

Member State
Associate of the CGPM
International organization

State as on 07 November 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	12	15		20	4	7	3	
Bolivia					17									17									
Bosnia and Herzegovina					8									8					9	15	26	23	
Botswana																							
Brazil	57		31	88	27	15	11	5	1	22			4	85	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	4		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	85	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	20	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		12	15																			
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	150	54	
Moldova																1	1		40				
Mongolia																							
Montenegro													4	4		1	1		18				
Namibia					7									7									
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	5	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	7	2		7			11	34	4	11	15	2	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	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	

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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
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	40	43	59	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							5	51		1	1		27		132	
Uzbekistan																						
Viet Nam					6		3						4	13	2	7	9		4	5		
WMO																						
Zambia																			11			
Zimbabwe																			13			
	744	52	463	1259	832	223	470	208	35	369	135	5	523	2800	187	1460	1647	1346	2699	776	4374	
14901	1259			2800										1647			1346	2699	776	4374		
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		8		15			43	293
Australia	15	32	2	49	69		4	11	18					14	11		4			131	371
Austria	52	100		152				9												9	352
Bangladesh																					0
Belarus	21	30		51				16		2	1									19	248
Belgium																					56
Bolivia										2											2
Bosnia and Herzegovina												1									1
Botswana																					0
Brazil	8	96	15	119	7	3	22	36	19	5	4			9	6	0				111	531
Bulgaria	7	16		23						5											5
Canada	10		1	11	27	1			39					32	35		36		9	179	513
CARICOM																					0
Chile																					0
China	17	176	2	195	236	68	103	203	6	4	3	11	18	45	151	9	20	3	6	886	1574
Chinese Taipei	7	78	4	89				7													7
Colombia										1	3										4
Costa Rica																					0
Croatia	2			2																	67
Cuba	13	63		76																	87
Czech Republic	7	104	12	123				23		6	3			0						32	113
Denmark	7			7						4	5										507
Ecuador																					9
Egypt	2			2			1											1			20
ESA																					39
Estonia																					0
Ethiopia																					0
Finland	30			30				6	1												7
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	1565
Ghana																					0
Greece	35			35	1				7					2	9						19
Hong Kong, China					5	3			7	1				1	14	22	2	13	2		70
Hungary	26	78		104				19		3	4										26

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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										1					3						4	122	
Iran																						0	
Iraq																						0	
Ireland																						100	
Israel																						0	
Italy	76	13	9	98				2			0	3	2	0	2							9	504
Jamaica																							22
Japan	29	217	13	259	86	49	12	153	22	6	1	3	13	10	115	9	71					550	1133
JRC		0		0	0	0	0		0				0	0	0	0	0					0	0
Kazakhstan								6		1												7	69
Kenya															2							2	17
Korea	14	189	11	214	5	35	50	359					18	20	124		0	5	2			618	1208
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	739
Moldova	2			2																			43
Mongolia																							0
Montenegro																							23
Namibia																							7
Netherlands, The	21	0		21	17		4	223	2						1		0					247	762
New-Zealand																							178
Norway	22			22																			134
Pakistan																							0
Oman																							0
Panama																							37
Paraguay																							24
Peru						9			1	4	3				3		2					22	113
Philippines																							31
Poland	4	68		72	1			23		6	2											32	435
Portugal	43			43				21														21	176
Qatar																							0
Romania		37		37		7			7			4		3	2		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					12				9					16	20			3				60	329
Slovakia	30	37	9	76	7	35		38		5	2											87	378
Slovenia	9	5		14					2			1		5	7		4	2				21	239

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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	
South Africa	1	36		37		1	2	82				4			20		8			1	118	533
Spain	52	107		159				31													31	549
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					2			4	8	4			7	7	30	2			3		67	248
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	228
Uzbekistan																						0
Viet Nam																						31
WMO								3													3	3
Zambia																						11
Zimbabwe																						13
	1012	2715	201	3928	664	416	490	2401	276	100	56	226	149	436	707	71	334	61	25	6412	Grand total	
14901	3928			6412															25241			
Total General Physics	Total RI			Total Chemistry																		

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>	