

Member State
Associate of the CGPM
International organization

State as on 2 November 2017

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	25			25	6		1			2	1			10	2	14	16	11	37	31	41	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	71	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	28	180	81
Chinese Taipei	21		18	39	9		12	4			3		21	49	3	55	58	45	27	9	49	20
Colombia						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		2	31	7		14	4					36	61		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			
Finland	17		13	30	9	2	14	3	3			1	3	35	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		42	203	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

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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	
Hungary	6			6	8	14	16	8			5		8	59	3	15	18	57	46	5	85	5	
IAEA																							
India	23		11	34	16	2	17	6	1	6	3		3	54	2	45	47	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	14	7		0	15	1	16	68	7	36	43	23	97	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	3	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	
Latvia					7									7		6	6				16	2	
Lithuania					7		5						8	20		9	9		17	16	16	6	
Luxembourg																							
Macedonia, the FYR					7								6	13					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													1	1		1	1		18				
Namibia																							
Netherlands, The					7	2	5	0		40			30	84	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		10	70	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			30	1	20	21	17	44	9	39	20	
Russia	35	7	30	72	8	2	13	18		11	9		6	67	1	22	23	110	143	36	326	10	
Saudi Arabia																							
Serbia	12			12	10								13	23	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	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	10	51	3	79	82	53	23	12	101	46
Syrian Arab Republic																						
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	50	20	119	52
Ukraine	30			30	5					2	1	1	3	12	2	25	27	6	63	30	57	11
United Arab Emirates																						
United Kingdom	0	11		11	9	8	11	6					13	47	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																						
Yemen																						
Zambia																						
Zimbabwe																						
	697	50	447	1194	843	222	480	204	34	365	135	5	509	2797	187	1441	1628	1343	2564	761	4363	
14650	1194				2797										1628			1343	2564	761	4363	
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	240	
Belgium																						57	
Bolivia										2												2	19
Bosnia and Herzegovina												1										1	59
Botswana																						0	
Brazil	8	96	15	119	7	3	22	36	17	5	3				8	6	10				117	540	
Bulgaria	7	16		23						5												5	226
Canada	10		1	11	27	1			39					32	35		36			9	179	508	
CARICOM																						0	
Chile																						70	
China	17	176	2	195	230	68	102	201		4	3	11	18	42	139	9		3	6		836	1517	
Chinese Taipei	7	78	4	89				7														7	372
Colombia										1	3											4	55
Costa Rica																						67	
Croatia	2			2																		87	
Cuba	13	63		76																		113	
Czech Republic	7	104	12	123				23		3	3			0							29	504	
Denmark	7			7						4	5											9	212
Ecuador																						20	
Egypt	2			2			1											1				2	39
ESA																						0	
Estonia																						12	
Finland	30			30				6														6	370
France	82	206	15	303		13	22	40	7	4			4	10	18		7				125	896	
Georgia																						30	
Germany	88	158	20	266	25	34	17	82	26	7	5	159	43	35	18	3	41	22	7		524	1555	
Ghana																						0	
Greece	35			35	1				3					2	8							14	169
Hong Kong, China					4	3			6	1				1	12	20	2	13	2			64	251

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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			
Hungary	26	78		104				19		3	4										26	406		
IAEA	26			26																		26	26	
India								1														1	239	
Indonesia																							94	
Iran																							0	
Iraq																							0	
Ireland																							100	
Israel																							0	
Italy	76	13	9	98				2			0	3	2	0	2							9	511	
Jamaica																							22	
Japan	29	217	13	259	86	42	12	152	22	6	1	3	13	10	115	9	71					542	1125	
JRC		110		110	31	9	11		4				9	5	6	2	17						94	204
Kazakhstan								5		1													6	63
Kenya															2								2	11
Korea	14	189	11	214	5	35	50	288					18	20	87		4	5	2				514	1104
Latvia																								29
Lithuania																								78
Luxembourg																								0
Macedonia, the FYR																								21
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																								20
Namibia																								0
Netherlands, The	21	57		78	17		4	222	2					1		0							246	820
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	433
Portugal	43			43				21															21	176
Qatar																								0
Romania		37		37		7			4			4				4							19	224
Russia	161	124	44	329	35	15	24	458	9	6	4	14	20	4	8		21	3					621	1727
Saudi Arabia																								0
Serbia								1															1	151
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			1		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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	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	384
Syrian Arab Republic																					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	496
Ukraine		15		15	1			17		6	4									28	268
United Arab Emirates																					0
United Kingdom	22	116	42	180	28	26	8	325	13			1	6	23	17	1	7			455	1131
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
Yemen																					0
Zambia																					0
Zimbabwe																					0
	1012	2882	207	4101	676	418	499	2306	239	96	49	226	158	416	622	73	345	61	25	6209	Grand total
14650 Total General Physics		4101 Total RI		6209 Total Chemistry																	24960

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.