

Member State
Associate of the CGPM
International organization

State as on 26 February 2019*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									
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		27	27	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	
Azerbaijan										1				1									
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		2							10					12	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		
Czechia	4		4	8	10		11	4	1				21	47	15	66	81	40	73	17	87	58	
Denmark	29		12	41	7		14	4					37	62		14	14	8	27		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			19	104	5	22	27	30	102	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		45		20	10	
Iran																							
Iraq																							
Ireland	4			4	7									7		13	13		38	7	36	23	
Israel																							
Italy	23	2	17	42	8	7	7	7		0	15	1	16	61	7	36	43	20	100	12	115	53	
Jamaica					22									22									
Japan	4		4	8	12	7	11	3	3	28	3		28	95	7	27	34	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	71	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																							
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
Oman																							
Pakistan																							
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	

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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	
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						5	21	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	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	141	26	
Switzerland	21		3	24	10	16	9	4	2			1	12	54	3	79	82	61	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	472	208	35	369	135	5	525	2804	187	1473	1660	1354	2710	776		4368	
14931	1259			2804										1660			1354	2710	776	4368			
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
Argentina		48		48		5	6		3			3	3		8		15				43
Australia	15	32	2	49	69		4	11	18					14	11		4				131
Austria	52	100		152				9													9
Azerbaijan																					
Bangladesh																					
Belarus	21	30		51				16		2	1										19
Belgium																					
Bolivia										2											2
Bosnia and Herzegovina												1									1
Botswana																					
Brazil	8	96	15	119	7	3	22	36	19	5	4			9	6	0					111
Bulgaria	7	16		23						5											5
Canada	10		1	11	27	1			39					32	35		36			9	179
CARICOM																					
Chile																					
China	17	176	2	195	236	68	103	203	6	4	3	11	18	45	151	9	20	3	6		886
Chinese Taipei	7	78	4	89				7													7
Colombia										1	3										4
Costa Rica																					
Croatia	2			2																	
Cuba	13	63		76																	
Czechia	7	104	12	123				23		6	3			0							32
Denmark	7			7						4	5										9
Ecuador																					
Egypt	2			2			1											1			2
ESA																					
Estonia																					
Ethiopia																					
Finland	30			30				6	1												7
France	82	206	9	297	1	13	22	41	13	4	2		4	10	18		7				135
Georgia																					
Germany	88	155	20	263	25	34	17	82	27	7	6	159	43	38	20	3	41	22	7		531
Ghana																					
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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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	
IAEA	26			26																	26	
India								1													1	236
Indonesia										1					3						4	128
Iran																						0
Iraq																						0
Ireland																						105
Israel																						0
Italy	76	13	9	98				2			0	3	2	0	2						9	500
Jamaica																						22
Japan	29	217	13	259	86	49	12	153	22	6	1	3	13	10	115	9	71				550	1125
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	1205
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
Oman																						0
Pakistan																						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

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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
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													147
Seychelles																					0
Singapore					12				9					16	20			3			60
Slovakia	30	37	9	76	7	35		38		5	2										87
Slovenia	9	5		14					2			1		5	7		4	2			21
South Africa	1	36		37		1	2	82				4			20		8			1	118
Spain	52	105		157				31													31
Sri Lanka																					0
Sudan																					0
Sweden	23			23							2										2
Switzerland	3	21		24				14													14
Syrian Arab Republic																					0
Tanzania																					0
Thailand					2			4	8	4			7	7	30	2		3			67
Tunisia																					14
Turkey		3		3	25	2		9	16			7		27	32	6	6	3			133
Ukraine		15		15	1			22		6	4										33
United Arab Emirates																					0
United Kingdom	22	116	42	180	30	26	8	328	13			1	6	25	18	1	3				459
United States	26	497	8	531	10	73	149	135	21	9	3		9	160	19	33	1	14			636
Uruguay									11	2	2				2						17
Uzbekistan																					0
Viet Nam																					31
WMO								3													3
Zambia																					11
Zimbabwe																					13
	1014	2710	201	3925	664	416	490	2401	276	100	56	226	149	436	707	71	334	61	25	6412	Grand total
14931	3925			6412																	25268
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
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Czechia	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
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TF	Time and Frequency
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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.