

# JCRB Report to the CCT Meeting

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Executive Secretary of the JCRB

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**B**ureau  
| **I**nternational des  
| **P**oids et  
| **M**esures



# Relevant JCRB meetings since 2014 CCT meeting



## COMPLETED MEETINGS

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



## PLANNED MEETINGS

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

# JCRB Outcomes

BIPM - JCRB Outcomes

www.bipm.org/jsp/en/JCRBOutcomes.jsp

Search facility:

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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> You are here: worldwide metrology: committee structure > Joint Committees > JCRB > Outcomes of JCRB meetings

## Outcomes of JCRB meetings: JCRB Resolutions, Recommendations and Actions

JCRB outcomes Meeting reports KCDB reports CIPM MRA documents JCRB

→ Please select a meeting or a topic using the boxes below, or enter a search term in the text box:

Select a meeting:

or a topic:

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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 1<sup>st</sup> quarter 2018

# Guidance documents on CMCs and comparisons

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

Policy documents	Guidance on CMCs and QS	<b>Guidance on comparisons</b>	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 37<sup>th</sup> 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																														
3	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		
4	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
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

**Bureau International des Poids et Mesures**

JCRB Website (Restricted access) 

Log on to the JCRB CMC website

Login name\*

Password\*

Enter JCRB CMC Website

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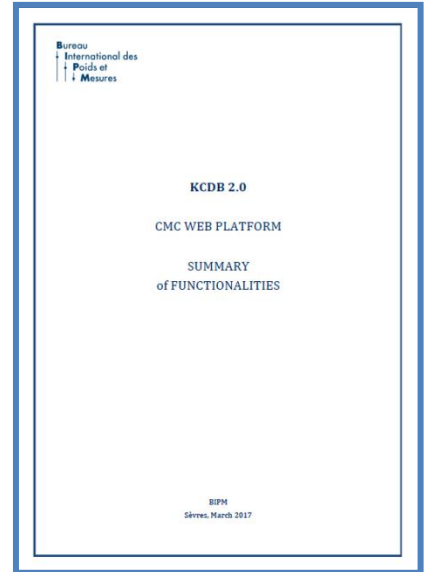
<http://www.bipm.org/JCRBCMCs/>

Login: tcgust  
Password: tcontact

# 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 Thermometry

Database	Category	All areas	T	%
JCRB website	All CMC sets	663	60	9
JCRB website	CMC sets published since May 2014	146	9	6
KCDB (24 May 2017)	All CMC entries	24817	2545	10

# Statistics on CMCs in Thermometry. CMC sets published since February 2015: 9 sets

Set name	RMO	Submitted on		Reviewed on		Revised on		Published on	Total
APMP.T.10.2014	APMP	02/06/2014	FAST TRACK					10/06/2014	8
APMP.T.11.2015	APMP	24/09/2015	27	21/10/2015	19	09/11/2015	15	24/11/2015	61
COOMET.T.11.2016	COOMET	30/05/2016	48	18/07/2016	98	24/10/2016	32	25/11/2016	178
COOMET.T.10.2014	COOMET	04/06/2014	FAST TRACK					23/06/2014	19
EURAMET.T.17.2014	EURAMET	02/06/2014	FAST TRACK					05/06/2014	3
EURAMET.T.18.2015	EURAMET	23/09/2015	28	21/10/2015	14	03/11/2015	19	23/11/2015	61
EURAMET.T.19.2016	EURAMET	29/01/2016	32	02/03/2016	80	20/05/2016	20	10/06/2016	132
EURAMET.T.20.2016	EURAMET	08/04/2016	20	29/04/2016	109	15/08/2016	28	13/09/2016	157
SIM.T.9.2015	SIM	07/10/2015	FAST TRACK					06/11/2015	30

AFRIMETS	0	EURAMET	4
APMP	2	SIM	1
COOMET	2		

Average time for review: 72 days  
Median time for review: 61 days

# Statistics on CMCs in Thermometry. CMC sets submitted since May 2014: 14 sets

CMC Set Name	RMO	Details	Status	Submitted on	Published on
APMP.T.12.2017	APMP	NIM CMC entries for SPRT and NMC CMC entries for humidity measurement	<b>Approved by JCRB</b>	14/02/2017	
APMP.T.10.2014	APMP	APMP CMCs. FAST TRACK.	Published	02/06/2014	10/06/2014
APMP.T.11.2015	APMP	CMCs on industrial thermometers	Published	24/09/2015	24/11/2015
COOMET.T.12.2017	COOMET	COOMET 2017 submission batch 1	<b>Not approved</b>	30/01/2017	
COOMET.T.11.2016	COOMET	CMCs from 3 countries	Published	30/05/2016	25/11/2016
COOMET.T.10.2014	COOMET	COOMET CMCs. FAST TRACK.	Published	04/06/2014	23/06/2014
EURAMET.T.22.2017	EURAMET	Batch of CMCs for EURAMET with some supporting information	<b>Review still in progress</b>	24/04/2017	
EURAMET.T.21.2016	EURAMET	Temperature and humidity CMCs and supporting information	<b>Not approved</b>	26/08/2016	
EURAMET.T.17.2014	EURAMET	EURAMET_CMCs_radiation_thermometry. FAST TRACK.	Published	02/06/2014	05/06/2014
EURAMET.T.18.2015	EURAMET	Radiation thermometry CMCs from 2014 review cycle	Published	23/09/2015	23/11/2015
EURAMET.T.19.2016	EURAMET	EURAMET 2015 submission batch 1	Published	29/01/2016	10/06/2016
EURAMET.T.20.2016	EURAMET	EURAMET CMCs 2015 Batch 2	Published	08/04/2016	13/09/2016
SIM.T.9.2015	SIM	SIM CMCs. FAST TRACK	Published	07/10/2015	06/11/2015
SIM.T.10.2016	SIM	Dew point hygrometers and Relative humidity sensors	<b>Not approved</b>	18/04/2016	

AFRIMETS	0	EURAMET	6
APMP	3	SIM	2
COOMET	3		

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

## Status of incomplete comparisons > 5 years old (for T) March 2017

Type	Key comparisons	Supplementary comparisons
AFRIMETS		4
APMP	3	1
COOMET		
EURAMET	4	1
SIM		3
CCT	5	2
Totally for T	12	11
Totally	99	74

Since February 2016:  
 3 KCs were approved for equivalence  
 4 SCs were approved and published

**Complete list of comparisons in this status is listed in the KCDB report**

Thank you

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