

Member State
Associate of the CGPM
International organization

State as on 26 March 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					7									7								
Azerbaijan																						
Argentina	5		4	9	29	16	13	11					4	73	1	11	12	4	17	9	78	21
Australia	13		10	23	18	2	4	5						29		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	76	78	27	50	34	180	81
Chinese Taipei	21		18	39	9		12	4			3		24	52	3	55	58	45	27	9	49	20
Colombia						1								1		1	1		37	13		
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	11	13		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		15		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						8			14	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	6	4	33	10	
Malta																							
Mauritius																							
Mexico	23	1	16	40	28	20	18	15	4	11			15	111	2	32	34		0		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	32	76	26	206	42	
New-Zealand					9	3	8							20	3	18	21	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	35	37	40	85	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	15		29	44	24		11	10					5	50	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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	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	31	33	5	40	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																						
	703	50	457	1210	843	222	473	206	35	365	135	5	522	2806	187	1439	1626	1348	2570	767	4366	
14693	1210				2806										1626			1348	2570	767	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																					7
Azerbaijan																					0
Argentina		48		48		5	6		3			3	3		8		15			43	293
Australia	15	32	2	49	68		3	11	18					13	11		4			128	379
Austria	52	100		152				9												9	352
Bangladesh																					0
Belarus	21	30		51				15		2	1									18	247
Belgium																					57
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	530
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	230	68	102	201		4	3	11	18	42	139	9		3	6	836	1523
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		3	3			0						29	113
Denmark	7			7						4	5										504
Ecuador																					9
Egypt	2			2			1											1			20
ESA																					39
Estonia																					0
Ethiopia																					0
Finland	30			30				6													6
France	82	206	15	303		13	22	40	7	4			4	10	18		7			125	371
Georgia																					0
Germany	88	158	20	266	25	34	17	82	26	7	5	159	43	35	18	3	41	22	7	524	1556
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
																					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																						94
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	65
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																		109
Malta																						0
Mauritius																						0
Mexico	6	45		51	62	37	66	26	12	6	2	15	5	4	16		78				329	707
Moldova	2			2																		43
Mongolia																						0
Montenegro																						23
Namibia																						0
Netherlands, The	21	57		78	17		4	222	2						1		0				246	821
New-Zealand																						177
Norway	22			22																		134
Pakistan																						0
Oman																						0
Panama																						37
Paraguay																						24
Peru						9				1	4	2			1		2				19	109
Philippines																						31
Poland	4	68		72				23		6	2										31	434
Portugal	43			43				21													21	176
Qatar																						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
Serbia								1													1	147
Seychelles																						0
Singapore					9				9					12	9				3		42	292
Slovakia	30	37	9	76	7	35		38		5	2										87	378
Slovenia	9	5		14					2					5	7			2			17	235
South Africa	1	36		37		1	2	82				4			20		8			1	118	494
Spain	52	107		159				31													31	545
Sri Lanka																						0
Sudan																						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
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	205
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
	14693	4101										6178									24972
	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>	