Key comparison CCPR-K1.a

MEASURAND : Spectral irradiance **WAVELENGTH : 250 nm to 2500 nm**

The comparison was carried out independently at each wavelength.
At any one wavelength, the analysis is based on a model that regards each lamp as having a stable spectral irradiance and the measurement results provided by a participant as systematically influenced by a common factor. The value measured by a participant is an estimate of the lamp irradiance multiplied by the systematic factor of this participant.

Each lamp was measured on one or two occasions by a participant (considered as one or two rounds) and on one or two occasions (rounds) by the pilot. Each measurement of a lamp is described by the model equation $x_{irk} = E_k\ S_i\ e_{irk}$, where x_{irk} is the measurement result of participant i in round r of lamp k, E_k the irradiance of lamp k, S_i the systematic factor associated with all measurements by participant i, and e_{irk} the random- and round-dependent effects associated with this measurement of this lamp.
The aim of the analysis is to provide the best estimate of the systematic factor, S_i, for each participant. This is achieved by solving, by least squares adjustment, a set of linked equations relating the participant's measured values to the lamp irradiances and systematic factors under a constraint, which defines the key comparison reference value. Since the comparison consists of many separate artefacts, the key comparison reference value is itself unrelated to a physical artefact.

The key comparison reference value is calculated as the weighted geometric mean (with a cut-off) of the estimated systematic factors. It is stipulated to be unity by a special choice of the constraint equation. The method is described in the Final Report.

The degree of equivalence of laboratory i with respect to the key comparison reference value is given by a pair of terms: D_i, the difference between the estimated systematic factor for that participant and the key comparison reference value, being unity, and U_i, its expanded uncertainty at a 95 % level of confidence (see section 17.6.2 of the Final Report). D_i and U_i are expressed in relative units.

Key comparison CCPR-K1.a.1

MEASURAND : Spectral irradiance **WAVELENGTH : 250 nm to 1600 nm**

CCPR-K1.a.1 is a subsequent bilateral key comparison to CCPR-K1.a, between NMIA and SPRING Singapore.
At any one common wavelength to both comparisons, the degree of equivalence of SPRING Singapore relative to the CCPR-K1.a reference value is computed using the NMIA results obtained in both comparisons, as explained in Section 9 of the CCPR-K1.a.1 Final Report (pages 20 to 24). This makes it possible to extend the CCPR-K1.a graphs of equivalence with one additional point from SPRING Singapore.

Key comparison EURAMET.PR-K1.a.1

MEASURAND : Spectral irradiance **WAVELENGTH : 290 nm to 900 nm**

EURAMET.PR-K1.a.1 is a subsequent bilateral key comparison to CCPR-K1.a, between MIKES and NIMT.
At any one common wavelength to both comparisons, the degree of equivalence of NIMT relative to the CCPR-K1.a reference value is computed using the MIKES (referred to as "HUT" at the time of the CCPR-K1.a key comparison) results obtained in both comparisons, as explained in the Appendix A on page 12 of the EURAMET.PR-K1.a.1 Final Report. This makes it possible to extend the CCPR-K1.a graphs of equivalence with one additional point from NMIT.

Key comparison APMP.PR-K1.a.1

MEASURAND : Spectral irradiance **WAVELENGTH : 250 nm to 2500 nm**

APMP.PR-K1.a.1 is a subsequent bilateral key comparison to CCPR-K1.a, between KRISS and VNIIOFI.
At any one common wavelength to both comparisons, the degree of equivalence of KRISS relative to the CCPR-K1.a reference value is computed using the VNIIOFI results obtained in both comparisons, as explained in Section 6.2 and in Appendix C of the APMP.PR-K1.a.1 Final Report. This makes it possible to extend the CCPR-K1.a graphs of equivalence with one additional point from KRISS.

Key comparison EURAMET.PR-K1.a

MEASURAND : Spectral irradiance **WAVELENGTH : 250 nm to 2500 nm**

EURAMET.PR-K1.a is a subsequent key comparison to CCPR-K1.a, between the NPL, PTB, INM-RO, METAS, SP, VNIIOFI and the VSL.
At any one common wavelength to both comparisons, the degree of equivalence of the NMIs relative to the CCPR-K1.a reference value is computed using the NPL and PTB results obtained in both comparisons, as explained in Section 4 of the EURAMET.PR-K1.a Final Report (pages 8 to 13). This makes it possible to extend the CCPR-K1.a graphs of equivalence with the results obtained by the EURAMET.PR-K1.a comparison.

