = {ds} x 10 ⁻⁶ : assumed precise			2000	[HELM, "SAP-7"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
SCHWARZECK_1991	236	Schwarzeck	WGS 1984	1991	Namibia	OBLATE ELLIPSOID	BESSEL 1841 NAMIBIA	[83502T, App. B.2, "SCK"]
RT Label		RT Code	RT Region	RT Parameters			Date published	References
NAMIBIA		1	Namibia; -35° ≤ φ ≤ -11°; +5° ≤ λ ≤ +31°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			1991	[83502T, App. B.2, "SCK"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
SELVAGEM_GRANDE_1938	237	Selvagem Grande	WGS 1984	1938	Salvage Islands (Ilhas Selvagens; Savage Islands)	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.8, "SGM"]

RT Label	RT Code	RT Region	RT Parameters				Date published	References
SALVAGE_ISLANDS	1	Salvage Islands (Ilhas Selvagens; Savage Islands); $+28^{\circ} \leq \phi \leq +32^{\circ}$; $-18^{\circ} \leq \lambda \leq -14^{\circ}$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise				1938	[83502T, App. B.8, "SGM"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
SIERRA_LEONE_1960	238	Sierra Leone	WGS 1984	1960	Sierra Leone	OBLATE ELLIPSOID	CLARKE 1880	[83502T, App. B.2, "SRL"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
SIERRA_LEONE	1	Sierra Leone; $+1^{\circ} \leq \phi \leq +16^{\circ}$; $-19^{\circ} \leq \lambda \leq -4^{\circ}$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise				1960	[83502T, App. B.2, "SRL"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
SIRGAS_2000	239	SIRGAS	WGS 1984	2000	South America	OBLATE ELLIPSOID	GRS 1980	[83502T, App. B.7, "SIR"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
IDENTITY_BY_MEASUREMENT	1	South America; $-65^{\circ} \leq \phi \leq -50^{\circ}$; $-90^{\circ} \leq \lambda \leq -25^{\circ}$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise				1988	[83502T, App. B.7, "SIR"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
SOUTHEAST_1943	240	Southeast	WGS 1984	1943	Seychelles Islands	OBLATE ELLIPSOID	CLARKE 1880	[HELM, "SEI"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References

	SEYCHELLES_ISLANDS	1	Seychelles Islands; -12° ≤ φ ≤ -2°; +45° ≤ λ ≤ +57°	Δx = {dx} : {second column before last} m, Δy = {dy} : {column next to last} m, Δz = {dz} : {last column} m, ω ₁ = {rx} : unknown, ω ₂ = {ry} : unknown, ω ₃ = {rz} : unknown, Δs = {ds} x 10 ⁻⁶ : assumed precise	1943	[HELM , "SEI-7"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
SOVIET_GEODETTIC_1985	241	Soviet Geodetic System	WGS 1984	1985	Russia	OBLATE ELLIPSOID	SOVIET GEODETTIC 1985	[HELM , "SGA"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
RUSSIA	1	Russia; +36° ≤ φ ≤ +89°; -180° ≤ λ ≤ +180°	Δx = {dx} : {second column before last} m, Δy = {dy} : {column next to last} m, Δz = {dz} : {last column} m, ω ₁ = {rx} : unknown, ω ₂ = {ry} : unknown, ω ₃ = {rz} : unknown, Δs = {ds} x 10 ⁻⁶ : assumed precise				1985	[HELM , "SGA-7"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
SOVIET_GEODETTIC_1990	242	Soviet Geodetic System	WGS 1984	1990	Russia	OBLATE ELLIPSOID	SOVIET GEODETTIC 1990	[HELM , "SGB"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
RUSSIA	1	Russia; +36° ≤ φ ≤ +89°; -180° ≤ λ ≤ +180°	Δx = {dx} : {second column before last} m, Δy = {dy} : {column next to last} m, Δz = {dz} : {last column} m, ω ₁ = {rx} : unknown, ω ₂ = {ry} : unknown, ω ₃ = {rz} : unknown, Δs = {ds} x 10 ⁻⁶ : assumed precise				1990	[HELM , "SGB-7"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
TANANARIVE_OBS_1925	244	Tananarive Observatory	WGS 1984	1925	Madagascar	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T , App. C.2, "TAN"]

RT Label	RT Code	RT Region	RT Parameters				Date published	References
MADAGASCAR_3	1	Madagascar; $-34^\circ \leq \phi \leq -8^\circ$; $+40^\circ \leq \lambda \leq +53^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise				1925	[83502T, App. C.2, "TAN"]
MADAGASCAR_7	2	Madagascar; $-34^\circ \leq \phi \leq -8^\circ$; $+40^\circ \leq \lambda \leq +53^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise				1925	[HELM, "TAN-7"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
TANANARIVE_OBS_1925_PM-PARIS	245	Tananarive Observatory (with the Prime Meridian at Paris)	WGS 1984	1925 The x-positive xz-half-plane contains Paris, France (IGN 1936 determination).	Madagascar	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. C.2, "TAN"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
MADAGASCAR_3	1	Madagascar; $-34^\circ \leq \phi \leq -8^\circ$; $+38^\circ \leq \lambda \leq +51^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = 0$: precise, $\omega_3 = 2^\circ 20' 14,025''$: assumed precise, $\Delta s = 0$: precise Note: The referenced z-axis rotation has been offset so that Paris is contained in the x-positive xz-plane.				1925	[83502T, App. C.2, "TAN"]
MADAGASCAR_7	2	Madagascar; $-34^\circ \leq \phi \leq -8^\circ$; $+38^\circ \leq \lambda \leq +51^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\} + 2^\circ 20' 14,025''$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise Note: The referenced z-axis rotation has been offset so that Paris is contained in the x-positive xz-plane.				1925	[HELM, "TAN-7"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
TERN_1961	247	Tern (astronomic)	WGS 1984	1961	Tern Island (French Frigate Shoals, Hawaiian Islands)	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.10, "TRN"]

RT Label	RT Code	RT Region	RT Parameters				Date published	References
TERN_ISLAND	1	Tern Island (French Frigate Shoals, Hawaiian Islands); $+22^\circ \leq \phi \leq +26^\circ$; $-167^\circ \leq \lambda \leq -165^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise				1961	[83502T, App. B.10, "TRN"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
TIMBALAI_BESSEL_1948	251	Timbali (Bessel)	WGS 1984	1948	Brunei and East Malaysia (Sabah and Sarawak)	OBLATE ELLIPSOID	BESSEL 1841 ETHIOPIA	[HELM, "TIV"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
BRUNEI_E_MALAYSIA_7	1	Brunei and East Malaysia (Sabah and Sarawak); $-5^\circ \leq \phi \leq +15^\circ$; $+101^\circ \leq \lambda \leq +125^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise				1948	[HELM, "TIV-7"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
TIMBALAI_BESSEL_ADJ_1968	252	Timbali (Bessel) - adjusted	WGS 1984	1968	Brunei and East Malaysia (Sabah and Sarawak)	OBLATE ELLIPSOID	BESSEL 1841 ETHIOPIA	[HELM, "TIM"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
BRUNEI_E_MALAYSIA_7	1	Brunei and East Malaysia (Sabah and Sarawak); $-5^\circ \leq \phi \leq +15^\circ$; $+101^\circ \leq \lambda \leq +125^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise				1968	[HELM, "TIM-7"]

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
TIMBALAI_EVEREST_1948	253	Timbali (Everest)	WGS 1984	1948	Brunei and East Malaysia (Sabah and Sarawak)	OBLATE ELLIPSOID	EVEREST BRUNEI 1967	[83502T , App. B.3, "TIL"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
BRUNEI_E_MALAYSIA_3	1	Brunei and East Malaysia (Sabah and Sarawak); $-5^\circ \leq \phi \leq +15^\circ$; $+101^\circ \leq \lambda \leq +125^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise				1948	[83502T , App. B.3, "TIL"]
BRUNEI_E_MALAYSIA_7	2	Brunei and East Malaysia (Sabah and Sarawak); $-5^\circ \leq \phi \leq +15^\circ$; $+101^\circ \leq \lambda \leq +125^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise				1948	[HELM , "TIL-7"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
TIMBALAI_EVEREST_ADJ-1968	254	Timbali (Everest) - adjusted	WGS 1984	1968	Brunei and East Malaysia (Sabah and Sarawak)	OBLATE ELLIPSOID	EVEREST BRUNEI 1967	[HELM , "TIN"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
BRUNEI_E_MALAYSIA_7	1	Brunei and East Malaysia (Sabah and Sarawak); $-5^\circ \leq \phi \leq +15^\circ$; $+101^\circ \leq \lambda \leq +125^\circ$	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$: unknown, $\omega_2 = \{ry\}$: unknown, $\omega_3 = \{rz\}$: unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise				1968	[HELM , "TIN-7"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References

