

Member State
Associate of the CGPM
International organization

State as on 04 June 2018

Acronyms are listed in the last page of this document.

Country	AUV				Mass and Related Quantities										Length			PR	T	TF	EM		
	A	W	V	Total	Mass 1	Dens 2	Pres 3	F 4	Torq 5	Visc 6	H 7	Grav 8	FF 9	Total	Laser	Dim Met	Total	Total	Total	Total	Total	Matrices	
Albania					0									0									
Azerbaijan																							
Argentina	5		4	9	29	16	13	11					4	73	1	11	12	4	17	9	78	21	
Australia	13		10	23	7	2	4	5						18		6	6	17	26	21	80	27	
Austria	17		6	23	9	2	7	4		7	4	1	25	59	5	24	29	4	23	17	36	10	
Bangladesh																							
Belarus	31			31	6		1			2	1			10	2	14	16	11	37	31	42	6	
Belgium					10		2	0						12	3	11	14		20	4	7	3	
Bolivia					17									17									
Bosnia and Herzegovina					8									8					9	15	26	23	
Botswana																							
Brazil	57		31	88	27	15	14	5	1	22			4	88	8	19	27	11	11	13	66	29	
Bulgaria	12		18	30	8		15			1				24	3	16	19	7	44	16	58	33	
Canada	20	3	9	32	32	8	9						3	52	10	9	19	76	64	7	73	22	
CARICOM																							
Chile					24			9						33		1	1		10		26	13	
China	22	3	31	56	10	4	8	3	1	15	14		12	67	2	77	79	27	50	34	180	81	
Chinese Taipei	21		18	39	9		12	4			3		24	52	3	55	58	45	42	9	49	20	
Colombia						1		2						3		1	1		37	12			
Costa Rica					24									8					8	11	16	14	
Croatia							10							10	3	19	22		32		21	12	
Cuba													12	12					8		17		
Czech Republic	4		4	8	10		11	4	1				20	46	15	66	81	40	73	17	87	58	
Denmark	29		12	41	7		14	4					37	62		14	14	8	28		54	8	
Ecuador					20									20									
Egypt					7		6	4	1	5				23	2		2			4	6	5	
ESA																							
Estonia					8									8					4				
Ethiopia																							
Finland	17		13	30	9	2	14	3	3			1	4	36	11	49	60	53	42	11	103	39	
France	57		6	63	10	12	19	8	5	31			20	105	5	22	27	30	101	11	131	59	
Georgia					5									5					9		16	2	
Germany	18	5	53	76	10	22	23	11	4	67	24		43	204	4	93	97	83	117	25	164	57	
Ghana																							
Greece					9								15	24	2	2	4		54		38	12	
Hong Kong, China	15			15	9	6	6	4	3		6			34	2	13	15		30	29	66	43	
Hungary	6			6	8	14	16	8			5		8	59	3	15	18	57	46	5	85	5	
IAEA																							