Degrees of Equivalence for CCPR-K1.a, CCPR-K1.a.1, APMP.PR-K1.a.1, EURAMET.PR-K1.a and EURAMET.PR-K1.a

D $_i$ **and** ***U*** $_i$ **are given in %.**

	250 nm		260 nm		270 nm		280 nm		290 nm		300 nm		310 nm		320 nm	
	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i
LNE-INM	-	-	-	-	-	-	-	-	-	-	-3.80	3.70	-0.50	3.80	0.80	3.90
CENAM	-1.30	13.70	-1.20	9.60	-0.70	7.80	-2.40	7.40	-0.90	7.30	-1.30	7.10	-0.90	7.00	-0.30	6.90
NMIA	0.40	3.40	0.50	2.10	0.40	1.80	1.50	1.80	0.60	1.60	0.80	1.50	0.60	1.50	0.80	1.40
HUT (MIKES)	-	-	-	-	-	-	-	-	1.80	2.40	1.10	1.60	0.50	1.60	0.20	1.40
IFA-CSIC (IO CSIC)	-	-	-	-	-	-	-	-	-	-	0.10	5.00	-0.60	4.30	0.20	4.10
MSL	-0.20	2.70	0.30	2.40	0.40	2.30	0.40	2.20	0.10	2.10	0.20	2.00	0.20	2.00	0.20	1.90
NIM	0.90	2.10	-1.20	1.50	-0.80	1.40	-0.20	1.40	-0.60	1.40	-0.90	1.30	-0.80	1.40	-1.00	1.30
NIST	-0.70	2.00	0.00	1.80	0.00	1.70	-0.30	1.70	0.00	1.60	0.00	1.50	0.20	1.50	-0.10	1.40
NMIJ	2.70	3.50	1.90	3.20	1.20	3.10	1.50	3.10	1.30	3.10	1.30	3.10	1.30	3.10	1.20	3.00
NRC	-1.30	8.20	-3.90	5.50	-2.70	4.70	-3.40	3.80	-2.60	3.20	-1.60	19.90	-2.20	14.00	-3.40	11.90
PTB	-0.60	1.70	0.00	1.40	0.00	1.30	-0.80	1.40	-0.10	1.40	-0.10	1.30	0.00	1.20	-0.20	1.20
SPRING (A*STAR)	-1.40	4.00	-0.10	3.30	-0.30	3.20	1.00	3.30	-0.10	3.10	0.10	2.80	-0.10	2.70	0.00	2.70
NIMT	-	-	-	-	-	-	-	-	6.20	6.60	5.80	5.60	4.30	5.60	3.20	5.60
KRISS	-0.20	4.40	1.20	3.10	0.50	2.60	0.70	2.40	0.10	2.10	0.50	2.00	-0.30	2.00	0.10	1.90
NPL 2010	-0.76	2.85	-0.74	2.56	-1.02	2.51	-1.76	2.50	-0.90	2.46	-0.75	2.37	-0.80	2.31	-1.03	2.32
INM-RO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
METAS	-2.28	6.52	-3.75	4.24	-3.83	4.18	-3.84	4.07	-2.94	4.11	-2.58	4.01	-2.21	3.89	-1.66	3.78
SP	2.95	4.20	3.22	3.71	3.00	3.37	3.23	3.19	2.98	2.95	3.16	2.78	2.69	2.60	3.00	2.53
VNIIOFI	-1.00	2.91	-0.73	2.42	-0.64	2.19	0.56	2.19	-0.80	2.10	-0.72	2.04	-0.45	1.94	-0.70	1.89
VSL	-1.42	3.81	-0.93	3.15	-0.86	3.33	-1.85	2.99	-1.40	2.92	-1.50	2.78	-1.66	2.70	-1.57	2.63