TOKYO_1991	257	Tokyo	WGS 1984	1991	Japan, Korea, and Okinawa	OBLATE ELLIPSOID	BESSEL 1841 ETHIOPIA	[83502T, App. B.3, "TOY"]
RT Label		RT Code	RT Region	RT Parameters			Date published	References
JAPAN		1	Japan; +19° ≤ φ ≤ +51°; +119° ≤ λ ≤ +156°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			1991	[83502T, App. B.3, "TOY-A"]
MEAN_SOLUTION		2	Mean Solution (Japan, Korea, and Okinawa); +23° ≤ φ ≤ +53°; +120° ≤ λ ≤ +155°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			1991	[83502T, App. B.3, "TOY-M"]
OKINAWA		3	Okinawa (Japan); +19° ≤ φ ≤ +31°; +119° ≤ λ ≤ +134°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			1991	[83502T, App. B.3, "TOY-C"]
SOUTH_KOREA_1991		4	South Korea; +27° ≤ φ ≤ +45°; +120° ≤ λ ≤ +139°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			1991	[83502T, App. B.3, "TOY-B"]
SOUTH_KOREA_1997		5	South Korea; +27° ≤ φ ≤ +45°; +120° ≤ λ ≤ +139°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			1997	[83502T, App. B.3, "TOY-B1"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
TRISTAN_1968	258	Tristan (astronomic)	WGS 1984	1968	Tristan da Cunha	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.8, "TDC"]
RT Label		RT Code	RT Region	RT Parameters			Date published	References
TRISTAN_DA_CUHNA		1	Tristan da Cunha; -39° ≤ φ ≤ -36°; -14° ≤ λ ≤ -11°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise			1968	[83502T, App. B.8, "TDC"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
VITI_LEVU_1916	266	Viti Levu	WGS 1984	1916	Viti Levu Island (Fiji Islands)	OBLATE ELLIPSOID	CLARKE 1880	[83502T, App. B.10, "MVS"]

RT Label	RT Code	RT Region	RT Parameters	Date published	References
VITI_LEVU_ISLANDS	1	Viti Levu Island (Fiji Islands); $-20^\circ \leq \phi \leq -16^\circ$; $+176^\circ \leq \lambda \leq +180^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise	1916	[83502T, App. B.10, "MVS"]

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
VOIROL_1874	267	Voirol	WGS 1984	1874	Algeria	OBLATE ELLIPSOID	CLARKE 1880	[83502T, App. C.2, "VOI"]

RT Label	RT Code	RT Region	RT Parameters	Date published	References
ALGERIA	1	Algeria; $+13^\circ \leq \phi \leq +43^\circ$; $-15^\circ \leq \lambda \leq +11^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0$: precise, $\Delta s = 0$: precise	1874	[83502T, App. C.2, "VOI"]

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
VOIROL_1874_PM_PARIS	268	Voirol (with the Prime Meridian at Paris)	WGS 1984	1874 The x-positive xz-half-plane contains Paris, France (IGN 1936 determination).	Algeria	OBLATE ELLIPSOID	CLARKE 1880	[83502T, App. C.2, "VOI"]

RT Label	RT Code	RT Region	RT Parameters	Date published	References
ALGERIA	1	Algeria; $+13^\circ \leq \phi \leq +43^\circ$; $-17^\circ \leq \lambda \leq +9^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = 0$: precise, $\omega_3 = 2^\circ 20' 14,025''$: assumed precise, $\Delta s = 0$: precise Note: The referenced z-axis rotation has been offset so that Paris is contained in the x-positive xz-plane.	1874	[83502T, App. C.2, "VOI"]

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
VOIROL_1960	269	Voirol - Revised	WGS 1984	1960	Algeria	OBLATE ELLIPSOID	CLARKE 1880	[83502T, App. B.2, "VOR"]

RT Label	RT Code	RT Region	RT Parameters				Date published	References
ALGERIA	1	Algeria; $+13^\circ \leq \phi \leq +43^\circ$; $-15^\circ \leq \lambda \leq +11^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise				1960	[83502T, App. B.2, "VOR"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
VOIROL_1960_PM_PARIS	270	Voïrol - Revised (with the Prime Meridian at Paris)	WGS 1984	1960 The x-positive xz-half-plane contains Paris, France (IGN 1936 determination).	Algeria	OBLATE ELLIPSOID	CLARKE 1880	[83502T, App. B.2, "VOR"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
ALGERIA	1	Algeria; $+13^\circ \leq \phi \leq +43^\circ$; $-17^\circ \leq \lambda \leq +9^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = 0''$: precise, $\omega_3 = 2^\circ 20' 14,025''$: assumed precise, $\Delta s = 0$: precise Note: The referenced z-axis rotation has been offset so that Paris is contained in the x-positive xz-plane.				1960	[83502T, App. B.2, "VOR"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
WAKE_1952	271	Wake (astronomic)	WGS 1984	1952	Wake Atoll	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. B.10, "WAK"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
WAKE_ATOLL	1	Wake Atoll; $+17^\circ \leq \phi \leq +21^\circ$; $-176^\circ \leq \lambda \leq -171^\circ$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise				1952	[83502T, App. B.10, "WAK"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
WAKE_ENIWETOK_1960	272	Wake-Eniwetok	WGS 1984	1960	Marshall Islands	OBLATE ELLIPSOID	HOUGH 1960	[83502T, App. B.10, "ENW"]

RT Label	RT Code	RT Region	RT Parameters				Date published	References
MARSHALL_ISLANDS	1	Marshall Islands; $+1^{\circ} \leq \phi \leq +16^{\circ}$; $+159^{\circ} \leq \lambda \leq +175^{\circ}$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise				1960	[83502T, App. B.10, "ENW"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
WGS_1972	273	World Geodetic System	WGS_1984	1972	Earth, Global	OBLATE ELLIPSOID	WGS_1972	[WGS72]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
GLOBAL	1	Global (Earth)	$\Delta x = \{dx\}$: {second column before last} m, $\Delta y = \{dy\}$: {column next to last} m, $\Delta z = \{dz\}$: {last column} m, $\omega_1 = \{rx\}$ " : unknown, $\omega_2 = \{ry\}$ " : unknown, $\omega_3 = \{rz\}$ " : unknown, $\Delta s = \{ds\} \times 10^{-6}$: assumed precise				1972	[HELM, "WGC-7"], [83502T, Table E.1]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
WGS_1984	274	World Geodetic System	This is the reference ORM for Earth.	1984 Note: The x-positive xz-half-plane contains Greenwich, UK.	Earth, Global	OBLATE ELLIPSOID	WGS_1984	[83502T]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
IDENTITY	1	Global (Earth)	The reference ORM for the Earth.				1984	[83502T, Section 3]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
YACARE_1987	275	Yacare (Uruguay)	WGS_1984	1987	Uruguay	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T, App. C.2, "YAC"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
URUGUAY	1	Uruguay; $-40^{\circ} \leq \phi \leq -25^{\circ}$; $-65^{\circ} \leq \lambda \leq -47^{\circ}$	$\Delta x = \{\Delta X(m)\}$, $\Delta y = \{\Delta Y(m)\}$, $\Delta z = \{\Delta Z(m)\}$, $\omega_1 = \omega_2 = \omega_3 = 0''$: precise, $\Delta s = 0$: precise				1987	[83502T, App. C.2, "YAC"]

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
ZANDERIJ_1987	276	Zanderij (Suriname)	WGS 1984	1987	Suriname	OBLATE ELLIPSOID	INTERNATIONAL 1924	[83502T , App. B.7, "ZAN"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
SURINAME	1	Suriname; -10° ≤ φ ≤ +20°; -76° ≤ λ ≤ -47°	Δx = {ΔX(m)}, Δy = {ΔY(m)}, Δz = {ΔZ(m)}, ω ₁ = ω ₂ = ω ₃ = 0" : precise, Δs = 0 : precise				1987	[83502T , App. B.7, "ZAN"]

Table E.5 — Dynamic ERM specifications

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
EARTH_INERTIAL_ARIES-1950	58	Earth equatorial inertial, Aries mean of 1950	WGS 1984	DBC EQUATORIAL INERTIAL Note: First point of Aries, mean of 1950.	Vicinity of Earth	BI AXIS-ORIGIN 3D	N/A	Clause 7.5.3
EARTH_INERTIAL_ARIES-TRUE_OF_DATE	59	Earth equatorial inertial, Aries true of date	WGS 1984	DBC EQUATORIAL INERTIAL Note: First point of Aries, true of date.	Vicinity of Earth	BI AXIS-ORIGIN 3D	N/A	Clause 7.5.3
EARTH_INERTIAL_J2000r0	60	Earth equatorial inertial, J2000.0	WGS 1984	DBC EQUATORIAL INERTIAL Note: First point of Aries as of 2000 Jan 1 11:58:55.816 UTC.	Vicinity of Earth	BI AXIS-ORIGIN 3D	N/A	Clause 7.5.3
EARTH_SOLAR_ECLIPTIC	61	Solar ecliptic	WGS 1984	DBC SOLAR ECLIPTIC	Vicinity of Earth	BI AXIS-ORIGIN 3D	N/A	[HAPG]
EARTH_SOLAR-EQUATORIAL	62	Solar equatorial	WGS 1984	DBC SOLAR EQUATORIAL	Vicinity of Earth	BI AXIS-ORIGIN 3D	N/A	[CRUS]

