

JCRB Report to the CCM Meeting

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Executive Secretary of the JCRB

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Bureau
| **I**nternational des
| **P**oids et
| **M**esures



Relevant JCRB meetings since 2015 CCM meeting



COMPLETED MEETINGS

- March 2015: 33rd JCRB (BIPM)
- Sept. 2015: 34th JCRB (Astana, Kazakhstan)
- March 2016: 35th JCRB (BIPM)
- Sept. 2015: 36th JCRB (Nairobi, Kenya)
- March 2017 (last week): 37th JCRB (BIPM)



PLANNED MEETINGS

- Sept. 2017: 38th JCRB (Bern, Switzerland)
- March 2018: 39rd JCRB (BIPM)

JCRB Outcomes

Bureau International des Poids et Mesures – the intergovernmental organization through which Member States act together on matters related to measurement science and measurement standards.

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Outcomes of JCRB meetings: JCRB Resolutions, Recommendations and Actions

JCRB outcomes | Meeting reports | KCDB reports | CIPM MRA documents | JCRB

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Summary

- General information
- Minutes of JCRB meetings
- JCRB Directory
- Photographs of the JCRB
- Terms of reference of the JCRB
- Rules of procedure for the JCRB

CBKT Initiatives

COMPLETED INITIATIVES



- 2016 BIPM-IPS joint Varenna Metrology School and METAS project
- 2016 "Leaders of Tomorrow" course
- 2016 "BIPM-GULFMET TC Workshop"
- 2017 BIPM-EURAMET TC leadership course

June - July 2016

3 participants

7-18 November 2016

18 participants

21-23 November 2016

44 participants

7-10 February 2017

18 participants

ONGOING INITIATIVES



- 2016 - 2018 "Metrology for Safe Food and Feed in Developing Economies" project
- 2016 - 2019 Metrology for clean air: capabilities in gas metrology
- 2017–2018 "Support for GULFMET key comparison of Zener voltage standards" project

3 leading NMIs + BIPM
supporting
2 GULFMET countries

FUTURE INITIATIVES



- 2017 "Sound beginning in the CIPM MRA" course
- 2018 "BIPM- TÜBİTAK UME project placements"

13-24 November 2017

Multyear
Starting from 1st quarter 2018

Guidance documents on CMCs and comparisons



[Clickable overview of the CIPM MRA documents](#)

Policy documents	Guidance on CMCs and QS	Guidance on comparisons	Complementary info.	Use of the CIPM MRA logo	JCRB
	Title	Doc. no.	Latest update		
↘	Measurement comparisons in the CIPM MRA	CIPM MRA-D-05	March 2016		
↘	Key and supplementary comparison registration and progress form (Please save to your computer and complete locally)		May 2016		
↘	CIPM MRA Guidelines for Authorship of Key, Supplementary and Pilot Study Comparison Reports	CIPM MRA-G-04	Oct. 2011		
↘	Publication of a Final Report in <i>Metrologia's Technical Supplement</i> (Please save to your computer and complete locally)		March 2016		

<http://www.bipm.org/en/cipm-mra/cipm-mra-documents/>

Changes in CIPM MRA Documents

- Changes to [CIPM MRA-D-04 Calibration and Measurement Capabilities in the context of the CIPM MRA](#) (approved at 37th JCRB Meeting):

1. Template for CMCs with uncertainty matrices was changed

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z				
1	CIPM MRA Appendix C Calibration and Measurement Capability (CMC) Declarations																													
2	Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable			Expanded Uncertainty				Reference Standard used in calibration		List of Comparisons supporting this measurement/calibration service		RMO Service Administration				Comments to be published via the database		Uncertainty Matrix		Tag for closely related CMCs		intra / inter - RMO review		
3	Quantity	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage Factor	Level of Confidence	Is the expanded uncertainty relative	Standard	Source of traceability		NMI Service Identifier	Service Category	NMI	Internal Comment								Review Status	Reviewer's Comment	NMI answer
4																														
5																														
6																														
7																														
8																														

2. Text in p.5 of section 5.3 about the possibility of **changing date for review submission** was modified in order to correspond to the present options of the system.
3. Some other minor changes in terminology and structure of the document

Review intention

- Will review ? YES
- Date for submission of review: 2017-04-30
- Change the date? Yes No
- Date for review:

- References to ISO 17034 were updated in all CIPM MRA documents

Viewing CMC Reviews

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JCRB Website (Restricted access)

Log on to the JCRB CMC website

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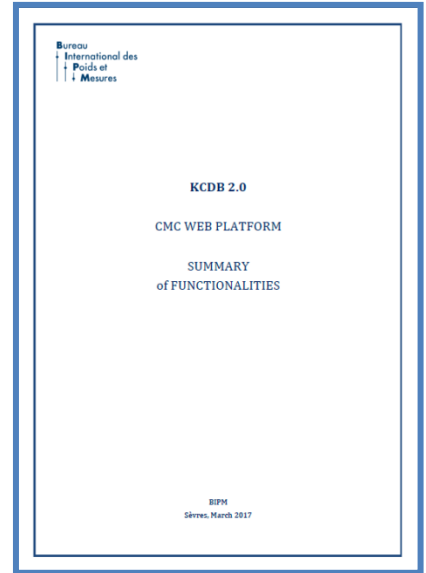
<http://www.bipm.org/JCRBCMCs/>

Login: tcgust
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KCDB 2.0

The BIPM KCDB is presently subject for a revision under the working name “KCDB 2.0”.

- The KCDB 2.0 concept is based on three modules – WRITE, REVIEW and FIND – where WRITE and REVIEW cover the submission and review processes and will be included on the CMC Web Platform. FIND covers facilities made available for the users of the open web.
- The general approach is to provide a tool to make the CMC review process more efficient. In particular, the intra-regional review presently not included in the JCRB web support will be integrated to the platform providing full tracking of the entire review process.



Action 37/04: The JCRB agrees with the proposal made by the BIPM that in KCDB 2.0 the range and uncertainty should be in a numerically searchable format, noting that this would require the transform of early CMC data and charges the BIPM to continue work on developing KCDB 2.0.

Statistics on CMCs in Mass

Database	Category	All areas	M	%
JCRB website	All CMC sets	660	163	25
JCRB website	CMC sets published since February 2015	80	17	21
KCDB (5 May 2017)	All CMC entries	24724	2754	11

Statistics on CMCs in Mass. CMC sets published since February 2015: 17 sets

AFRIMETS 1
 APMP 1
 COOMET 3
 EURAMET 8
 SIM 4

Average time for review: 153 days
 Median time for review: 130 days

Set name	RMO	Submitted on		Reviewed on		Revised on		Published on	Total
AFRIMETS.M.5.2015	AFRIMETS	21-Mar-15	39	30-Apr-15	4	04-May-15	7	11-May-15	50
APMP.M.40.2015	APMP	26-Nov-15	7	04-Dec-15	183	03-Jun-16	20	24-Jun-16	210
COOMET.M.23.2014	COOMET	21-Aug-14	52	13-Oct-14	161	23-Mar-15	28	20-Apr-15	241
COOMET.M.24.2014	COOMET	07-Nov-14	65	11-Jan-15	65	17-Mar-15	2	19-Mar-15	132
COOMET.M.25.2015	COOMET	13-Feb-15	38	24-Mar-15	7	30-Mar-15	0	31-Mar-15	45
EURAMET.M.47.2016	EURAMET	21-Jun-16	55	16-Aug-16	62	17-Oct-16	7	24-Oct-16	124
EURAMET.M.39.2015	EURAMET	23-Feb-15	55	20-Apr-15	4	24-Apr-15	3	27-Apr-15	62
EURAMET.M.43.2015	EURAMET	12-May-15	78	30-Jul-15	102	09-Nov-15	30	09-Dec-15	210
EURAMET.M.44.2015	EURAMET	12-May-15	64	16-Jul-15	5	21-Jul-15	43	02-Sep-15	112
EURAMET.M.40.2015	EURAMET	06-Apr-15	65	10-Jun-15	20	30-Jun-15	64	02-Sep-15	149
EURAMET.M.41.2015	EURAMET	10-Apr-15	65	15-Jun-15	16	30-Jun-15	63	02-Sep-15	144
EURAMET.M.45.2015	EURAMET	19-Nov-15	66	25-Jan-16	36	01-Mar-16	20	21-Mar-16	122
EURAMET.M.46.2016	EURAMET	21-Apr-16	69	29-Jun-16	84	20-Sep-16	47	07-Nov-16	200
SIM.M.31.2016	SIM	10-May-16	90	08-Aug-16	37	13-Sep-16	28	12-Oct-16	155
SIM.M.32.2016	SIM	12-May-16	87	08-Aug-16	156	10-Jan-17	20	31-Jan-17	263
SIM.M.28.2015	SIM	09-Sep-15	81	30-Nov-15	52	20-Jan-16	1	22-Jan-16	134
SIM.M.27.2015	SIM	12-Feb-15	63	17-Apr-15	211	13-Nov-15	26	10-Dec-15	300