	330 nm		340 nm		350 nm		360 nm		370 nm		380 nm		390 nm		400 nm	
	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i
LNE-INM	0.90	2.60	1.20	2.60	0.20	2.60	0.80	2.60	0.60	2.60	0.70	2.60	0.50	2.60	0.40	2.10
CENAM	-0.40	6.70	-0.50	6.60	-0.50	6.50	-0.50	6.40	-0.60	6.40	-0.60	6.20	-0.60	5.60	-0.70	5.10
NMIA	0.70	1.30	0.80	1.20	0.70	1.20	0.70	1.10	0.60	1.00	0.60	1.00	0.50	0.90	0.60	0.90
HUT (MIKES)	0.00	1.30	-0.20	1.30	-0.20	1.30	-0.30	1.30	-0.40	1.20	-0.50	1.20	-0.50	1.20	-0.50	1.10
IFA-CSIC (IO CSIC)	-0.10	3.70	-0.30	3.80	-0.40	3.40	-0.60	3.40	-0.70	3.30	-0.70	3.40	-0.70	3.40	-0.60	3.30
MSL	0.30	1.80	0.20	1.70	0.20	1.60	0.30	1.50	0.20	1.50	0.50	1.50	0.50	1.50	0.30	1.50
NIM	-0.80	1.20	-0.90	1.20	-1.00	1.20	-0.90	1.10	-0.90	1.10	-1.00	1.10	-0.80	1.10	-0.90	1.10
NIST	-0.20	1.40	-0.30	1.30	-0.30	1.30	-0.40	1.20	-0.30	1.20	-0.50	1.20	-0.20	1.20	-0.10	1.10
NMIJ	1.20	3.00	1.10	3.00	1.20	3.00	1.20	3.00	1.20	3.00	1.40	3.00	1.80	3.00	1.20	2.90
NRC	-4.80	9.70	-5.00	7.80	-0.40	6.20	-0.80	6.10	-0.10	6.20	1.30	6.30	0.10	6.20	0.30	4.30
PTB	-0.30	1.10	-0.30	1.10	-0.10	1.10	-0.10	1.00	-0.10	1.00	-0.10	0.90	-0.10	0.90	-0.10	0.90
SPRING (A*STAR)	0.00	2.70	0.20	2.70	0.20	2.20	0.00	2.10	-0.10	2.10	-0.10	2.10	-0.10	2.10	0.00	1.90
NIMT	2.30	5.60	1.90	5.60	2.10	5.50	2.00	5.50	2.50	5.60	2.80	5.50	3.30	5.50	3.50	5.40
KRISS	0.00	1.70	0.00	1.60	0.30	1.50	0.50	1.40	-	-	0.70	1.40	-	-	0.40	1.30
NPL 2010	-1.16	2.29	-1.02	2.25	-0.78	2.30	-0.96	2.12	-1.05	2.12	-1.08	2.17	-1.20	2.13	-0.93	2.11
INM-RO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.21	2.70
METAS	-1.95	3.77	-2.01	3.76	-1.18	3.76	-1.29	3.19	-1.13	3.18	-1.15	3.18	-1.34	3.09	-1.21	3.09
SP	2.77	2.46	2.63	2.40	2.58	2.34	2.30	2.22	2.23	2.19	1.88	2.18	1.73	2.15	1.89	2.15
VNIIOFI	-0.57	1.83	-0.34	1.79	-0.24	1.77	-0.05	1.59	-0.16	1.55	0.07	1.54	0.17	1.50	0.02	1.49
VSL	-1.26	2.55	-1.49	2.51	-1.35	2.19	-2.18	2.06	-2.00	2.10	-1.99	2.62	-2.03	2.00	-1.92	2.00

Degrees of Equivalence for CCPR-K1.a, CCPR-K1.a.1, APMP.PR-K1.a.1, EURAMET.PR-K1.a and EURAMET.PR-K1.a

D $_i$ **and** ***U*** $_i$ **are given in %.**

	450 nm		500 nm		550 nm		555 nm		600 nm		650 nm		700 nm		750 nm	
	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i
LNE-INM	1.20	2.20	0.60	2.00	0.40	2.00	0.80	2.00	0.10	2.00	-0.20	2.00	-0.20	2.00	0.00	2.00
CENAM	-0.50	4.70	-0.90	4.20	-0.90	3.90	-0.90	3.90	-0.90	3.80	-0.90	3.50	-1.00	3.40	-0.80	3.20
NMIA	0.30	0.80	0.40	0.70	0.30	0.70	0.20	0.60	0.00	0.70	0.00	0.70	-0.20	0.70	-0.10	0.80
HUT (MIKES)	-0.30	0.80	-0.10	0.80	0.00	0.80	0.00	0.70	-0.10	0.70	-0.10	0.70	0.00	0.70	0.20	0.70
IFA-CSIC (IO CSIC)	-0.60	3.30	-0.50	3.40	-0.40	3.50	-0.20	3.70	-0.70	3.50	-0.90	3.70	-0.80	3.30	-0.90	3.10
MSL	0.10	1.50	-0.10	1.50	0.30	1.50	-0.10	1.40	0.40	1.40	0.20	1.50	0.00	1.40	0.10	1.50
NIM	0.40	1.10	0.10	1.00	0.10	1.00	0.20	1.00	0.70	1.00	0.60	0.90	0.80	0.90	-0.30	1.00
NIST	-0.30	1.00	-0.20	1.00	-0.40	0.90	-0.10	0.90	-0.30	0.80	-0.10	0.80	-0.20	0.70	-0.30	0.70
NMIJ	0.80	2.90	0.80	2.90	0.80	2.90	-	-	0.50	2.90	0.40	2.90	-0.40	2.90	-0.10	2.90
NRC	1.30	4.40	0.70	3.60	-0.20	3.60	-	-	0.50	3.60	-0.80	3.50	0.10	1.90	0.00	1.80
PTB	-0.40	0.90	-0.30	0.80	-0.20	0.80	-0.30	0.80	-0.30	0.80	-0.30	0.80	-0.40	0.80	-0.30	0.80
SPRING (A*STAR)	-0.30	1.80	-0.10	1.70	-0.10	1.80	-	-	-0.50	1.60	-0.40	1.60	-0.70	1.60	-0.40	1.60
NIMT	4.50	3.20	3.70	3.20	3.10	3.20	-	-	2.20	3.90	2.20	3.90	2.30	3.90	2.20	3.80
KRISS	0.20	1.30	0.40	1.20	0.40	1.10	-	-	0.30	1.10	0.40	1.00	0.50	1.00	-	-
NPL 2010	-0.50	1.40	-0.39	1.31	-0.18	1.29	-0.24	1.29	-0.27	1.26	-0.32	1.26	-0.40	1.23	-0.33	1.21
INM-RO	5.01	2.25	3.94	2.22	2.98	2.22	2.74	2.22	2.84	2.20	2.93	2.21	3.02	2.19	3.17	2.18
METAS	-0.88	2.85	-0.83	2.74	-0.74	2.74	-0.71	2.70	-0.64	2.64	-0.62	2.57	-0.53	2.56	-0.35	2.47
SP	1.81	1.97	2.23	1.92	2.64	1.88	2.60	1.88	2.51	1.84	2.14	1.85	1.74	1.82	1.75	1.79
VNIIOFI	-0.34	1.29	-0.03	1.21	0.24	1.17	0.16	1.17	0.12	1.13	-0.03	1.12	0.02	1.08	-0.02	1.05
VSL	-1.36	1.71	-1.08	1.65	-0.82	1.69	-0.95	1.53	-0.97	1.40	-0.83	1.38	-1.06	1.19	-0.98	1.26