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
EARTH_SOLAR_MAG-DIPOLE	63	Solar magnetic dipole	WGS 1984	DBC SOLAR MAGNETIC DIPOLE	Vicinity of Earth	BI_AXIS_ORIGIN_3D	N/A	[CRUS], [BHAV]
EARTH_SOLAR-MAGNETOSPHERIC	64	Solar magnetospheric	WGS 1984	DBC SOLAR MAGNETIC ECLIPTIC	Vicinity of Earth	BI_AXIS_ORIGIN_3D	N/A	[CRUS]

Table E.6 — Time fixed instances of a dynamic ERM specifications

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
GEOMAGNETIC_1945	83	Geomagnetic	WGS 1984	1945 DBC CELESTIOMAGNETIC Note: Object-fixed base epoch for the 5 year period 1945 to 1950.	Vicinity of Earth	BI_AXIS_ORIGIN_3D	N/A	[DAGF , Table I, "DGRF 1945"]
	RT Label	RT Code	RT Region	RT Parameters			Date published	References
	DGRF	1	Global (Earth)	$\Delta x = \Delta y = \Delta z = 0, \omega_1 = 0, \omega_2 = 90^\circ - \{\text{Latitude}\}^\circ : \text{unknown}, \omega_3 = 360^\circ - \{\text{Longitude}\}^\circ : \text{unknown}, \Delta s = 0$ Note: Centred dipole model northern pole.			1945	[DAGF , Table I, "DGRF 1945"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
GEOMAGNETIC_1950	84	Geomagnetic	WGS 1984	1950 DBC CELESTIOMAGNETIC Note: Object-fixed base epoch for the 5 year period 1950 to 1955.	Vicinity of Earth	BI_AXIS_ORIGIN_3D	N/A	[DAGF , Table I, "DGRF 1950"]
	RT Label	RT Code	RT Region	RT Parameters			Date published	References

	DGRF	1	Global (Earth)	$\Delta x = \Delta y = \Delta z = 0, \omega_1 = 0, \omega_2 = 90^\circ - \{\text{Latitude}\}^\circ : \text{unknown}, \omega_3 = 360^\circ - \{\text{Longitude}\}^\circ : \text{unknown}, \Delta s = 0$ Note: Centred dipole model northern pole.			1950	[DAGE, Table I, "DGRF 1950"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
GEOMAGNETIC_1955	85	Geomagnetic	WGS 1984	1955 DBC CELESTIOMAGNETIC Note: Object-fixed base epoch for the 5 year period 1955 to 1960.	Vicinity of Earth	BI AXIS ORIGIN 3D	N/A	[DAGE, Table I, "DGRF 1955"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
DGRF	1	Global (Earth)	$\Delta x = \Delta y = \Delta z = 0, \omega_1 = 0, \omega_2 = 90^\circ - \{\text{Latitude}\}^\circ : \text{unknown}, \omega_3 = 360^\circ - \{\text{Longitude}\}^\circ : \text{unknown}, \Delta s = 0$ Note: Centred dipole model northern pole.				1955	[DAGE, Table I, "DGRF 1955"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
GEOMAGNETIC_1960	86	Geomagnetic	WGS 1984	1960 DBC CELESTIOMAGNETIC Note: Object-fixed base epoch for the 5 year period 1960 to 1965.	Vicinity of Earth	BI AXIS ORIGIN 3D	N/A	[DAGE, Table I, "DGRF 1960"]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
DGRF	1	Global (Earth)	$\Delta x = \Delta y = \Delta z = 0, \omega_1 = 0, \omega_2 = 90^\circ - \{\text{Latitude}\}^\circ : \text{unknown}, \omega_3 = 360^\circ - \{\text{Longitude}\}^\circ : \text{unknown}, \Delta s = 0$ Note: Centred dipole model northern pole.				1960	[DAGE, Table I, "DGRF 1960"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
GEOMAGNETIC_1965	87	Geomagnetic	WGS 1984	1965 DBC CELESTIOMAGNETIC Note: Object-fixed base epoch for the 5 year period 1965 to 1970.	Vicinity of Earth	BI AXIS ORIGIN 3D	N/A	[DAGE, Table I, "DGRF 1965"]

RT Label	RT Code	RT Region	RT Parameters				Date published	References
DGRF	1	Global (Earth)	$\Delta x = \Delta y = \Delta z = 0$, $\omega_1 = 0$, $\omega_2 = 90^\circ - \{\text{Latitude}\}^\circ$: unknown, $\omega_3 = 360^\circ - \{\text{Longitude}\}^\circ$: unknown, $\Delta s = 0$ Note: Centred dipole model northern pole.				1965	[DAGE] , Table I, "DGRF 1965"
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
GEOMAGNETIC_1970	88	Geomagnetic	WGS_1984	1970 DBC CELESTIOMAGNETIC Note: Object-fixed base epoch for the 5 year period 1970 to 1975.	Vicinity of Earth	BI_AXIS_ORIGIN_3D	N/A	[DAGE] , Table I, "DGRF 1970"
RT Label	RT Code	RT Region	RT Parameters				Date published	References
DGRF	1	Global (Earth)	$\Delta x = \Delta y = \Delta z = 0$, $\omega_1 = 0$, $\omega_2 = 90^\circ - \{\text{Latitude}\}^\circ$: unknown, $\omega_3 = 360^\circ - \{\text{Longitude}\}^\circ$: unknown, $\Delta s = 0$ Note: Centred dipole model northern pole.				1970	[DAGE] , Table I, "DGRF 1970"
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
GEOMAGNETIC_1975	89	Geomagnetic	WGS_1984	1975 DBC CELESTIOMAGNETIC Note: Object-fixed base epoch for the 5 year period 1975 to 1980.	Vicinity of Earth	BI_AXIS_ORIGIN_3D	N/A	[DAGE] , Table I, "DGRF 1975"
RT Label	RT Code	RT Region	RT Parameters				Date published	References
DGRF	1	Global (Earth)	$\Delta x = \Delta y = \Delta z = 0$, $\omega_1 = 0$, $\omega_2 = 90^\circ - \{\text{Latitude}\}^\circ$: unknown, $\omega_3 = 360^\circ - \{\text{Longitude}\}^\circ$: unknown, $\Delta s = 0$ Note: Centred dipole model northern pole.				1975	[DAGE] , Table I, "DGRF 1975"
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References

GEOMAGNETIC_1980	90	Geomagnetic	WGS 1984	1980 DBC CELESTIOMAGNETIC Note: Object-fixed base epoch for the 5 year period 1980 to 1985.	Vicinity of Earth	BI_AXIS_ORIGIN_3D	N/A	[DAGF, Table I, "DGRF 1980"]
	RT Label	RT Code	RT Region	RT Parameters			Date published	References
	DGRF	1	Global (Earth)	$\Delta x = \Delta y = \Delta z = 0, \omega_1 = 0, \omega_2 = 90^\circ - \{\text{Latitude}\}^\circ : \text{unknown}, \omega_3 = 360^\circ - \{\text{Longitude}\}^\circ : \text{unknown}, \Delta s = 0$ Note: Centred dipole model northern pole.			1980	[DAGF, Table I, "DGRF 1980"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
GEOMAGNETIC_1985	91	Geomagnetic	WGS 1984	1985 DBC CELESTIOMAGNETIC Note: Object-fixed base epoch for the 5 year period 1985 to 1990.	Vicinity of Earth	BI_AXIS_ORIGIN_3D	N/A	[DAGF, Table I, "DGRF 1985"]
	RT Label	RT Code	RT Region	RT Parameters			Date published	References
	DGRF	1	Global (Earth)	$\Delta x = \Delta y = \Delta z = 0, \omega_1 = 0, \omega_2 = 90^\circ - \{\text{Latitude}\}^\circ : \text{unknown}, \omega_3 = 360^\circ - \{\text{Longitude}\}^\circ : \text{unknown}, \Delta s = 0$ Note: Centred dipole model northern pole.			1985	[DAGF, Table I, "DGRF 1985"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
GEOMAGNETIC_1990	92	Geomagnetic	WGS 1984	1990 DBC CELESTIOMAGNETIC Note: Object-fixed base epoch for the 5 year period 1990 to 1995.	Vicinity of Earth	BI_AXIS_ORIGIN_3D	N/A	[DAGF, Table I, "DGRF 1990"]
	RT Label	RT Code	RT Region	RT Parameters			Date published	References