Statistics on CMCs in Mass. CMC sets submitted since February 2015: 29 sets

AFRIMETS	1
APMP	4
COOMET	3
EURAMET	10
SIM	11

CMC set Name	RMO	STATUS	Submitted on	Published on
AFRIMETS.M.5.2015	AFRIMETS	Published in KCDB	21-Mar-15	11-May-15
APMP.M.43.2017	APMP	Review still in progress	24-Feb-17	
APMP.M.41.2016	APMP	Review still in progress	13-Jun-16	
APMP.M.42.2016	APMP	Review still in progress	14-Jun-16	
APMP.M.40.2015	APMP	Published in KCDB	26-Nov-15	24-Jun-16
COOMET.M.27.2017	COOMET	Review still in progress	23-Mar-17	
COOMET.M.28.2017	COOMET	Review still in progress	19-Apr-17	
COOMET.M.26.2015	COOMET	Review still in progress	09-Dec-15	
EURAMET.M.49.2017	EURAMET	Review still in progress	17-Apr-17	
EURAMET.M.48.2017	EURAMET	Review still in progress	27-Feb-17	
EURAMET.M.47.2016	EURAMET	Published in KCDB	21-Jun-16	24-Oct-16
EURAMET.M.43.2015	EURAMET	Published in KCDB	12-May-15	09-Dec-15
EURAMET.M.44.2015	EURAMET	Published in KCDB	12-May-15	02-Sep-15
EURAMET.M.40.2015	EURAMET	Published in KCDB	06-Apr-15	02-Sep-15
EURAMET.M.41.2015	EURAMET	Published in KCDB	10-Apr-15	02-Sep-15
EURAMET.M.42.2015	EURAMET	<i>Not approved</i>	21-Apr-15	
EURAMET.M.45.2015	EURAMET	Published in KCDB	19-Nov-15	21-Mar-16
EURAMET.M.46.2016	EURAMET	Published in KCDB	21-Apr-16	07-Nov-16
SIM.M.31.2016	SIM	Published in KCDB	10-May-16	12-Oct-16
SIM.M.32.2016	SIM	Published in KCDB	12-May-16	31-Jan-17
SIM.M.34.2016	SIM	Review still in progress	30-Dec-16	
SIM.M.37.2017	SIM	Review still in progress	31-Mar-17	
SIM.M.38.2017	SIM	Review still in progress	04-Apr-17	
SIM.M.35.2017	SIM	Review still in progress	24-Jan-17	
SIM.M.36.2017	SIM	Review still in progress	08-Mar-17	
SIM.M.33.2016	SIM	Review still in progress	08-Jul-16	
SIM.M.28.2015	SIM	Published in KCDB	09-Sep-15	22-Jan-16
SIM.M.30.2016	SIM	Review still in progress	28-Mar-16	
SIM.M.29.2016	SIM	Review still in progress	22-Mar-16	

Statistics on CMCs in Mass.

No CMC sets in status: ***Waiting for electronic approval***

No CMC sets in status: **Approved by JCRB**

COOMET.M.14.2013
Last update > 2 years
Action 33/10: RMOs contact TC chairs

COOMET. M.26.2015
1 years < last update < 2 years

Status of incomplete comparisons > 5 years old (for M)

Type	Key comparisons	Supplementary comparisons
AFRIMETS		
APMP	11	5
COOMET	2	4
EURAMET	6	4
SIM	6	17
CCM	10	
Totally for M	35	30
Totally	99	74

Since February 2016:
 2 “stuck” KCs were abandoned
 3 KCs were approved for equivalence
 4 SCs were approved and published

Complete list of comparisons in this status are listed in the KCDB report

Thank you

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