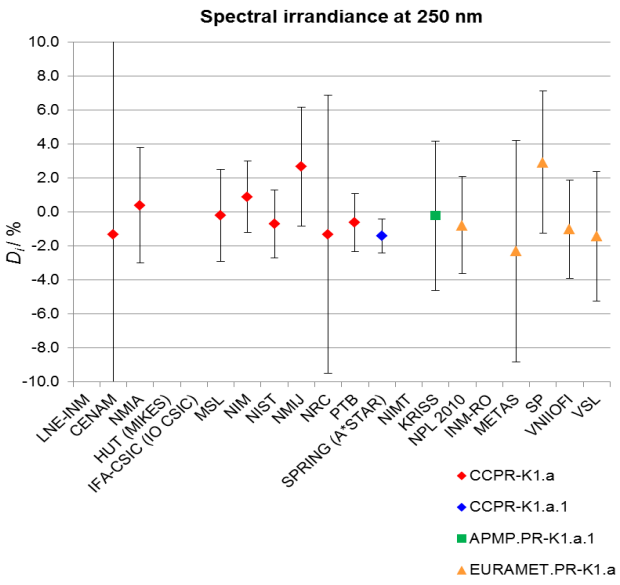
	800 nm		850 nm		900 nm		950 nm		1000 nm		1100 nm		1200 nm		1300 nm	
	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i
LNE-INM	-0.80	2.00	-0.40	1.90	-0.10	1.90	0.00	1.90	0.20	1.90	-0.40	2.20	0.30	2.10	0.20	2.10
CENAM	-0.90	4.00	-1.50	4.00	-2.10	3.90	-2.50	3.80	-2.90	4.10	-3.60	4.00	-3.90	4.00	-3.80	3.90
NMIA	-0.10	0.80	0.00	1.00	0.00	1.00	-0.10	1.00	-0.10	1.10	-0.40	1.20	-0.70	1.30	-0.50	1.40
HUT (MIKES)	0.20	0.70	0.30	0.70	0.10	0.70	-	-	-	-	-	-	-	-	-	-
IFA-CSIC (IO CSIC)	-0.80	3.10	-1.00	3.90	-1.10	3.80	-1.40	3.80	-1.40	3.80	-1.40	4.70	-1.70	4.50	-2.00	4.00
MSL	0.00	1.40	0.20	1.60	-	-	-	-	-	-	-	-	-	-	-	-
NIM	-0.20	1.00	-1.30	1.00	-1.70	1.00	-1.20	1.00	-1.40	1.00	-1.20	0.90	-0.40	0.80	-0.60	0.80
NIST	-0.10	0.60	-0.20	0.70	-0.10	0.60	-0.10	0.60	-0.10	0.60	-0.20	0.50	-0.50	0.50	-0.40	0.50
NMIJ	-0.10	2.90	0.10	2.90	0.30	2.90	0.30	2.90	0.10	2.90	-0.20	2.90	-1.10	2.90	-1.00	2.90
NRC	-0.20	1.80	-0.20	1.90	-0.20	1.80	-0.40	1.80	-0.40	1.80	-0.50	1.60	-1.20	2.30	-1.10	2.30
PTB	-0.40	0.80	-0.30	0.70	-0.40	0.70	-0.20	0.70	-0.40	0.70	-0.40	1.00	-0.40	1.00	-0.70	1.00
SPRING (A*STAR)	-0.60	1.50	-0.50	1.80	0.30	1.70	0.00	1.80	0.00	1.80	-0.10	1.80	-0.50	1.70	-0.40	1.70
NIMT	-0.20	3.80	-2.30	6.20	-3.70	6.10	-	-	-	-	-	-	-	-	-	-
KRISS	0.80	1.10	-	-	1.00	1.00	1.00	1.10	1.10	1.10	1.30	1.30	1.10	1.30	1.20	1.20
NPL 2010	-0.51	1.21	-0.27	0.91	-0.32	0.84	-0.15	0.85	-0.22	0.82	-0.24	0.90	-0.36	0.95	-0.35	0.90
INM-RO	3.24	2.18	3.52	2.14	3.53	2.11	-	-	-	-	-	-	-	-	-	-
METAS	-0.38	2.40	-0.09	2.35	-0.01	2.33	-0.02	2.34	0.00	2.33	-0.03	2.35	-	-	-	-
SP	1.99	1.90	2.15	2.21	2.17	2.28	2.60	2.34	2.73	2.36	2.71	2.28	3.02	2.30	2.49	2.30
VNIIOFI	-0.17	1.03	-0.06	0.92	-0.08	0.85	0.02	0.87	0.02	0.85	0.21	0.88	0.05	0.93	0.17	0.90
VSL	-0.99	1.26	-0.88	1.25	-0.95	1.04	-0.99	1.04	-0.93	1.17	-0.93	2.54	-0.89	2.22	-1.02	3.05