	DGRF	1	Global (Earth)	$\Delta x = \Delta y = \Delta z = 0, \omega_1 = 0, \omega_2 = 90^\circ - \{\text{Latitude}\}^\circ : \text{unknown}, \omega_3 = 360^\circ - \{\text{Longitude}\}^\circ : \text{unknown}, \Delta s = 0$ Note: Centred dipole model northern pole.			1990	[DAGE] , Table I, "DGRF 1990"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References	
GEOMAGNETIC_1995	93	Geomagnetic	WGS_1984	1995 DBC CELESTIOMAGNETIC Note: Object-fixed base epoch for the 5 year period 1995 to 2000.	Vicinity of Earth	BI_AXIS_ORIGIN_3D	N/A	[DAGE] , Table I, "IGRF 1995"]	
RT Label	RT Code	RT Region	RT Parameters				Date published	References	
IGRF	1	Global (Earth)	$\Delta x = \Delta y = \Delta z = 0, \omega_1 = 0, \omega_2 = 90^\circ - \{\text{Latitude}\}^\circ : \text{unknown}, \omega_3 = 360^\circ - \{\text{Longitude}\}^\circ : \text{unknown}, \Delta s = 0$ Note: Centred dipole model northern pole.				1995	[DAGE] , Table I, "IGRF 1995"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References	
GEOMAGNETIC_2000	94	Geomagnetic	WGS_1984	2000 DBC CELESTIOMAGNETIC Note: Object-fixed base epoch for the 5 year period 2000 to 2005.	Vicinity of Earth	BI_AXIS_ORIGIN_3D	N/A	[DAGE] , Table I, "IGRF 2000"]	
RT Label	RT Code	RT Region	RT Parameters				Date published	References	
IGRF	1	Global (Earth)	$\Delta x = \Delta y = \Delta z = 0, \omega_1 = 0, \omega_2 = 90^\circ - \{\text{Latitude}\}^\circ : \text{unknown}, \omega_3 = 360^\circ - \{\text{Longitude}\}^\circ : \text{unknown}, \Delta s = 0$ Note: Centred dipole model northern pole.				2000	[DAGE] , Table I, "IGRF 2000"]	

Table E.7 — Object-fixed planet (non-Earth) ORM specifications

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
EROS_2000	68	Eros (asteroid 433)	This is the reference ORM for Eros (asteroid 433, a minor planet).	2000 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Eros"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Eros, Global	SPHERE	EROS_2000	[RIIC , Table III, "Eros"]
	RT Label	RT Code	RT Region	RT Parameters	Date published	References		
	IDENTITY	1	Global (Eros)	The reference ORM for Eros.	2000	[RIIC , Table III, "Eros"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
GASPRA_1991	80	Gaspra (asteroid 951)	This is the reference ORM for Gaspra (asteroid 951, a minor planet).	1991 The x-positive xz-half-plane as determined by an observable fixed surface feature and approximated by an ephemeris as specified in {Table II, "Gaspra"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Gaspra, Global	TRI_AXIAL_ELLIPSOID	GASPRA_1991	[RIIC , Table III, "Gaspra"]
	RT Label	RT Code	RT Region	RT Parameters	Date published	References		
	IDENTITY	1	Global (Gaspra)	The reference ORM for Gaspra.	1991	[RIIC , Table III, "Gaspra"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
IDA_1991	114	Ida (asteroid 243)	This is the reference ORM for Ida (asteroid 243, a minor planet).	1991 The x-positive xz-half-plane as determined by an observable fixed surface feature and approximated by an ephemeris as specified in {Table II, "Ida"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Ida, Global	TRI_AXIAL_ELLIPSOID	IDA_1991	[RIIC , Table III, "Ida"]

RT Label		RT Code	RT Region	RT Parameters	Date published	References		
IDENTITY		1	Global (Ida)	The reference ORM for Ida.	1991	[RIIC, Table III, "Ida"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
JUPITER_1988	131	Jupiter	This is the reference ORM for Jupiter (a planet).	1988 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table I, "Jupiter"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Jupiter, Global	OBLATE ELLIPSOID	JUPITER_1988	[RIIC, Table I, "Jupiter"]
RT Label		RT Code	RT Region	RT Parameters	Date published	References		
IDENTITY		1	Global (Jupiter)	The reference ORM for Jupiter.	2000	[RIIC, Table I, "Jupiter"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
MARS_2000	154	Mars	This is the reference ORM for Mars (a planet).	2000 The x-positive xz-half-plane as determined by an observable fixed surface feature and approximated by an ephemeris as specified in {Table I, "Mars"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Mars, Global	OBLATE ELLIPSOID	MARS_2000	[RIIC, Table I, "Mars"]
RT Label		RT Code	RT Region	RT Parameters	Date published	References		
IDENTITY		1	Global (Mars)	The reference ORM for Mars.	2000	[RIIC, Table I, "Mars"]		

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
MARS_SPHERE_2000	156	Mars (spherical)	MARS_2000	2000 The x-positive xz-half-plane as determined by an observable fixed surface feature and approximated by an ephemeris as specified in {Table I, "Mars"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Mars, Global	SPHERE	MARS_SPHERE_2000	[RIIC , Table I, "Mars"]
	RT Label	RT Code	RT Region	RT Parameters		Date published	References	
	GLOBAL	1	Global (Mars)	$\Delta x = \Delta y = \Delta z = 0, \omega_1 = \omega_2 = \omega_3 = 0, \Delta s = 0$		2000	[RIIC , Table I, "Mars"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
MERCURY_1988	160	Mercury	This is the reference ORM for Mercury (a planet).	1988 The x-positive xz-half-plane as determined by an observable fixed surface feature and approximated by an ephemeris as specified in {Table I, "Mercury"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Mercury, Global	SPHERE	MERCURY_1988	[RIIC , Table I, "Mercury"]
	RT Label	RT Code	RT Region	RT Parameters		Date published	References	
	IDENTITY	1	Global (Mercury)	The reference ORM for Mercury.		1988	[RIIC , Table I, "Mercury"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
NEPTUNE_1991	182	Neptune	This is the reference ORM for Neptune (a planet).	1991 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table I, "Neptune"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Neptune, Global	OBLATE_ELLIPSOID	NEPTUNE_1991	[RIIC , Table I, "Neptune"]
	RT Label	RT Code	RT Region	RT Parameters		Date published	References	

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
IDENTITY		1	Global (Neptune)	The reference ORM for Neptune.		1991	[RIIC, Table I, "Neptune"]	
PLUTO_1994	202	Pluto	This is the reference ORM for Pluto (a planet).	1994 The x-positive xz-half-plane as determined by an observable fixed surface feature and approximated by an ephemeris as specified in {Table I, "Pluto"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Pluto, Global	SPHERE	PLUTO 1994	[RIIC, Table I, "Pluto"]
RT Label		RT Code	RT Region	RT Parameters		Date published	References	
IDENTITY		1	Global (Pluto)	The reference ORM for Pluto.		1994	[RIIC, Table I, "Pluto"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
SATURN_1988	233	Saturn	This is the reference ORM for Saturn (a planet).	1988 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table I, "Saturn"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Saturn, Global	OBLATE ELLIPSOID	SATURN 1988	[RIIC, Table I, "Saturn"]
RT Label		RT Code	RT Region	RT Parameters		Date published	References	
IDENTITY		1	Global (Saturn)	The reference ORM for Saturn.		1991	[RIIC, Table I, "Saturn"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
URANUS_1988	261	Uranus	This is the reference ORM for Uranus (a planet).	1988 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table I, "Uranus"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Uranus, Global	OBLATE ELLIPSOID	URANUS 1988	[RIIC, Table I, "Uranus"]
RT Label		RT Code	RT Region	RT Parameters		Date published	References	
IDENTITY		1	Global (Uranus)	The reference ORM for Uranus.		1988	[RIIC, Table I, "Uranus"]	

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
VENUS_1991	264	Venus	This is the reference ORM for Venus (a planet).	1991 The x-positive xz-half-plane as determined by an observable fixed surface feature and approximated by an ephemeris as specified in {Table I, "Venus"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Venus, Global	SPHERE	VENUS_1991	[RIIC , Table I, "Venus"]
RT Label	RT Code	RT Region	RT Parameters	Date published	References			
IDENTITY	1	Global (Venus)	The reference ORM for Venus.	1991	[RIIC , Table I, "Venus"]			

