

Member State
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International organization

Distribution of CMCs recorded in the KCDB

The meaning of the acronyms are given 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		10	10	3	17	9	78	Yes (21)
Australia	13		10	23	18	2	4	5						29		6	6	17	26	21	52	Yes (18)
Austria	17		6	23	8	2	7	4		7	4	1	29	62	5	22	27	4	20	17	36	Yes (10)
Bangladesh																						
Belarus	25			25	6		1			2	1			10	1	12	13	3	37	31	39	Yes (2)
Belgium					10		2	3						15	3	14	17		20		6	Yes (3)
Bolivia																						
Bosnia and Herzegovina					7									7								
Botswana																						
Brazil	57		31	88	27	4	14	5	1	22			4	77	2	18	20	11	11	13	131	Yes
Bulgaria	12		18	30	8		15			1				24	3	15	18	6	32	16	58	Yes (33)
Canada	18	2	8	28	32	8	9						3	52	10	9	19	71	64	7	236	No
CARICOM																						
Chile					24			9						33		1	1		10			
China	19	3	31	53	10	4	8	3	1	15	14		12	67	2	48	50	27	30	28	144	Yes (63)
Chinese Taipei	21		18	39	9		12	4			3		21	49	1	38	39	45	27	9	49	Yes (19)
Colombia																				13		
Costa Rica					24								8	32					8	11	54	Yes
Croatia							10							10	3	15	18		32		21	Yes (12)
Cuba													12	12					8		17	No
Czech Republic	4		4	8	10		11	4	1				20	46	15	62	77	20	45	17	81	Yes (54)
Denmark	29		2	31	7		14	4					36	61		15	15	8	23		55	Yes (8)
Ecuador					20									20								
Egypt					7		6	4	1	5				23	2		2			4	2	Yes (1)
ESA																						
Estonia																			4			
Finland	17		13	30	8	2	14					1	3	28	11	48	59	53	44	11	99	Yes (38)
France	57		8	65	10	12	19	8	5	31			17	102	5	22	27	30	101	11	126	Yes (55)
Georgia					5									5					9		16	Yes (2)
Germany	18	5	53	76	10	22	23	11	4	67	24		40	201	4	90	94	76	116	25	161	Yes (54)
Ghana																						
Greece					9								15	24	2	2	4		54		38	Yes (12)
Hong Kong, China	15			15	9	6	6	4	3		6			34	2	11	13		30	29	66	Yes (43)
Hungary	6			6	8	14	16	8			5		8	59	3	16	19	57	36	5	85	Yes
IAEA																						
India	23		11	34	16	2	17	6	1	6	3		3	54	2	45	47	14	4	11	74	Yes (32)
Indonesia	15			15	24		3							27		5	5		11		15	Yes (5)
Iraq																						
Ireland	4			4	7									7		13	13		33	7	55	Yes (20)
IRMM																						
Israel																						
Italy	23	2	17	42	8	8	14	7		29	15	1	16	98	7	36	43	23	62	14	132	Yes (51)
Jamaica					22									22								
Japan	4		4	8	12	7	11	3	3	28	3		28	95	7	38	45	49	44	27	35	Yes (29)
Kazakhstan					6						8			14	3	3	6		5	25		
Kenya																						