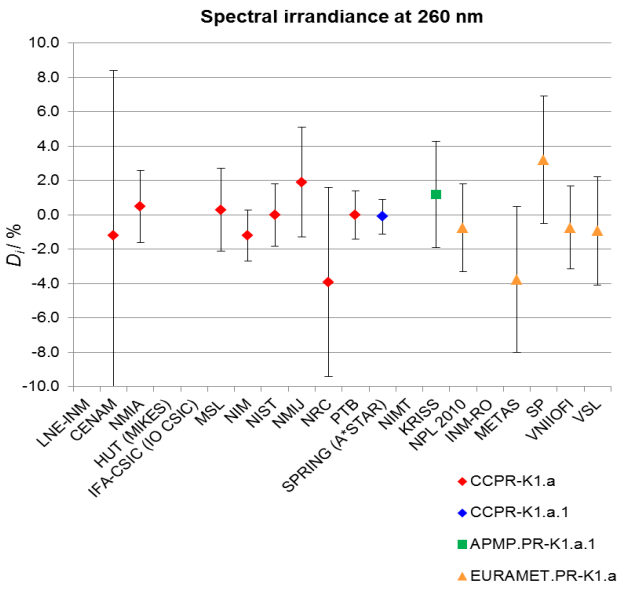
Degrees of Equivalence for CCPR-K1.a, CCPR-K1.a.1, APMP.PR-K1.a.1, EURAMET.PR-K1.a and EURAMET.PR-K1.a

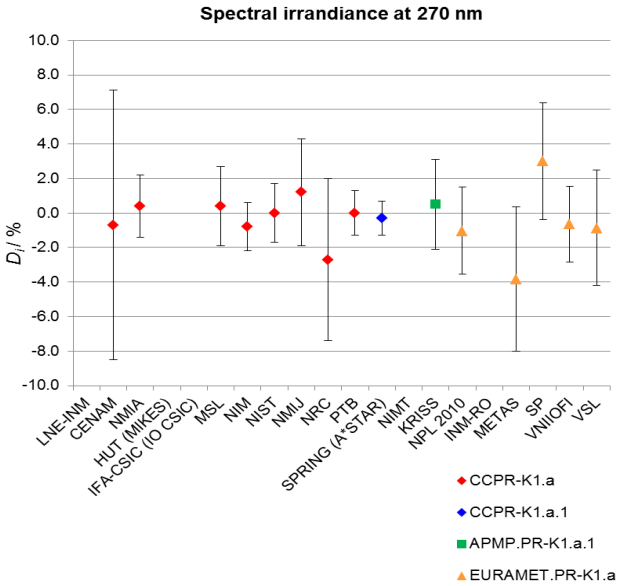
D $_i$ **and** ***U*** $_i$ **are given in %.**

