



文件编号: 04020/2025/I/WIGOS/MINT/IPC-XIV

2025 年 4 月 23 日

附件: 1 (仅以英文提供)

主题: 第十四次国际日射仪比对(IPC-XIV)以及联合举行的第四次国际大气辐射表比对(IPgC-IV)和第六次滤波辐射计比对(FRC-VI)(2025 年 9 月 22 日至 10 月 10 日, 瑞士达沃斯)

要求采取的行动: (1) 拟参加 IPC-XIV、IPgC-IV 和/FRC-VI **请尽快**在 PMOD/WRC 网站上注册
(2) 如需要, 请于 **2025 年 5 月 15 日**前向 WMO 秘书处提交资助申请
(3) 请各区域辐射中心于 **2025 年 5 月 15 日**前将附件 III 中的调查表返还 WMO 秘书处

尊敬的先生/女士,

世界气象组织(WMO)执行理事会第三十四次届会(EC-34), 通过其“**决议 13 (EC-34)** -辐射计的开发和比对”, 决定国际和区域日射仪比对(IPC 和 RPC)应每五年进行一次, 以对照世界标准组(WSG)的仪器检查运行的辐射标准的质量, 对于 RPC, 则对照区域标准仪器进行。这些比对旨在通过对世界辐射基准的可追溯性, 促进全球辐射测量的可比性。WMO 目前正在调查建立新的太阳和地球辐射基准的可行性。

我谨通知您, 应瑞士盛情邀请, 第十四次国际日射仪比对(IPC-XIV)将于 2025 年 9 月 22 日至 10 月 10 日在瑞士达沃斯世界辐射中心(WRC)举行。达沃斯 WRC 还将与 IPC-XIV 一并举办第六次滤波辐射计比对(FRC-VI)和第四次国际大气辐射表比对(IPgC-IV)。

IPC-XIV 主要校准 WMO 所有区域辐射中心(RRC)的标准日射仪。如果国家辐射中心(NRC)维护的国家标准日射仪总数低于达沃斯中心的能力, 则也将与 WSG 比对。

WRC 计划组织一次关于气象辐射测量与大气辐射的科学专题讨论会。RRC 有望在专题讨论会期间提交有关其过去五年活动的报告。

可用于支持参会者的资金非常有限。为此, 我谨敦促您考虑支付贵机构与会者的旅费和每日津贴。

不过, 我们将在 IPC-XIV 的有限资源范围内考虑资助请求。我们的目标是支持一些发展中国家的 RRC 参会, 可能的话, 支持一些发展中国家的 NRC。在 WRC 的帮助下, 我们正在计划特别安排, 以尽量减少当地的住宿费和与会者的半/全膳费用。

WMO 无法为运输仪器提供资助。

请见所附的下列附件:

- WMO 区域辐射中心名单(附件 I)

致: WMO 会员常任代表

抄送: 水文顾问

- 调查表-出席 IPC-XIV/RPC 资助申请(附件 II)
- 区域辐射中心调查表(附件 III)

若您希望提名一名辐射专家并携带一台或多台仪器参加 IPC-XIV、FRC-VI 和/或 IPgC-IV，请填写 [WRC 网站](#) 上的在线表格。WRC 将直接向您提供参会确认函。

资助申请必须于 **2025 年 5 月 15 日前由被提名专家的相关常任代表**提交 WMO 秘书处，同时返回附件 II 中的完整表格。

请主办 RRC 的会员于 **2025 年 5 月 15 日前**尽早填写并返回附件 III 中的 RRC 调查表，以提供有关 RRC 可追溯性及其遵守 RRC 职责的信息。

关于非工作人员的保险范围，谨请您注意以下几点：

获准由本组织出资旅行和/或从 WMO 领取 DSA 的非 WMO 工作人员须确保其对代表本组织公务旅行和出席会议期间因死亡、疾病或伤害发生的费用完全负责。因此，他们须全权负责为这些会议和活动期间安排人寿、健康、意外和任何其他形式的足额保险。

WMO 的责任仅限于代表本组织从事服务或出席会议，由伤害和疾病福利保险覆盖，该保险有限覆盖医疗、急诊和补充公务差旅费。

WRC 主任将直接向被提名专家发送关于 IPC-XIV、FRC-VI 和 IPgC-IV 的组织和参会条件的详细信息。关于当地安排的其他信息将在[网站](#)上提供。

谨上



寇·巴雷特博士
代秘书长

LIST OF WMO REGIONAL RADIATION CENTRES¹**Region I (Africa)**

Tamanrasset	(Algeria)
Cairo	(Egypt)
Lagos	(Nigeria)
Khartoum	(Sudan)
Tunis	(Tunisia)
Kinshasa	(Democratic Republic of the Congo)

Region II (Asia)

Pune	(India)
Tokyo	(Japan)