Table E.8 — Dynamic planet (non-Earth) ORM specifications

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
JUPITER_INERTIAL	132	Jupiter equatorial inertial	JUPITER_1988	DBC EQUATORIAL INERTIAL Note: Vernal equinox, true of date.	Vicinity of Jupiter	BI_AXIS_ORIGIN_3D	N/A	Clause 7.5.3
JUPITER_SOLAR_ECLIPTIC	134	Jupiter solar ecliptic	JUPITER_1988	DBC SOLAR ECLIPTIC	Vicinity of Jupiter	BI_AXIS_ORIGIN_3D	N/A	[HAPG]
JUPITER_SOLAR_EQUATORIAL	135	Jupiter solar equatorial	JUPITER_1988	DBC SOLAR EQUATORIAL	Vicinity of Jupiter	BI_AXIS_ORIGIN_3D	N/A	[CRUS]
JUPITER_SOLAR_MAG_DIPOLE	136	Jupiter solar magnetic dipole	JUPITER_1988	DBC SOLAR MAGNETIC DIPOLE	Vicinity of Jupiter	BI_AXIS_ORIGIN_3D	N/A	[CRUS], [BHAV]

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
JUPITER_SOLAR_MAG-ECLIPTIC	137	Jupiter solar magnetic ecliptic	JUPITER 1988	DBC SOLAR MAGNETIC ECLIPTIC	Vicinity of Jupiter	BI AXIS ORIGIN 3D	N/A	[CRUS]
MARS_INERTIAL	155	Mars equatorial inertial	MARS 2000	DBC EQUATORIAL INERTIAL Note: Vernal equinox, true of date.	Vicinity of Mars	BI AXIS ORIGIN 3D	N/A	Clause 7.5.3
MERCURY_INERTIAL	161	Mercury equatorial inertial	MERCURY 1988	DBC EQUATORIAL INERTIAL Note: Vernal equinox, true of date.	Vicinity of Mercury	BI AXIS ORIGIN 3D	N/A	Clause 7.5.3
NEPTUNE_INERTIAL	183	Neptune equatorial inertial	NEPTUNE 1991	DBC EQUATORIAL INERTIAL Note: Vernal equinox, true of date.	Vicinity of Neptune	BI AXIS ORIGIN 3D	N/A	Clause 7.5.3
PLUTO_INERTIAL	203	Pluto equatorial inertial	PLUTO 1994	DBC EQUATORIAL INERTIAL Note: Vernal equinox, true of date.	Vicinity of Pluto	BI AXIS ORIGIN 3D	N/A	Clause 7.5.3
SATURN_INERTIAL	234	Saturn equatorial inertial	SATURN 1988	DBC EQUATORIAL INERTIAL Note: Vernal equinox, true of date.	Vicinity of Saturn	BI AXIS ORIGIN 3D	N/A	Clause 7.5.3
URANUS_INERTIAL	262	Uranus equatorial inertial	URANUS 1988	DBC EQUATORIAL INERTIAL Note: Vernal equinox, true of date.	Vicinity of Uranus	BI AXIS ORIGIN 3D	N/A	Clause 7.5.3
VENUS_INERTIAL	265	Venus equatorial inertial	VENUS 1991	DBC EQUATORIAL INERTIAL Note: Vernal equinox, true of date.	Vicinity of Venus	BI AXIS ORIGIN 3D	N/A	Clause 7.5.3

Table E.9 — Time fixed instance of a dynamic planet (non-Earth) ORM specifications

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
JUPITER_MAGNETIC_1993	133	Jupiter magnetic	JUPITER 1988	1992 DBC CELESTIOMAGNETIC Note: Object-fixed based on the "eccentric dipoles" of an octopole representation of a sixth degree and order field (O_6) model that was derived from empirical measurements made by the Pioneer 10/11 and Voyager 1/2 spacecraft.	Vicinity of Jupiter	BI_AXIS_ORIGIN_3D	N/A	[MFOP , Table 5, "Jupiter"]
	RT Label	RT Code	RT Region	RT Parameters			Date published	References
	VOYAGER	1	Global (Jupiter)	$\Delta x = \Delta y = \Delta z = 0, \omega_1 = 0, \omega_2 = \{\theta, \text{deg}\} : \text{unknown}, \omega_3 = 360^\circ - \{\phi, \text{deg}\} : \text{unknown}, \Delta s = 0$			1993	[MFOP , Table 5, "Jupiter"]
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References

NEPTUNE_MAGNETIC_1993	184	Neptune magnetic	NEPTUNE 1991	1993 DBC CELESTIOMAGNETIC Note: Object-fixed based on the "eccentric dipoles" of an octopole representation of an eighth degree field (O_8) model that was derived from empirical measurements made by the Voyager 2 spacecraft.	Vicinity of Neptune	BI AXIS ORIGIN 3D	N/A	[MFOP, Table 5, "Neptune"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	
VOYAGER	1	Global (Neptune)	$\Delta x = \Delta y = \Delta z = 0, \omega_1 = 0, \omega_2 = \{\theta, \text{deg}\} : \text{unknown}, \omega_3 = 360^\circ - \{\phi, \text{deg}\} : \text{unknown}, \Delta s = 0$			1993	[MFOP, Table 5, "Neptune"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
SATURN_MAGNETIC_1993	235	Saturn magnetic	SATURN 1988	1993 DBC CELESTIOMAGNETIC Note: Object-fixed based on the "eccentric dipoles" of a Z_3 zonal harmonic model that was derived from empirical measurements made by the Pioneer 11 and Voyager 1/2 spacecraft.	Vicinity of Saturn	BI AXIS ORIGIN 3D	N/A	[MFOP, Table 5, "Saturn"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	
VOYAGER	1	Global (Saturn)	$\Delta x = \Delta y = \Delta z = 0, \omega_1 = 0, \omega_2 = \{\theta, \text{deg}\} : < 0, 1^\circ \text{ (page 18 667)}, \omega_3 = 360^\circ - \{\phi, \text{deg}\} : \text{N/A}, \Delta s = 0$			1993	[MFOP, Table 5, "Saturn"]	

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
URANUS_MAGNETIC_1993	263	Uranus magnetic	URANUS 1988	1993 DBC CELESTIOMAGNETIC Note: Object-fixed based on the "eccentric dipoles" of an Q ₃ model that was derived from empirical measurements made by the Voyager 2 spacecraft.	Vicinity of Uranus	BI_AXIS_ORIGIN_3D	N/A	[MFOP, Table 5, "Uranus"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	
VOYAGER	1	Global (Uranus)	$\Delta x = \Delta y = \Delta z = 0, \omega_1 = 0, \omega_2 = \{\theta, \text{deg}\} : \text{unknown}, \omega_3 = 360^\circ - \{\phi, \text{deg}\} : \text{unknown}, \Delta s = 0$			1993	[MFOP, Table 5, "Uranus"]	

Table E.10 — Object-fixed satellite ORM specifications

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
ADRASTEIA_2000	4	Adrasteia	This is the reference ORM for Adrasteia (a satellite of Jupiter).	2000 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Adrasteia"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Adrasteia, Global	TRI_AXIAL_ELLIPSOID	ADRASTEIA_2000	[RIIC, Table II, "Adrasteia"]
RT Label	RT Code	RT Region	RT Parameters			Date published	References	
IDENTITY	1	Global (Adrasteia)	The reference ORM for Adrasteia.			2000	[RIIC, Table II, "Adrasteia"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References

AMALTHEA_2000	7	Amalthea	This is the reference ORM for Amalthea (a satellite of Jupiter).	2000 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Amalthea"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Amalthea, Global	TRI AXIAL ELLIPSOID	AMALTHEA_2000	[RIIC, Table II, "Amalthea"]	
	RT Label	RT Code	RT Region	RT Parameters		Date published	References		
	IDENTITY	1	Global (Amalthea)	The reference ORM for Amalthea.		2000	[RIIC, Table II, "Amalthea"]		
Label	Code	Published name	Reference ORM	Binding information		Region	ORMT	RD parameterization	References
ARIEL_1988	14	Ariel	This is the reference ORM for Ariel (a satellite of Uranus).	1988 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Ariel"}, with its associated accuracy as specified in {Section 2, paragraph 5}.		Ariel, Global	SPHERE	ARIEL_1988	[RIIC, Table II, "Ariel"]
	RT Label	RT Code	RT Region	RT Parameters		Date published	References		
	IDENTITY	1	Global (Ariel)	The reference ORM for Ariel.		1988	[RIIC, Table II, "Ariel"]		
Label	Code	Published name	Reference ORM	Binding information		Region	ORMT	RD parameterization	References
ATLAS_1988	16	Atlas	This is the reference ORM for Atlas (a satellite of Saturn).	1988 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Atlas"}, with its associated accuracy as specified in {Section 2, paragraph 5}.		Atlas, Global	OBLATE ELLIPSOID	ATLAS_1988	[RIIC, Table II, "Atlas"]
	RT Label	RT Code	RT Region	RT Parameters		Date published	References		
	IDENTITY	1	Global (Atlas)	The reference ORM for Atlas.		1988	[RIIC, Table II, "Atlas"]		
Label	Code	Published name	Reference ORM	Binding information		Region	ORMT	RD parameterization	References