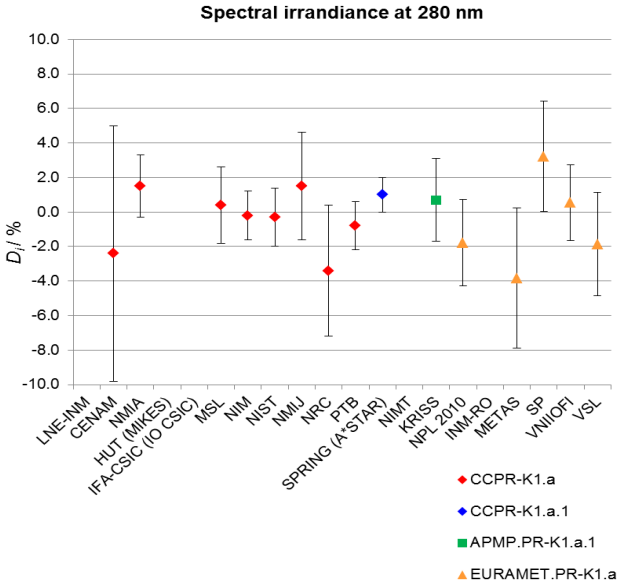
	1400 nm		1500 nm		1600 nm		1700 nm		1800 nm		1900 nm		2000 nm		2100 nm	
	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i
LNE-INM	-0.10	2.10	-0.10	2.60	0.10	2.60	0.10	2.60	-0.10	3.00	-0.70	2.90	-0.40	2.10	-1.10	2.00
CENAM	-2.80	3.90	-2.20	3.90	-0.90	4.00	-0.50	4.00	0.00	4.00	0.50	4.00	0.50	5.60	-0.10	5.60
NMIA	-0.60	1.50	-0.40	1.50	-0.20	1.90	-0.60	2.10	-0.60	2.80	-0.20	2.50	0.50	2.80	0.30	2.80
HUT (MIKES)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IFA-CSIC (IO CSIC)	-2.30	4.20	-2.40	4.20	-2.60	4.00	-4.50	4.50	-3.70	4.40	-3.40	4.20	-3.00	4.20	-3.10	4.30
MSL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NIM	-1.60	0.90	-0.90	0.90	-1.00	0.90	-1.10	0.90	-1.50	0.90	-1.30	1.00	-1.20	1.00	-0.70	1.00
NIST	-0.30	0.50	-0.20	0.50	-0.20	0.50	-0.10	0.50	-0.10	0.50	-0.10	0.60	-0.10	0.60	-0.40	0.60
NMIJ	0.50	2.90	-1.30	2.90	-1.20	2.90	-1.20	2.80	-0.90	2.90	0.90	2.90	0.30	3.00	-0.20	3.10
NRC	-0.90	2.40	-1.20	2.30	-1.40	2.30	-1.90	2.90	-1.90	2.80	-2.80	4.20	-2.30	3.40	-2.40	3.90
PTB	0.60	2.20	-0.70	2.20	-0.50	2.20	-0.60	2.20	0.00	2.20	0.70	2.30	-0.60	2.30	-0.60	2.70
SPRING (A*STAR)	-1.00	2.10	-0.90	2.10	-0.10	2.00	-	-	-	-	-	-	-	-	-	-
NIMT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KRISS	-	-	1.40	1.30	1.40	1.50	1.00	1.60	-	-	-	-	1.60	1.80	2.20	2.20
NPL 2010	0.39	2.09	-0.10	0.94	0.10	0.98	0.07	1.60	0.34	1.63	0.37	1.73	0.04	1.86	0.06	1.96
INM-RO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
METAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP	2.91	2.79	2.61	2.43	2.71	2.52	2.82	2.82	2.89	2.97	2.41	3.16	2.59	3.37	2.60	3.76
VNIIOFI	0.38	1.76	0.24	0.96	0.49	1.02	0.27	1.41	0.11	1.46	0.27	1.60	-0.59	1.75	-0.51	1.84
VSL	-0.96	3.91	-0.64	3.25	-0.41	2.56	-0.70	3.10	-1.06	3.22	-0.71	3.83	-1.13	4.47	-	-

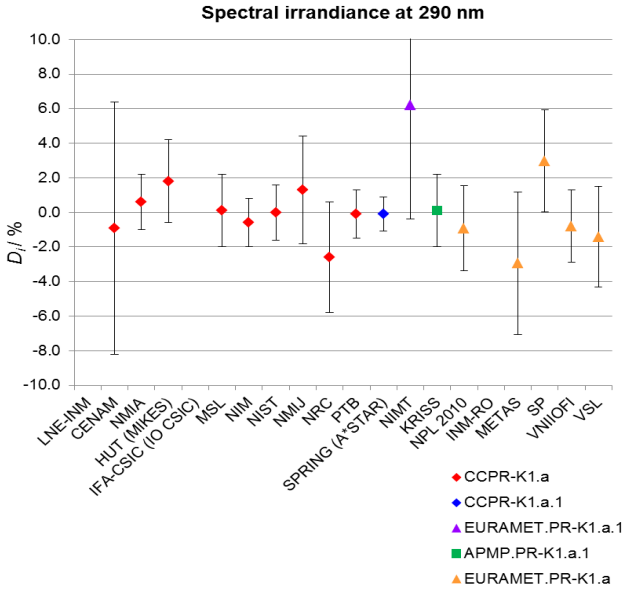
	2200 nm		2300 nm		2400 nm		2500 nm	
	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i
LNE-INM	-0.60	2.00	-0.60	2.10	-0.50	2.10	0.10	2.20
CENAM	-1.10	5.50	-0.50	5.50	0.10	5.70	0.40	5.70
NMIA	-0.70	2.70	-0.10	3.10	0.90	3.70	1.00	3.50
HUT (MIKES)	-	-	-	-	-	-	-	-
IFA-CSIC (IO CSIC)	-4.50	5.40	-	-	-	-	-	-
MSL	-	-	-	-	-	-	-	-
NIM	-0.20	1.00	-1.10	0.90	-1.40	1.10	-2.10	1.60
NIST	0.20	0.60	0.30	0.70	0.10	0.80	-0.50	1.40
NMIJ	-1.20	2.90	0.00	3.00	0.70	3.40	5.80	5.90
NRC	-2.10	4.30	-1.90	4.90	-0.90	5.50	-1.10	8.90
PTB	-1.50	2.60	-1.00	2.70	-0.10	2.60	-0.10	2.80
SPRING (A*STAR)	-	-	-	-	-	-	-	-
NIMT	-	-	-	-	-	-	-	-
KRISS	-	-	1.40	2.50	1.70	3.40	2.50	3.70
NPL 2010	-0.27	1.84	0.05	1.89	0.99	2.07	0.32	3.20
INM-RO	-	-	-	-	-	-	-	-
METAS	-	-	-	-	-	-	-	-
SP	2.44	4.15	2.57	4.60	3.42	5.19	2.84	6.15
VNIIOFI	-0.77	1.84	0.03	2.00	0.40	2.29	0.17	3.13
VSL	-	-	-	-	-	-	-	-