Region III (South America)

Buenos Aires	(Argentina)
Santiago	(Chile)
Huayao	(Peru)

Region IV (North America, Central America and the Caribbean)

Toronto	(Canada)
Mexico City	(Mexico)
Boulder	(United States of America)

Region V (South-West Pacific)

Melbourne	(Australia)
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Region VI (Europe)

Uccle	(Belgium)
Toulouse/Carpentras	(France)
Lindenberg	(Germany)
Budapest	(Hungary)
St. Petersburg	(Russian Federation)
Norrkoeping	(Sweden)
Davos	(Switzerland)

¹ See [Guide to Instruments and Methods of Observation](#) (WMO-No. 8)

QUESTIONNAIRE¹ - REQUEST FOR FINANCIAL SUPPORT

for participation at the

INTERNATIONAL AND REGIONAL PYRHELIOMETER COMPARISONS (IPC-XIV, RPCs)**WORLD RADIATION CENTRE (WRC)**

Davos, Switzerland, 22 September to 10 October 2025

Ref.: 04020/2025-1.11.10111

1. Member country**2. Radiation Centre**Regional ☐National ☐

Address

Telephone

Telefax

Email

3. Regional Radiation Centres (RRC)Instruments
composing
the regional
standard

(a)

(b)

(c)

(d)

(e)

Main
activities

2021

2022

2023

2024

2025

¹ The electronic version of the questionnaire is available [online](#).

Number of instruments calibrated by the RRC for other countries in the last five years:

List countries for which these services were provided:

4. National Radiation Centres (NRC)

Type/Model of national reference instrument

Number of instruments calibrated with the national reference instrument in the last five years:

Type/Model of instruments calibrated with national reference instrument

(a)

(b)

(c)

(d)

5. Expert² proposed for participation

Family name

Dr / Mr / Ms

First name

Address

Telephone

Email

Position presently held

6. Information on standard pyrheliometers foreseen for participation in the IPC/RPC

first priority

Type/Model

Manufacturer

Serial Number

Type/Model

² Designated experts may also consult the [WRC website](#) for more information.

second
priority

Manufacturer

Serial Number

7. Assistance is requested for

Per diem ☐

Travel ☐

8. Submitted by

Family name

First name

Email

Date

9. Permanent Representative³

Name

Date

Signature of the Permanent Representative

Please return the electronic version of the completed questionnaire
by **15 May 2025**

via email to: iruedi@wmo.int, wmo@wmo.int

Dr Isabelle Rüedi
Infrastructure Department
World Meteorological Organization
Tel: (+41) 22 730 8278

³ Signature is needed if financial assistance is requested.

QUESTIONNAIRE⁵ FOR REGIONAL RADIATION CENTRES

in preparation for the International Pyrheliometer Comparisons (IPC-XIII)

World Radiation Centre (WRC)

Davos, Switzerland, 22 September to 10 October 2025

Regional Radiation Centre

Respondent's name

Respondent's
contact details (email)

(1) How many pyrheliometers do you have in your standard group? Total:
Please provide in the table below the type and serial number (s/n)

(2) Do you know the uncertainty of each of these instruments? YES ☐ NO ☐

If yes, how was the uncertainty obtained for each of the instruments?
Please answer to this question in the table below.

Pyrheliometers

	type and s/n	uncertainty known		uncertainty obtained by
(a)	type s/n	yes ☐	no ☐	
(b)	type s/n	yes ☐	no ☐	
(c)	type s/n	yes ☐	no ☐	
(d)	type s/n	yes ☐	no ☐	
(e)	type s/n	yes ☐	no ☐	

(3) What type of data acquisition system do you use for the standard group?

⁵ The electronic version of the questionnaire is available [online](#).

(4) How frequently do you calibrate your data acquisition system for the standard group?

When was it last calibrated?

Date:

(5) How many people are involved in maintaining and using the standard group?

a) What are the qualifications of these people?

b) What metrology training have these people received?

(6) Does your RRC have a quality management system
(e.g. ISO 17025, ISO 9001, or internal procedures)?

YES: ☐

NO: ☐

If yes, briefly describe your quality management system.

(7) Is the RRC audited in any way (internally or externally)?

YES: ☐

NO: ☐

If yes: When was it last audited?

Date:

(8) How frequently do you intercompare the radiometers of your standard group?

(a) What are the results of the latest intercomparison?

(b) Did any of the standard radiometers change with respect to the group and by how much?

(9) How do you maintain the traceability of your standard group to the WRR?

How many of your standard group instruments have participated in an IPC/RPC?

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- (10) What would you find most useful in a training course/symposium on radiation measurement?
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Please return the electronic version of the completed questionnaire
by **15 May 2025**
via email to: iruedi@wmo.int, wmo@wmo.int

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World Meteorological Organization
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