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	A	W	V	Total	Mass 1	Dens 2	Pres 3	F 4	Torq 5	Visc 6	H 7	Grav 8	FF 9	Total	Laser	Dim Met	Total	Total	Total	Total	Total	Matrices
India	23		11	34	16	2	17	6	1	6	3		3	54	2	42	44	14	4	11	74	32
Indonesia	15	12		27	24		3							27		5	5		39		20	10
Iran																						
Iraq																						
Ireland	4			4	7									7		13	13		33	7	36	23
Israel																						
Italy	23	2	17	42	8	7	7	7		0	15	1	16	61	7	36	43	23	100	12	119	53
Jamaica					22									22								
Japan	4		4	8	12	7	11	3	3	28	3		28	95	7	35	42	49	44	31	55	41
JRC																						
Kazakhstan					6					3	8			17	3	3	6		9	25	5	3
Kenya	3		6	9																		
Korea	33	4	19	56	9	8	11	5	2		8		7	50	6	35	41	41	74	24	90	36
Kuwait																						
Latvia					7									7		6	6				16	2
Lithuania					7		5						8	20		9	9		17	16	16	6
Luxembourg																						
Macedonia, the FYR					7								8	15					8			
Malaysia	8		13	21	7		8							15	4	3	7	8	15	4	33	10
Malta																						
Mauritius																						
Mexico	23	1	16	40	28	20	18	15	4	11			15	111	2	32	34		15	9	142	49
Moldova																1	1		40			
Mongolia																						
Montenegro													4	4		1	1		18			
Namibia																						
Netherlands, The					7	2	5	0		40			31	85	9	63	72	29	76	26	206	42
New-Zealand					9	3	8							20	3	19	22	30	14	11	81	16
Norway					9								13	22	4	9	13	3	46		28	16
Pakistan																						
Oman																						
Panama					20									20						10	7	5
Paraguay					23		1							24								
Peru					19	1	2	1					7	30		1	1		43	4	12	5
Philippines					21									21					10			
Poland	15		33	48	8	5	8	4		31	4		11	71	7	43	50	15	69	30	48	30
Portugal			2	2	6	1	6	2		7			11	33	4	11	15	3	47		12	6
Qatar																						
Romania	8			8	9		7	3		7	4		2	32	1	20	21	17	44	9	39	20
Russia	35	7	30	72	8	2	13	18	1	11	9		6	68	1	22	23	110	143	36	326	10
Saudi Arabia																						
Serbia	12			12	10								9	19	3	12	15	11	37	12	40	20
Seychelles																						
Singapore					6		8	4			3		4	25	2	44	46	40	95	16	47	33
Slovakia					7		5			25			10	47	3	15	18	11	82	16	41	13
Slovenia					7		9						4	20	3	21	24		61	11	88	29
South Africa	56		29	85	24		9	10					5	48	1	30	31	60	34	8	112	
Spain	18		22	40	10	7	25	4	3				3	52	3	39	42	56	69	19	77	28
Sri Lanka																						
Sudan																						

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International organization

State as on 04 June 2018*Acronyms are listed in the last page of this document.*

Country	AUV				Mass and Related Quantities										Length			PR	T	TF	EM	
	A	W	V	Total	Mass 1	Dens 2	Pres 3	F 4	Torq 5	Visc 6	H 7	Grav 8	FF 9	Total	Laser	Dim Met	Total	Total	Total	Total	Matrices	
Sweden	20		13	33	11	8	14	4					23	60	3	38	41	29	54	19	143	26
Switzerland	21		3	24	10	16	8	4	2			1	11	52	3	79	82	53	23	12	101	46
Syrian Arab Republic																						
Tanzania																						
Thailand	18			18	8		11				3			22	2	33	35	5	72	8	21	16
Tunisia																				10	4	4
Turkey	16	1	8	25	8	3	12	6		47			10	86	5	71	76	9	53	20	119	52
Ukraine	30			30	5			2		2	1	1	3	14	2	25	27	6	63	30	57	11
United Arab Emirates																						
United Kingdom	0	11		11	9	8	11	6					14	48	10	45	55	136	62	12	173	55
United States	15	1	16	32	38	7	22	15			17		9	108	1	48	49	114	89	11	321	13
Uruguay					35	11							4	50		1	1		27		132	
Viet Nam					6		3						4	13	2	7	9		4	5		
WMO																						
Zambia																						
Zimbabwe																						
	744	50	457	1251	825	222	471	208	35	368	135	5	522	2791	187	1454	1641	1345	2675	775	4366	
14844	1251			2791										1641			1345	2675	775	4366		
Total General Physics	Total AUV			Total M										Total L			Total PR	Total T	Total TF	Total EM		