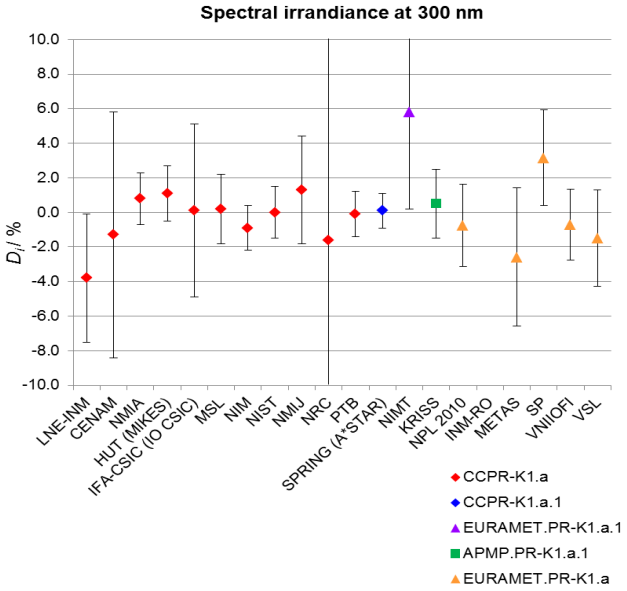

Spectral irradiance at 250 nm
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
D_i / %
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
APMP.PR-K1.a.1
EURAMET.PR-K1.a

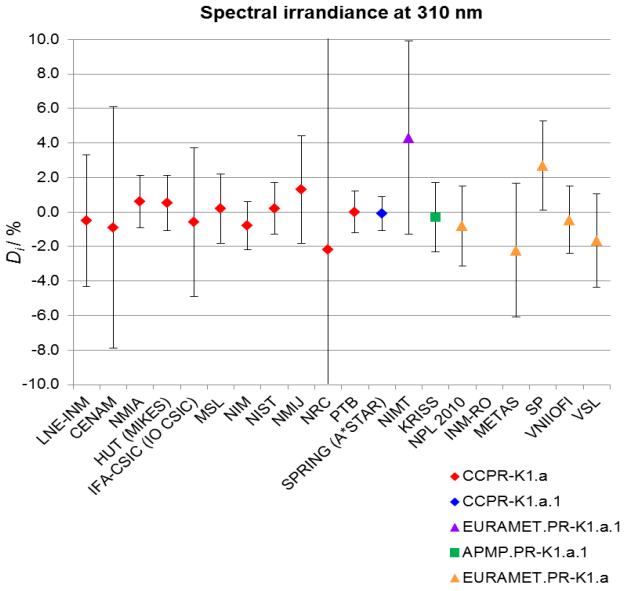

Spectral irradiance at 260 nm
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
D_i / %
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
APMP.PR-K1.a.1
EURAMET.PR-K1.a

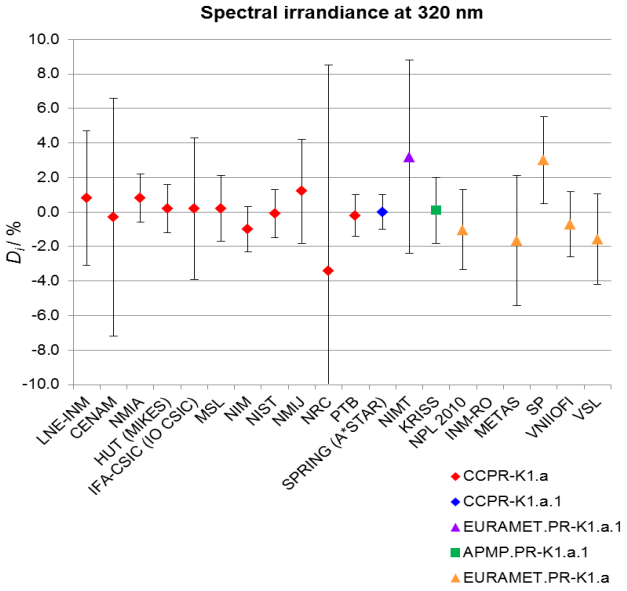

Spectral irradiance at 270 nm
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
D_i / %
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
APMP.PR-K1.a.1
EURAMET.PR-K1.a