BELINDA_1988	22	Belinda	This is the reference ORM for Belinda (a satellite of Uranus).	1988 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Belinda"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Belinda, Global	SPHERE	BELINDA_1988	[RIIC, Table II, "Belinda"]
	RT Label	RT Code	RT Region	RT Parameters	Date published	References		
	IDENTITY	1	Global (Belinda)	The reference ORM for Belinda.	1988	[RIIC, Table II, "Belinda"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
BIANCA_1988	27	Bianca	This is the reference ORM for Bianca (a satellite of Uranus).	1988 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Bianca"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Bianca, Global	SPHERE	BIANCA_1988	[RIIC, Table II, "Bianca"]
	RT Label	RT Code	RT Region	RT Parameters	Date published	References		
	IDENTITY	1	Global (Bianca)	The reference ORM for Bianca.	1988	[RIIC, Table II, "Bianca"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
CALLISTO_2000	32	Callisto	This is the reference ORM for Callisto (a satellite of Jupiter).	2000 The x-positive xz-half-plane as determined by an observable fixed surface feature and approximated by an ephemeris as specified in {Table II, "Callisto"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Callisto, Global	SPHERE	CALLISTO_2000	[RIIC, Table II, "Callisto"]
	RT Label	RT Code	RT Region	RT Parameters	Date published	References		
	IDENTITY	1	Global (Callisto)	The reference ORM for Callisto.	1988	[RIIC, Table II, "Bianca"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References

CALYPSO_1988	33	Calypso	This is the reference ORM for Calypso (a satellite of Saturn).	1988 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Calypso"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Calypso, Global	TRI AXIAL ELLIPSOID	CALYPSO 1988	[RIIC, Table II, "Calypso"]
	RT Label	RT Code	RT Region	RT Parameters	Date published	References		
	IDENTITY	1	Global (Calypso)	The reference ORM for Calypso.	2000	[RIIC, Table II, "Calypso"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
CHARON_1991	40	Charon	This is the reference ORM for Charon (a satellite of Pluto).	1991 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Charon"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Charon, Global	SPHERE	CHARON 1991	[RIIC, Table II, "Charon"]
	RT Label	RT Code	RT Region	RT Parameters	Date published	References		
	IDENTITY	1	Global (Charon)	The reference ORM for Charon.	1991	[RIIC, Table II, "Charon"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
CORDELIA_1988	44	Cordelia	This is the reference ORM for Cordelia (a satellite of Uranus).	1988 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Cordelia"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Cordelia, Global	SPHERE	CORDELIA 1988	[RIIC, Table II, "Cordelia"]
	RT Label	RT Code	RT Region	RT Parameters	Date published	References		
	IDENTITY	1	Global (Cordelia)	The reference ORM for Cordelia.	1988	[RIIC, Table II, "Cordelia"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References

CRESSIDA_1988	46	Cressida	This is the reference ORM for Cressida (a satellite of Uranus).	1988 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Cressida"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Cressida, Global	SPHERE	CRESSIDA_1988	[RIIC, Table II, "Cressida"]
	RT Label	RT Code	RT Region	RT Parameters	Date published	References		
	IDENTITY	1	Global (Cressida)	The reference ORM for Cressida.	1988	[RIIC, Table II, "Cressida"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
DEIMOS_1988	50	Deimos	This is the reference ORM for Deimos (a satellite of Mars).	1988 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Deimos"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Deimos, Global	TRI AXIAL ELLIPSOID	DEIMOS_1988	[RIIC, Table II, "Deimos"]
	RT Label	RT Code	RT Region	RT Parameters	Date published	References		
	IDENTITY	1	Global (Deimos)	The reference ORM for Deimos.	1988	[RIIC, Table II, "Deimos"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
DESDEMONA_1988	51	Desdemona	This is the reference ORM for Desdemona (a satellite of Uranus).	1988 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Desdemona"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Desdemona, Global	SPHERE	DESDEMONA_1988	[RIIC, Table II, "Desdemona"]
	RT Label	RT Code	RT Region	RT Parameters	Date published	References		
	IDENTITY	1	Global (Desdemona)	The reference ORM for Desdemona.	2000	[RIIC, Table II, "Desdemona"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References

DESPINA_1991	52	Despina	This is the reference ORM for Despina (a satellite of Neptune).	1991 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Despina"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Despina, Global	SPHERE	DESPINA_1991	[RIIC, Table II, "Despina"]
	RT Label	RT Code	RT Region	RT Parameters	Date published	References		
	IDENTITY	1	Global (Despina)	The reference ORM for Despina.	1991	[RIIC, Table II, "Despina"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
DIONE_1982	53	Dione	This is the reference ORM for Dione (a satellite of Saturn).	1982 The x-positive xz-half-plane as determined by an observable fixed surface feature and approximated by an ephemeris as specified in {Table II, "Dione"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Dione, Global	SPHERE	DIONE_1982	[RIIC, Table II, "Dione"]
	RT Label	RT Code	RT Region	RT Parameters	Date published	References		
	IDENTITY	1	Global (Dione)	The reference ORM for Dione.	2000	[RIIC, Table II, "Dione"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
ENCELADUS_1994	66	Enceladus	This is the reference ORM for Enceladus (a satellite of Saturn).	1994 The x-positive xz-half-plane as determined by an observable fixed surface feature and approximated by an ephemeris as specified in {Table II, "Enceladus"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Enceladus, Global	SPHERE	ENCELADUS_1994	[RIIC, Table II, "Enceladus"]
	RT Label	RT Code	RT Region	RT Parameters	Date published	References		
	IDENTITY	1	Global (Enceladus)	The reference ORM for Enceladus.	1994	[RIIC, Table II, "Enceladus"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References

EPIMETHEUS_1988	67	Epimetheus	This is the reference ORM for Epimetheus (a satellite of Saturn).	1988 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Epimetheus"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Epimetheus, Global	TRI AXIAL ELLIPSOID	EPIMETHEUS_1988	[RIIC, Table II, "Epimetheus"]
RT Label		RT Code	RT Region	RT Parameters	Date published	References		
IDENTITY		1	Global (Epimetheus)	The reference ORM for Epimetheus.	2000	[RIIC, Table II, "Epimetheus"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
EUROPA_2000	71	Europa	This is the reference ORM for Europa (a satellite of Jupiter).	2000 The x-positive xz-half-plane as determined by an observable fixed surface feature and approximated by an ephemeris as specified in {Table II, "Europa"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Europa, Global	SPHERE	EUROPA_2000	[RIIC, Table II, "Europa"]
RT Label		RT Code	RT Region	RT Parameters	Date published	References		
IDENTITY		1	Global (Europa)	The reference ORM for Europa.	2000	[RIIC, Table II, "Europa"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
GALATEA_1991	76	Galatea	This is the reference ORM for Galatea (a satellite of Neptune).	1991 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Galatea"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Galatea, Global	SPHERE	GALATEA_1991	[RIIC, Table II, "Galatea"]
RT Label		RT Code	RT Region	RT Parameters	Date published	References		
IDENTITY		1	Global (Galatea)	The reference ORM for Galatea.	1991	[RIIC, Table II, "Galatea"]		

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
GANYMEDE_2000	78	Ganymede	This is the reference ORM for Ganymede (a satellite of Jupiter).	2000 The x-positive xz-half-plane as determined by an observable fixed surface feature and approximated by an ephemeris as specified in {Table II, "Ganymede"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Ganymede, Global	SPHERE	GANYMEDE_2000	[RIIC, Table II, "Ganymede"]
	RT Label	RT Code	RT Region	RT Parameters		Date published	References	
	IDENTITY	1	Global (Ganymede)	The reference ORM for Ganymede.		2000	[RIIC, Table II, "Ganymede"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
HELENE_1992	101	Helene	This is the reference ORM for Helene (a satellite of Saturn).	1992 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Helene"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Helene, Global	TRI_AXIAL_ELLIPSOID	HELENE_1992	[RIIC, Table II, "Helene"]
	RT Label	RT Code	RT Region	RT Parameters		Date published	References	
	IDENTITY	1	Global (Helene)	The reference ORM for Helene.		1992	[RIIC, Table II, "Helene"]	
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
IAPETUS_1988	113	Iapetus	This is the reference ORM for Iapetus (a satellite of Saturn).	1988 The x-positive xz-half-plane as determined by an observable fixed surface feature and approximated by an ephemeris as specified in {Table II, "Iapetus"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Iapetus, Global	SPHERE	IAPETUS_1988	[RIIC, Table II, "Iapetus"]
	RT Label	RT Code	RT Region	RT Parameters		Date published	References	
	IDENTITY	1	Global (Iapetus)	The reference ORM for Iapetus.		2000	[RIIC, Table II, "Iapetus"]	

