

Member State
Associate of the CGPM
International organization

State as on 24 July 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	28	62	5	22	27	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	4	
Bolivia																							
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	32	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	X	3	1	15	14		12	59	2	78	80	27	42	28	180	81	
Chinese Taipei	21		18	39	9		12	4			3		21	49	3	55	58	45	27	9	49	20	
Colombia																			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	72	17	87	66	
Denmark	29		2	31	7		14	4					36	61		14	14	8	23		54	8	
Ecuador					20									20									
Egypt					7		6	4	1	5				23	2		2			4	2	1	
ESA																							
Estonia																			4				
Finland	17		13	30	9	2	14	3	3			1	3	35	11	49	60	53	44	11	103	37	
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	92	96	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	
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	
IRMM																							
Israel																							
Italy	23	2	17	42	8	7	14	7		0	15	1	16	68	7	35	42	23	97	12	119	53	
Jamaica					22									22									
Japan	4		4	8	12	7	11	3	3	28	3		28	95	7	38	45	49	44	31	55	41	
Kazakhstan					6						8			14	3	3	6		9	25	3	3	
Kenya	3		6	9																			

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
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		15		150	54
Moldova																			40			
Mongolia																						
Montenegro													1	1						18		
Namibia																						
Netherlands, The					7	2	5	0		40			30	84	9	63	72	33	76	26	206	42
New-Zealand					9	3	8							20	3	18	21	30	14	11	81	16
Norway					9								13	22	4	7	11	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	81	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	30
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																						
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	67	70	53	23	12	91	46
Syrian Arab Republic																						
Thailand	18			18	8		11				3			22	2	32	34	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	29			29	5					2	1	1	3	12	2	25	27		63	30	57	11
United Arab Emirates																						
United Kingdom	0	11		11	9	8	11	6					13	47	10	46	56	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																						
	696	50	447	1193	818	221	472	204	34	365	135	5	512	2766	187	1428	1615	1338	2551	761		4357
14581	1193			2766										1615			1338	2551	761	4357		
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		6		9			35	285
Australia	15	32	2	49	68		3	11	18					11	11		6			128	379
Austria	52	100		152				7												7	351
Bangladesh																					0
Belarus	21	30		51				13		2	1									16	238
Belgium																					57
Bolivia										2										2	2
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	214
Canada	10		1	11	26	1			39					32	2		35			135	464
CARICOM																					0
Chile																					70
China	17	176	2	195	226	66	101	187		4	3	11	12	34	90	9		3	2	748	1415
Chinese Taipei	7	78	4	89				6												6	371
Colombia																					50
Costa Rica																					67
Croatia																					85
Cuba	13	63		76																	113
Czech Republic	7	104	12	123				23		3	3			0						29	503
Denmark	7			7						4	5									9	207
Ecuador																					20
Egypt	2			2			1											1		2	35
ESA																					0
Estonia																					4
Finland	30			30				6												6	372
France	82	206	15	303		13	22	42	7	4			4	10	16		14			132	903
Georgia																					30
Germany	88	158	20	266	25	34	17	83	26	7	5	159	43	34	18	3	70	22	3	549	1579
Ghana																					0
Greece	35			35					1					2	7					10	165
Hong Kong, China					3	3			6	1				1	12	16	2	5	2	51	238
Hungary	26	78		104				18		3	4									25	405
IAEA	26			26																	26
India								1												1	239
Indonesia																					94
Iran																					0
Iraq																					0
Ireland																					100
IRMM		110		110	31	9	11		4				9	5	6	2	30			107	217
Israel																					0
Italy	76	13	9	98				2			0	3	2	0	2					9	510
Jamaica																					22
Japan	29	217	13	259	82	35	12	158	22	6		3	13	5	115	3	72			526	1112
Kazakhstan								3		1										4	61
Kenya															2					2	11

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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	
Korea	14	189	11	214	5	35	50	296					18	20	87		4	5	2	522	1112	
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	11	6	2	15	5	4	16		75			325	726	
Moldova	2			2																	42	
Mongolia																					0	
Montenegro																					19	
Namibia																					0	
Netherlands, The	21	57		78	17		4	251	2						1		4			279	854	
New-Zealand																					177	
Norway	22			22																	132	
Pakistan																					0	
Oman																					0	
Panama																					37	
Paraguay																					24	
Peru						9				4	2				1					16	106	
Philippines																					31	
Poland	4	68		72				22		6	2									30	432	
Portugal	43			43				21													21	176
Qatar																					0	
Romania		37		37		7			3			4								14	219	
Russia	161	124	44	329	30	15	24	457	9	5	4	14	12	4	8		9	3		594	1700	
Saudi Arabia																					0	
Serbia							1													1	151	
Seychelles																					0	
Singapore					8				6					12	9			3		38	284	
Slovakia	30	37	9	76	7	35		38		5	2									87	378	
Slovenia	9	5		14					2					5	5			2		15	233	
South Africa	1	36		37		1	2	83				4			5		3		1	99	475	
Spain	52	107		159				25												25	539	
Sri Lanka																					0	
Sudan																					0	
Sweden	23			23							2									2	404	
Switzerland	3	21		24				14												14	362	
Syrian Arab Republic																					0	
Thailand								4	7	4			7	5	24	1		3		55	203	
Tunisia																					14	
Turkey		3		3	22	2		3	7			7		21	12	1		3		78	466	
Ukraine		15		15				17		6	4									27	260	
United Arab Emirates																					0	
United Kingdom	22	116	42	180	27	26	8	347	13			1	6	23	16	1	11			479	1156	
United States	24	497	8	529	10	73	149	135	21	9	3		9	160	19	33	205	14		840	2093	
Uruguay																					210	
Viet Nam																					31	
WMO								3												3	3	
Yemen																					0	
Zambia																					0	
Zimbabwe																					0	
	1010	2882	207	4099	656	409	498	2339	224	92	45	226	144	399	502	61	562	61	8	6226	Grand total	
14581 Total General Physics	4099 Total RI			6226 Total Chemistry																	24906	

Distribution of CMCs that are temporarily removed ("greyed-out") from the KCDB

	AUV	M	PR	EM	T	RI	L	QM	TF	Total
AFRIMETS										
ZA		2								2
Total AFRIMETS:										2
APMP										
AU				27						27
NZ										0
TH						3				3
Total APMP:										30
COOMET										
KZ								1 partially Cat. 6		0
Total COOMET:										0
EURAMET										
BE				25					6	31
FR		1		3						4
IAEA						1				1
IRMM										
IT		30		15			1	3		49
LV				30						30
PT							1			1
SK	6						2			8
Total EURAMET:										124
SIM										
MX			22					2	9	33
AR							1			1
CA							0			0
US		3		8		1				12
BR								4		4
Total SIM:										50
TOTAL:										206

The acronyms are listed in the last page of this document.

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.