Member State
Associate of the CGPM
International organization

Country	Ionizing Radiation				Chemistry (QM)															Total by country for all metrology areas	
	RI(I) 1	RI(II) 2	RI(III) 3	Total	QM / 1	QM / 2	QM / 3	QM / 4	QM / 5	QM / 6	QM / 7	QM / 8	QM / 9	QM / 10	QM / 11	QM / 12	QM / 13	QM / 14	QM / 15		Total
Albania																					0
Azerbaijan																					0
Argentina		48		48		5	6		3			3	3			8		15			43
Australia	15	32	2	49	68		3	11	18					13	11		4				128
Austria	52	100		152				9													9
Bangladesh																					0
Belarus	21	30		51				15		2	1										18
Belgium																					0
Bolivia										2											2
Bosnia and Herzegovina												1									1
Botswana																					0
Brazil	8	96	15	119	7	3	22	36	17	5	3				8	6	0				107
Bulgaria	7	16		23						5											5
Canada	10		1	11	27	1			39					32	35		36		9		179
CARICOM																					0
Chile																					0
China	17	176	2	195	230	68	102	201		4	3	11	18	42	139	9		3	6		836
Chinese Taipei	7	78	4	89				7													7
Colombia										1	3										4
Costa Rica																					0
Croatia	2			2																	0
Cuba	13	63		76																	0
Czech Republic	7	104	12	123				23		3	3			0							29
Denmark	7			7						4	5										9
Ecuador																					0
Egypt	2			2			1											1			2
ESA																					0
Estonia																					0
Ethiopia																					0
Finland	30			30				6													6
France	82	206	15	303		13	22	40	7	4			4	10	18		7				125
Georgia																					0
Germany	88	158	20	266	25	34	17	82	26	7	5	159	43	35	18	3	41	22	7		524
Ghana																					0
Greece	35			35	1				3					2	8						14
Hong Kong, China					4	3			6	1			1	12	20	2	13	2			64
Hungary	26	78		104				19		3	4										26
IAEA	26			26																	26

Member State
Associate of the CGPM
International organization

Country	Ionizing Radiation				Chemistry (QM)															Total by country for all metrology areas		
	RI(I) 1	RI(II) 2	RI(III) 3	Total	QM / 1	QM / 2	QM / 3	QM / 4	QM / 5	QM / 6	QM / 7	QM / 8	QM / 9	QM / 10	QM / 11	QM / 12	QM / 13	QM / 14	QM / 15		Total	
India								1												1	236	
Indonesia																					118	
Iran																					0	
Iraq																					0	
Ireland																					100	
Israel																					0	
Italy	76	13	9	98				2			0	3	2	0	2					9	507	
Jamaica																					22	
Japan	29	217	13	259	86	43	12	152	22	6	1	3	13	10	115	9	71			543	1126	
JRC		110		110	31	9	11		4				9	5	6	2	3				80	190
Kazakhstan								5		1											6	68
Kenya															2						2	11
Korea	14	189	11	214	5	35	50	288					18	20	87		0	5	2	510	1100	
Kuwait																					0	0
Latvia																					29	29
Lithuania																					78	78
Luxembourg																					0	0
Macedonia, the FYR																					23	23
Malaysia	15			15																	118	118
Malta																					0	0
Mauritius																					0	0
Mexico	6	45		51	62	37	66	26	12	6	2	15	5	4	16		78			329	731	
Moldova	2			2																	43	43
Mongolia																					0	0
Montenegro																					23	23
Namibia																					0	0
Netherlands, The	21	57		78	17		4	222	2						1		0			246	818	
New-Zealand																					178	178
Norway	22			22																	134	134
Pakistan																					0	0
Oman																					0	0
Panama																					37	37
Paraguay																					24	24
Peru						9			1	4	2				1		2			19	109	
Philippines																					31	31
Poland	4	68		72				23		6	2									31	434	
Portugal	43			43				21													21	176
Qatar																					0	0
Romania		37		37		7			4			4					4			19	226	
Russia	161	124	44	329	35	15	24	458	9	6	4	14	20	4	8		21	3		621	1728	
Saudi Arabia																					0	0
Serbia								1													1	147
Seychelles																					0	0
Singapore					9				9					12	9			3		42	311	
Slovakia	30	37	9	76	7	35		38		5	2									87	378	
Slovenia	9	5		14					2			1		5	7			2		17	235	
South Africa	1	36		37		1	2	82				4			20		8		1	118	533	
Spain	52	107		159				31												31	545	
Sri Lanka																					0	0
Sudan																					0	0