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
IO_2000	122	Io	This is the reference ORM for Io (a satellite of Jupiter).	2000 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Io"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Io, Global	SPHERE	IO_2000	[RIIC , Table II, "Io"]

RT Label	RT Code	RT Region	RT Parameters	Date published	References
IDENTITY	1	Global (Io)	The reference ORM for Io.	2000	[RIIC , Table II, "Io"]

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
JANUS_1988	127	Janus	This is the reference ORM for Janus (a satellite of Saturn).	1988 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Janus"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Janus, Global	TRI_AXIAL_ELLIPSOID	JANUS_1988	[RIIC , Table II, "Janus"]

RT Label	RT Code	RT Region	RT Parameters	Date published	References
IDENTITY	1	Global (Janus)	The reference ORM for Janus.	2000	[RIIC , Table II, "Janus"]

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
JULIET_1988	130	Juliet	This is the reference ORM for Juliet (a satellite of Uranus).	1988 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Juliet"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Juliet, Global	SPHERE	JULIET_1988	[RIIC , Table II, "Juliet"]

RT Label	RT Code	RT Region	RT Parameters	Date published	References
IDENTITY	1	Global (Juliet)	The reference ORM for Juliet.	2000	[RIIC , Table II, "Juliet"]

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
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LARISSA_1991	144	Larissa	This is the reference ORM for Larissa (a satellite of Neptune).	1991 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Larissa"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Larissa, Global	OBLATE ELLIPSOID	LARISSA_1991	[RIIC, Table II, "Larissa"]
	RT Label	RT Code	RT Region	RT Parameters	Date published	References		
	IDENTITY	1	Global (Larissa)	The reference ORM for Larissa.	1991	[RIIC, Table II, "Larissa"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
METIS_2000	162	Metis	This is the reference ORM for Metis (a satellite of Jupiter).	2000 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Metis"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Metis, Global	SPHERE	METIS_2000	[RIIC, Table II, "Metis"]
	RT Label	RT Code	RT Region	RT Parameters	Date published	References		
	IDENTITY	1	Global (Metis)	The reference ORM for Metis.	2000	[RIIC, Table II, "Metis"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
MIMAS_1994	164	Mimas	This is the reference ORM for Mimas (a satellite of Saturn).	1994 The x-positive xz-half-plane as determined by an observable fixed surface feature and approximated by an ephemeris as specified in {Table II, "Mimas"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Mimas, Global	SPHERE	MIMAS_1994	[RIIC, Table II, "Mimas"]
	RT Label	RT Code	RT Region	RT Parameters	Date published	References		
	IDENTITY	1	Global (Mimas)	The reference ORM for Mimas.	1994	[RIIC, Table II, "Mimas"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References

MIRANDA_1988	166	Miranda	This is the reference ORM for Miranda (a satellite of Uranus).	1988 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Miranda"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Miranda, Global	SPHERE	MIRANDA_1988	[RIIC, Table II, "Miranda"]
	RT Label	RT Code	RT Region	RT Parameters	Date published	References		
	IDENTITY	1	Global (Miranda)	The reference ORM for Miranda.	1988	[RIIC, Table II, "Miranda"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
MOON_1991	174	Moon	This is the reference ORM for Moon (a satellite of Earth).	1991 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Moon"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Moon, Global	SPHERE	MOON_1991	[RIIC, Table II, "Moon"]
	RT Label	RT Code	RT Region	RT Parameters	Date published	References		
	IDENTITY	1	Global (Moon)	The reference ORM for Moon.	1991	[RIIC, Table II, "Moon"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
NAIAD_1991	180	Naiad	This is the reference ORM for Naiad (a satellite of Neptune).	1991 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Naiad"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Naiad, Global	SPHERE	NAIAD_1991	[RIIC, Table II, "Naiad"]
	RT Label	RT Code	RT Region	RT Parameters	Date published	References		
	IDENTITY	1	Global (Naiad)	The reference ORM for Naiad.	1991	[RIIC, Table II, "Naiad"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
OBERON_1988	188	Oberon	This is the reference ORM for Oberon (a satellite of Uranus).	1988 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Oberon"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Oberon, Global	SPHERE	OBERON_1988	[RIIC, Table II, "Oberon"]

RT Label		RT Code	RT Region	RT Parameters	Date published	References		
IDENTITY		1	Global (Oberon)	The reference ORM for Oberon.	1988	[RIIC, Table II, "Oberon"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
OPHELIA_1988	193	Ophelia	This is the reference ORM for Ophelia (a satellite of Uranus).	1988 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Ophelia"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Ophelia, Global	SPHERE	OPHELIA_1988	[RIIC, Table II, "Ophelia"]
RT Label		RT Code	RT Region	RT Parameters	Date published	References		
IDENTITY		1	Global (Ophelia)	The reference ORM for Ophelia.	1988	[RIIC, Table II, "Ophelia"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
PAN_1991	196	Pan	This is the reference ORM for Pan (a satellite of Saturn).	1991 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Pan"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Pan, Global	SPHERE	PAN_1991	[RIIC, Table II, "Pan"]
RT Label		RT Code	RT Region	RT Parameters	Date published	References		
IDENTITY		1	Global (Pan)	The reference ORM for Pan.	1991	[RIIC, Table II, "Pan"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
PANDORA_1988	197	Pandora	This is the reference ORM for Pandora (a satellite of Saturn).	1988 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Pandora"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Pandora, Global	TRI_AXIAL_ELLIPSOID	PANDORA_1988	[RIIC, Table II, "Pandora"]
RT Label		RT Code	RT Region	RT Parameters	Date published	References		
IDENTITY		1	Global (Pandora)	The reference ORM for Pandora.	1988	[RIIC, Table II, "Pandora"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References

PHOBOS_1988	198	Phobos	This is the reference ORM for Phobos (a satellite of Mars).	1988 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Phobos"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Phobos, Global	TRI AXIAL ELLIPSOID	PHOBOS_1988	[RIIC, Table II, "Phobos"]
	RT Label	RT Code	RT Region	RT Parameters	Date published	References		
	IDENTITY	1	Global (Phobos)	The reference ORM for Phobos.	1988	[RIIC, Table II, "Phobos"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
PHOEBE_1988	199	Phoebe	This is the reference ORM for Phoebe (a satellite of Saturn).	1988 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Phoebe"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Phoebe, Global	SPHERE	PHOEBE_1988	[RIIC, Table II, "Phoebe"]
	RT Label	RT Code	RT Region	RT Parameters	Date published	References		
	IDENTITY	1	Global (Phoebe)	The reference ORM for Phoebe.	1988	[RIIC, Table II, "Phoebe"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
PORTIA_1988	206	Portia	This is the reference ORM for Portia (a satellite of Uranus).	1988 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Portia"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Portia, Global	SPHERE	PORTIA_1988	[RIIC, Table II, "Portia"]
	RT Label	RT Code	RT Region	RT Parameters	Date published	References		
	IDENTITY	1	Global (Portia)	The reference ORM for Portia.	1988	[RIIC, Table II, "Portia"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References

PROMETHEUS_1988	208	Prometheus	This is the reference ORM for Prometheus (a satellite of Saturn).	1988 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Prometheus"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Prometheus, Global	TRI AXIAL ELLIPSOID	PROMETHEUS 1988	[RIIC, Table II, "Prometheus"]
RT Label		RT Code	RT Region	RT Parameters	Date published	References		
IDENTITY		1	Global (Prometheus)	The reference ORM for Prometheus.	1988	[RIIC, Table II, "Prometheus"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
PROTEUS_1991	209	Proteus	This is the reference ORM for Proteus (a satellite of Neptune).	1991 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Proteus"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Proteus, Global	TRI AXIAL ELLIPSOID	PROTEUS 1991	[RIIC, Table II, "Proteus"]
RT Label		RT Code	RT Region	RT Parameters	Date published	References		
IDENTITY		1	Global (Proteus)	The reference ORM for Proteus.	1991	[RIIC, Table II, "Proteus"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
PUCK_1988	212	Puck	This is the reference ORM for Puck (a satellite of Uranus).	1988 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Puck"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Puck, Global	SPHERE	PUCK 1988	[RIIC, Table II, "Puck"]

RT Label		RT Code	RT Region	RT Parameters	Date published	References		
IDENTITY		1	Global (Puck)	The reference ORM for Puck.	1988	[RIIC, Table II, "Puck"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
RHEA_1988	220	Rhea	This is the reference ORM for Rhea (a satellite of Saturn).	1988 The x-positive xz-half-plane as determined by an observable fixed surface feature and approximated by an ephemeris as specified in {Table II, "Rhea"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Rhea, Global	SPHERE	RHEA_1988	[RIIC, Table II, "Rhea"]
RT Label		RT Code	RT Region	RT Parameters	Date published	References		
IDENTITY		1	Global (Rhea)	The reference ORM for Rhea.	1988	[RIIC, Table II, "Rhea"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
ROSALIND_1988	223	Rosalind	This is the reference ORM for Rosalind (a satellite of Uranus).	1988 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Rosalind"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Rosalind, Global	SPHERE	ROSALIND_1988	[RIIC, Table II, "Rosalind"]
RT Label		RT Code	RT Region	RT Parameters	Date published	References		
IDENTITY		1	Global (Rosalind)	The reference ORM for Rosalind.	1988	[RIIC, Table II, "Rosalind"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
TELESTO_1988	246	Telesto	This is the reference ORM for Telesto (a satellite of Saturn).	1988 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Telesto"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Telesto, Global	TRI_AXIAL_ELLIPSOID	TELESTO_1988	[RIIC, Table II, "Telesto"]
RT Label		RT Code	RT Region	RT Parameters	Date published	References		

