

Member State
Associate of the CGPM
International organization

State as on 31 July 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										1				1									
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		0							10	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	32					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	

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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	
IAEA																							
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																							
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																							

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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
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	15	18	1	11	9		6	70	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																						
Sweden	20		13	33	11	8	14	4					23	60	3	38	41	29	54	19	143	26
Switzerland	21		3	24	10	16	9	4	2			1	11	53	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	3	8	27	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	9	11	6					14	49	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	
Uzbekistan																						
Viet Nam					6		3						4	13	2	7	9		4	5		
WMO																						
Zambia																						
Zimbabwe																			13			
	744	52	457	1253	825	223	472	208	35	369	135	5	522	2794	187	1454	1641	1345	2688	775	4366	
14862	1253			2794										1641			1345	2688	775	4366		
Total General Physics	Total AUV			Total M										Total L			Total PR	Total T	Total TF	Total EM		

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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																					1
Argentina		48		48		5	6		3			3	3				15			43	293
Australia	15	32	2	49	68		3	11	18					13	11		4			128	368
Austria	52	100		152				9												9	352
Bangladesh																					0
Belarus	21	30		51				16		2	1									19	248
Belgium																					55
Bolivia										2										2	19
Bosnia and Herzegovina												1								1	59
Botswana																					0
Brazil	8	96	15	119	7	3	22	36	19	5	4			9	6	0				111	534
Bulgaria	7	16		23						5										5	226
Canada	10		1	11	27	1			39					32	35		36		9	179	513
CARICOM																					0
Chile																					70
China	17	176	2	195	230	68	102	201		4	3	11	18	42	139	9		3	6	836	1524
Chinese Taipei	7	78	4	89				7												7	390
Colombia										1	3									4	57
Costa Rica																					67
Croatia	2			2																	87
Cuba	13	63		76																	113
Czech Republic	7	104	12	123				23		6	3			0						32	507
Denmark	7			7						4	5									9	223
Ecuador																					20
Egypt	2			2			1											1		2	39
ESA																					0
Estonia																					12
Ethiopia																					0
Finland	30			30				6	1											7	372
France	82	206	9	297	1	13	22	41	13	4	2		4	10	18		7			135	900
Georgia																					30
Germany	88	158	20	266	25	34	17	82	27	7	6	159	43	38	20	3	41	22	7	531	1563
Ghana																					0
Greece	35			35	1				7					2	9					19	174
Hong Kong, China					4	3			6	1				1	12	20	2	13	2	64	253
Hungary	26	78		104				19		3	4									26	406

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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		
IAEA	26			26																	26		
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		0		0	0	0	0		0				0	0	0	0	0					0	0
Kazakhstan								6		1											7	69	
Kenya															2						2	11	
Korea	14	189	11	214	5	35	50	288					18	20	87		0	5	2		510	1100	
Kuwait																						0	
Latvia																						29	
Lithuania																						78	
Luxembourg																						0	
Macedonia, the FYR																						23	
Malaysia	15			15																		118	
Malta																						0	
Mauritius																						0	
Mexico	6	45		51	62	37	66	26	12	6	2	15	5	4	16		78				329	731	
Moldova	2			2																		43	
Mongolia																						0	
Montenegro																						23	
Namibia																						0	
Netherlands, The	21	57		78	17		4	223	2						1		0				247	819	
New-Zealand																						178	
Norway	22			22																		134	
Pakistan																						0	
Oman																						0	
Panama																						37	
Paraguay																						24	
Peru						9			1	4	3				3		2				22	112	
Philippines																						31	
Poland	4	68		72	1			23		6	2										32	435	
Portugal	43			43				21													21	176	
Qatar																						0	

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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	
Romania		37		37		7			7			4					4				27	234
Russia	161	124	44	329	35	15	24	467	12	6	4	14	20	4	8		21	3			633	1742
Saudi Arabia																						0
Serbia								1													1	147
Seychelles																						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		4	2			21	239
South Africa	1	36		37		1	2	82				4			20		8			1	118	533
Spain	52	107		159				31													31	545
Sri Lanka																						0
Sudan																						0
Sweden	23			23							2										2	404
Switzerland	3	21		24				14													14	386
Syrian Arab Republic																						0
Tanzania																						0
Thailand							4	7	4				7	5	26	2			3		58	239
Tunisia																						14
Turkey		3		3	25	2		9	16			7		27	32	6	6	3			133	526
Ukraine		15		15	1			22		6	4										33	275
United Arab Emirates																						0
United Kingdom	22	116	42	180	30	26	8	328	13			1	6	25	18	1	3				459	1137
United States	24	497	8	529	10	73	149	135	21	9	3		9	160	19	33	1	14			636	1889
Uruguay									11	2	2				2						17	227
Uzbekistan																						0
Viet Nam																						31
WMO								3													3	3
Zambia																						0
Zimbabwe																						13
	1012	2772	201	3985	651	410	488	2327	268	99	56	226	149	424	638	71	314	61	25	6207		
14862 Total General Physics	3985 Total RI			6207 Total Chemistry																	25054	

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

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.