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	RI(I) 1	RI(II) 2	RI(III) 3	Total	QM / 1	QM / 2	QM / 3	QM / 4	QM / 5	QM / 6	QM / 7	QM / 8	QM / 9	QM / 10	QM / 11	QM / 12	QM / 13	QM / 14	QM / 15		Total
Sweden	23			23							2									2	404
Switzerland	3	21		24				14												14	385
Syrian Arab Republic																					0
Tanzania																					0
Thailand							4	7	4			7	5	26	2			3		58	239
Tunisia																					14
Turkey		3		3	23	2		9	11			7		22	19	6	6	3		108	499
Ukraine		15		15	1			17		6	4									28	270
United Arab Emirates																					0
United Kingdom	22	116	42	180	28	26	8	325	13			1	6	23	17	1	3			451	1128
United States	24	497	8	529	10	73	149	135	21	9	3		9	160	19	33	1	14		636	1889
Uruguay									3	2					2					7	217
Viet Nam																					31
WMO								3												3	3
Zambia																					0
Zimbabwe																					0
	1012	2882	207	4101	676	419	499	2306	239	96	49	226	158	416	622	73	313	61	25	6178	Grand total
14844 Total General Physics		4101 Total RI		6178 Total Chemistry																	25123

Acronyms used in this document

AUV	Acoustics, Ultrasound and Vibration
AUV A	Acoustics, Ultrasound and Vibration; Sound in air
AUV W	Acoustics, Ultrasound and Vibration; Sound in water
AUV V	Acoustics, Ultrasound and Vibration; Vibration
EM	Electricity and Magnetism
EM Matrices	Usage of the presentation in tables of uncertainty ranges
L	Length
L Laser	Length; Laser
L DimMet	Length; Dimensional Metrology
M	Mass and Related Quantities
M Mass 1	Mass and Related Quantities; Mass Standards (Service Category No 1)
M Dens 2	Mass and Related Quantities; Density (Service Category No 2)
M Pres 3	Mass and Related Quantities; Pressure (Service Category No 3)
M F 4	Mass and Related Quantities; Force (Service Category No 4)
M Torq 5	Mass and Related Quantities; Torque (Service Category No 5)
M Visc 6	Mass and Related Quantities; Viscosity (Service Category No 6)
M H 7	Mass and Related Quantities; Hardness (Service Category No 7)
M Grav 8	Mass and Related Quantities; Gravity (Service Category No 8)
M FF 9	Mass and Related Quantities; Fluid Flow (Service Category No 9)
PR	Photometry and Radiometry
QM	Chemistry
QM / 1	Chemistry; High purity chemicals (Service Category No 1)
QM / 2	Chemistry; Inorganic solutions (Service Category No 2)
QM / 3	Chemistry; Organic solutions (Service Category No 3)
QM / 4	Chemistry; Gases (Service Category No 4)
QM / 5	Chemistry; Water (Service Category No 5)
QM / 6	Chemistry; pH (Service Category No 6)
QM / 7	Chemistry; Electrolytic conductivity (Service Category No 7)
QM / 8	Chemistry; Metal and metal alloys (Service Category No 8)
QM / 9	Chemistry; Advanced materials (Service Category No 9)
QM / 10	Chemistry; Biological fluids and materials (Service Category No 10)
QM / 11	Chemistry; Food (Service Category No 11)
QM / 12	Chemistry; Fuels (Service Category No 12)
QM / 13	Chemistry; Sediments, soils, ores, and particulates (Service Category No 13)
QM / 14	Chemistry; Other materials (Service Category No 14)
QM / 15	Chemistry; Surfaces, films, and engineered nanomaterials (Service Category No 15)
RI	Ionizing radiation
RI(I) 1	Ionizing radiation; Dosimetry (Service Category No 1)
RI(II) 2	Ionizing radiation; Radioactivity (Service Category No 2)
RI(III) 3	Ionizing radiation; Neutron measurements (Service Category No 3)
T	Thermometry
TF	Time and Frequency
<p>Note that one CMC involving n analytes measured in one matrix (multi-component CMC) is counted as n CMCs in the Tables above. The reason for this is that n values of uncertainties are given for this n-component CMC.</p>	