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References												
TETHYS_1991	248	Tethys	This is the reference ORM for Tethys (a satellite of Saturn).	1991 The x-positive xz-half-plane as determined by an observable fixed surface feature and approximated by an ephemeris as specified in {Table II, "Tethys"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Tethys, Global	SPHERE	TETHYS 1991	[RIIC, Table II, "Tethys"]												
<table border="1"> <thead> <tr> <th>RT Label</th> <th>RT Code</th> <th>RT Region</th> <th>RT Parameters</th> <th>Date published</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>IDENTITY</td> <td>1</td> <td>Global (Tethys)</td> <td>The reference ORM for Tethys.</td> <td>1991</td> <td>[RIIC, Table II, "Tethys"]</td> </tr> </tbody> </table>									RT Label	RT Code	RT Region	RT Parameters	Date published	References	IDENTITY	1	Global (Tethys)	The reference ORM for Tethys.	1991	[RIIC, Table II, "Tethys"]
RT Label	RT Code	RT Region	RT Parameters	Date published	References															
IDENTITY	1	Global (Tethys)	The reference ORM for Tethys.	1991	[RIIC, Table II, "Tethys"]															
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References												
THALASSA_1991	249	Thalassa	This is the reference ORM for Thalassa (a satellite of Neptune).	1991 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Thalassa"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Thalassa, Global	SPHERE	THALASSA 1991	[RIIC, Table II, "Thalassa"]												
<table border="1"> <thead> <tr> <th>RT Label</th> <th>RT Code</th> <th>RT Region</th> <th>RT Parameters</th> <th>Date published</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>IDENTITY</td> <td>1</td> <td>Global (Thalassa)</td> <td>The reference ORM for Thalassa.</td> <td>1991</td> <td>[RIIC, Table II, "Thalassa"]</td> </tr> </tbody> </table>									RT Label	RT Code	RT Region	RT Parameters	Date published	References	IDENTITY	1	Global (Thalassa)	The reference ORM for Thalassa.	1991	[RIIC, Table II, "Thalassa"]
RT Label	RT Code	RT Region	RT Parameters	Date published	References															
IDENTITY	1	Global (Thalassa)	The reference ORM for Thalassa.	1991	[RIIC, Table II, "Thalassa"]															
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References												
THEBE_2000	250	Thebe	This is the reference ORM for Thebe (a satellite of Jupiter).	2000 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Thebe"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Thebe, Global	OBLATE ELLIPSOID	THEBE 2000	[RIIC, Table II, "Thebe"]												
<table border="1"> <thead> <tr> <th>RT Label</th> <th>RT Code</th> <th>RT Region</th> <th>RT Parameters</th> <th>Date published</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>IDENTITY</td> <td>1</td> <td>Global (Thebe)</td> <td>The reference ORM for Thebe.</td> <td>2000</td> <td>[RIIC, Table II, "Thebe"]</td> </tr> </tbody> </table>									RT Label	RT Code	RT Region	RT Parameters	Date published	References	IDENTITY	1	Global (Thebe)	The reference ORM for Thebe.	2000	[RIIC, Table II, "Thebe"]
RT Label	RT Code	RT Region	RT Parameters	Date published	References															
IDENTITY	1	Global (Thebe)	The reference ORM for Thebe.	2000	[RIIC, Table II, "Thebe"]															
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References												

TITAN_1982	255	Titan	This is the reference ORM for Titan (a satellite of Saturn).	1982 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Titan"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Titan, Global	SPHERE	TITAN_1982	[RIIC, Table II, "Titan"]
	RT Label	RT Code	RT Region	RT Parameters	Date published	References		
	IDENTITY	1	Global (Titan)	The reference ORM for Titan.	1988	[RIIC, Table II, "Titan"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
TITANIA_1988	256	Titania	This is the reference ORM for Titania (a satellite of Uranus).	1988 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Titania"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Titania, Global	SPHERE	TITANIA_1988	[RIIC, Table II, "Titania"]
	RT Label	RT Code	RT Region	RT Parameters	Date published	References		
	IDENTITY	1	Global (Titania)	The reference ORM for Titania.	1988	[RIIC, Table II, "Titania"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
TRITON_1991	259	Triton	This is the reference ORM for Triton (a satellite of Neptune).	1991 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Triton"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Triton, Global	SPHERE	TRITON_1991	[RIIC, Table II, "Triton"]
	RT Label	RT Code	RT Region	RT Parameters	Date published	References		
	IDENTITY	1	Global (Triton)	The reference ORM for Triton.	1991	[RIIC, Table II, "Triton"]		
Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
UMBRIEL_1988	260	Umbriel	This is the reference ORM for Umbriel (a satellite of Uranus).	1988 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table II, "Umbriel"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Umbriel, Global	SPHERE	UMBRIEL_1988	[RIIC, Table II, "Umbriel"]

RT Label	RT Code	RT Region	RT Parameters	Date published	References
IDENTITY	1	Global (Umbriel)	The reference ORM for Umbriel.	1988	[RIIC, Table II, "Umbriel"]

Table E.11 — Dynamic satellite ORM specifications

In this International Standard, there are no dynamic satellite ORM specifications, therefore this table is empty.

Table E.12 — Time fixed instance of a dynamic satellite ORM specifications

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
GANYMEDE_MAGNETIC_2000	79	Ganymede magnetic	GANYMEDE_2000	2000 DBC CELESTIOMAGNETIC Note: Object-fixed based on empirical measurements made by the Galileo spacecraft.	Vicinity of Ganymede	BI_AXIS_ORIGIN_3D	N/A	[DGMF]
RT Label	RT Code	RT Region	RT Parameters				Date published	References
GALILEO	1	Global (Ganymede)	$\Delta x = \Delta y = \Delta z = 0$, $\omega_1 = 0$, $\omega_2 = \{\text{dipole north pole tilt}\}$: unknown, $\omega_3 = \{\text{dipole north pole Ganymede east longitude}\}$ - 360°: unknown, $\Delta s = 0$				2000	[DGMF]

Table E.13 — Stellar ORM specifications

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
SUN_1992	243	Sun	This is the reference ORM for the Sun (a star).	1992 The x-positive xz-half-plane as determined by an ephemeris as specified in {Table I, "Sun"}, with its associated accuracy as specified in {Section 2, paragraph 5}.	Sun, Global	SPHERE	SUN_1992	[RIIC, Table I, "Sun"]
	RT Label	RT Code	RT Region	RT Parameters	Date published	References		
	IDENTITY	1	Global (Sun)	The reference ORM for the Sun.	1992	[RIIC, Table I, "Sun"]		

Table E.14 — Dynamic Stellar ORM specifications

Label	Code	Published name	Reference ORM	Binding information	Region	ORMT	RD parameterization	References
HELIO_ARIES_ECLIPTIC-J2000r0	102	Heliocentric Aries ecliptic, J2000.0	SUN_1992	DBC HELIOCENTRIC_ARIES-ECLIPTIC Note: First point of Aries as of 2000 Jan 1 11:58:55.816 UTC.	Solar system	BI_AXIS_ORIGIN_3D	N/A	[HAPG]
HELIO_ARIES_ECLIPTIC-TRUE_OF_DATE	103	Heliocentric Aries ecliptic, true of date	SUN_1992	DBC HELIOCENTRIC_ARIES-ECLIPTIC Note: First point of Aries, true of date.	Solar system	BI_AXIS_ORIGIN_3D	N/A	[HAPG]
HELIO_EARTH_ECLIPTIC	104	Heliocentric Earth ecliptic	SUN_1992	DBC HELIOCENTRIC_PLANET-ECLIPTIC	Solar system	BI_AXIS_ORIGIN_3D	N/A	[HAPG]
HELIO_EARTH_EQUATORIAL	105	Heliocentric Earth equatorial	SUN_1992	DBC HELIOCENTRIC_PLANET-EQUATORIAL	Solar system	BI_AXIS_ORIGIN_3D	N/A	[HAPG]

Table E.15 — Time fixed instance of a dynamic stellar ORM specifications

In this International Standard there are no time fixed instance of a dynamic stellar ORM specifications, therefore this table is empty.