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23 July 2015

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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
Korea	33		8	41	9	8	11	5	2		8		7	50	6	35	41	41	74	24	90	Yes (36)
Latvia					7									7		6	6				46	Yes
Lithuania					7		5						8	20		9	9		17	16	16	Yes (6)
Luxembourg																						
Malaysia	8		13	21	7		8							15	4	3	7	8	6	4	33	Yes (10)
Malta																						
Mauritius																						
Mexico	23	1	16	40	28	20	18	15	4	11			15	111	2	20	22	22	15	9	150	Yes (54)
Moldova																			40			
Mongolia																						
Montenegro																						
Namibia																						
Netherlands, The			6	6	7	2	5	0		40			30	84	9	63	72	13	76	26	190	Yes (26)
New-Zealand					9	3	8							20	3	18	21	30	14	11	86	Yes (11)
Norway					9								13	22	4	7	11	3	31		28	Yes (16)
Pakistan																						
Oman																						
Panama					20									20						10	4	No
Paraguay					23									23								
Peru					19	1							7	27		1	1		43	4	12	Yes
Philippines					21									21								
Poland	15		33	48	8	5	8	4		31	4		10	70	7	41	48	12	53	30	48	Yes (29)
Portugal			2	2	6	1	6	2		7			14	36	4	12	16	3	47		12	Yes (6)
Romania	8			8	9		7	3		7	4			30	1	20	21	15	44	9	39	Yes (20)
Russia	35	7	30	72	8	2	13	18		11	9		5	66	1	20	21	108	137	36	325	Yes (9)
Saudi Arabia																						
Serbia	12			12	10								13	23	3	6	9	11	37	12	39	Yes (20)
Seychelles																						
Singapore					6		8	4			3		4	25	2	35	37	40	81	13	47	Yes (33)
Slovakia	6			6	7		5			25			10	47	3	19	22	11	82	16	41	Yes (13)
Slovenia					7		9						4	20	3	21	24		58	11	86	Yes (29)
South Africa	15		29	44	24		11	10					5	50	1	30	31	60	34	8	112	No
Spain	18		4	22	10	7	25	4	3				3	52	3	39	42	49	69	19	72	Yes (25)
Sudan																						
Sweden	20		13	33	11	8	14	4					23	60	3	38	41	29	54	19	142	Yes (26)
Switzerland	21		3	24	10	16	8	4	2			1	12	53	3	63	66	32		12	85	Yes (43)
Syrian Arab Republic																						
Thailand	18			18	8		11							19	2	32	34	5	40	6	21	Yes (16)
The FYR Macedonia					7								6	13								
Tunisia																						
Turkey	16	1	8	25	8	3	12	6		47			9	85	5	46	51	9	50	20	119	Yes (52)
Ukraine	29			29	5					2	1		3	11	2	23	25		44	30	56	Yes (10)
United Kingdom	31	11		42	11	8	11	6					13	49	9	46	55	129	62	12	180	Yes (55)
United States	15	1	16	32	38	7	22	15			17		9	108	1	48	49	133	89	11	192	Yes
Uruguay					35	11							4	50		1	1		27		132	No
Viet Nam					6		3						4	13	2	7	9		4	5		
WMO																						
Yemen																						
Zambia																						
Zimbabwe																						
	725	33	419	1177	817	211	477	203	31	394	132	4	510	2779	176	1323	1499	1280	2291	734		4364
14124 Total General Physics	1177 Total AUV				2779 Total M										1499 Total L			1280 Total PR	2291 Total T	734 Total TF	4364 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	
Australia	15	32	2	49	25		4	11	18					11	11		6				86	
Austria	52	100		152				1													1	
Bangladesh																					0	
Belarus	21	30		51				13		1											14	
Belgium																					58	
Bolivia																					0	
Bosnia and Herzegovina																					7	
Botswana																					0	
Brazil	8	96	15	119	7	3	22	24	17	5	1				8	6	10				103	
Bulgaria	7	16		23						5											5	
Canada	10		1	11	26	1			39					32	2		35				135	
CARICOM																					0	
Chile																					44	
China	17	176	2	195	197	52	89	166		4	2	2	12	33	63	9			1		630	
Chinese Taipei	7	78	4	89				3													3	
Colombia																					13	
Costa Rica																					105	
Croatia																					81	
Cuba	13	63		76																	113	
Czech Republic	7	104	12	123				13		2	3			0							18	
Denmark	8			8						4	5										9	
Ecuador																					210	
Egypt	2			2			1														20	
ESA																					34	
Estonia																					0	
Finland	30			30				5													4	
France	82	166	15	263		13	22	39	7	3			4	5	15		10				359	
Georgia																					843	
Germany	88	158	20	266	25	31	17	82	22	7	5	154	43	33	18	2	70	20	3		30	
Ghana																					1547	
Greece	35			35					1					1	4						0	
Hong Kong, China					3	3			4	1				1	9	13	5				161	
Hungary	26	78		104				19		3	4										226	
IAEA	22			22																	397	
India								1													22	
Indonesia																					239	
Iraq																					73	
Ireland																					0	
IRMM		110		110	30	9	10		4				9	17	6	2	30				119	
Israel																					227	
Italy	76	13	9	98				3			2	3	2	2							0	
Jamaica																					524	
Japan	29	217	13	259	70	27	12	158	22	6		3	13	5	111		72				22	
Kazakhstan																					1061	
Kenya															1						50	
																					1	

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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	295					18	20	86		4		2	515	1090
Latvia																					59
Lithuania																					78
Luxembourg																					0
Malaysia	15			15																	109
Malta																					0
Mauritius																					0
Mexico		45		45	54	37	66	26	11	6	2	15	5	4	16		75				731
Moldova																					40
Mongolia																					0
Montenegro																					0
Namibia																					0
Netherlands, The	21	57		78	17		4	248	2						1		4				821
New-Zealand																					182
Norway	22			22																	117
Pakistan																					0
Oman																					0
Panama																					34
Paraguay																					23
Peru						3				3	2				1						96
Philippines																					21
Poland	4	68		72				18		6	2										407
Portugal	43			43				21													21
Romania		37		37		7			3			4									14
Russia	161	124	44	329	30	15	24	418	9	4	3	14	12	1	8		9				547
Saudi Arabia																					0
Serbia																					143
Seychelles																					0
Singapore					4				4					5	5						18
Slovakia	30	37	9	76	7	33		38		5	2										85
Slovenia									2			1			1						4
South Africa	1	36		37			2	23				4			5		3		1		38
Spain	52	97		149				18													18
Sudan																					0
Sweden	23			23							2										2
Switzerland	3	21		24				10													10
Syrian Arab Republic																					0
Thailand	0			0				3	7	3			7	5	16	1					42
The FYR Macedonia																					0
Tunisia																					13
Turkey		3		3	22	1		1	7					14	12	1					58
Ukraine		15		15				15		6	3										24
United Kingdom	22	116	42	180	26	26	8	338	12				6	25	14	1	11				467
United States	27	497	8	532	10	73	146	132	21	9	3		9	208	19	33	205	14			882
Uruguay																					0
Viet Nam																					210
WMO																					31
Yemen																					0
Zambia																					0
Zimbabwe																					0
	993	2827	207	4027	558	374	483	2142	215	83	41	203	144	430	442	55	558	34	7	5769	Grand total
14124 Total General Physics	4027 Total RI				5769 Total Chemistry																23920

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

M	PR	EM	T	RI	L	QM	TF	Total
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APMP

AU			27					27
NZ			5					5
KR						5 Cat 6		5
TH				3				3
ZA	2 Pressure							2

Total APMP: 42

EURAMET

BE			25				6	31
FI	3 Torque 3 Force							6
FR	3 FI Flow		3					6
IAEA				1 RI(I)				1

Total EURAMET: 44

SIM

MX		3				1 Cat 2 & 1 Cat 4		5
AR					1 DimMet			1
CL						0		0
CA		4			11 DimMet			15
US	3	1	137		1 RI(I)			142
BR						4 Cat 7		4

Total SIM: 167

TOTAL: 253

greyed-out CMCs

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

Meanings of the 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.