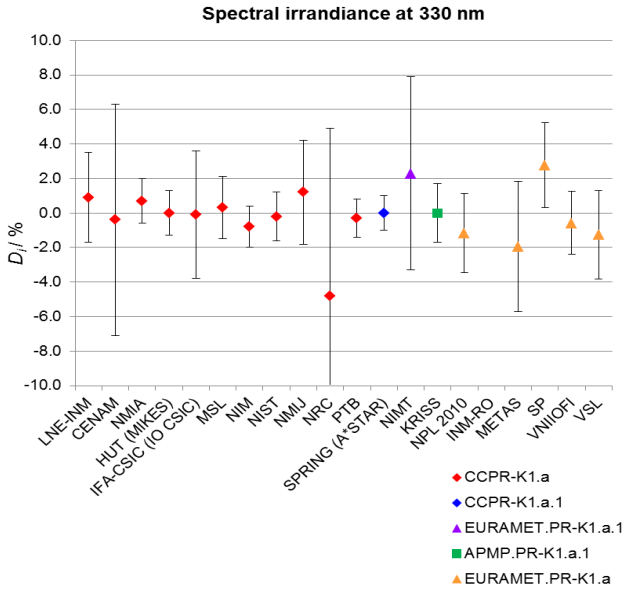

Spectral irradiance at 280 nm
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
D_i / %
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
APMP.PR-K1.a.1
EURAMET.PR-K1.a

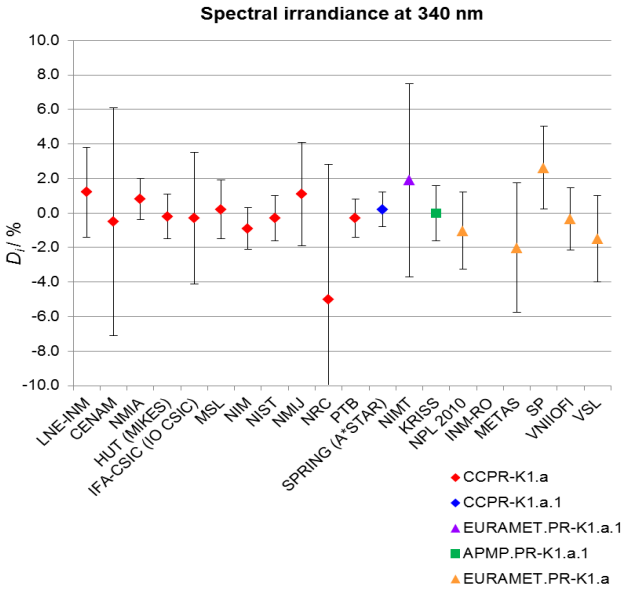

Spectral irradiance at 290 nm
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
D_i / %
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
EURAMET.PR-K1.a.1
APMP.PR-K1.a.1
EURAMET.PR-K1.a

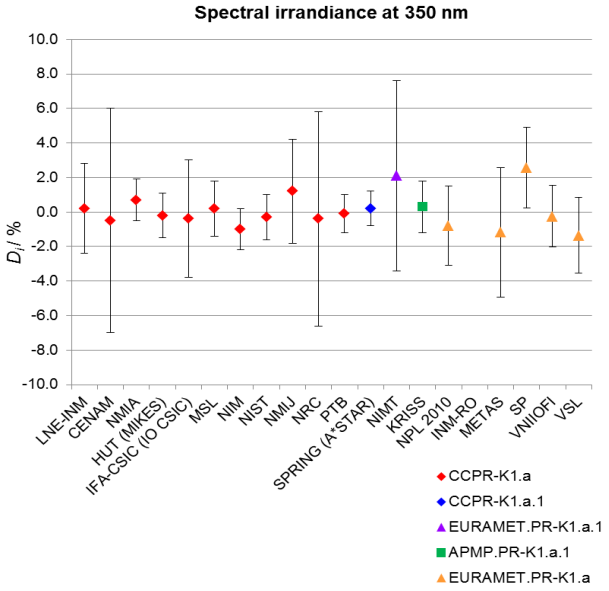

Spectral irradiance at 300 nm
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
D_i / %
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
EURAMET.PR-K1.a.1
APMP.PR-K1.a.1
EURAMET.PR-K1.a

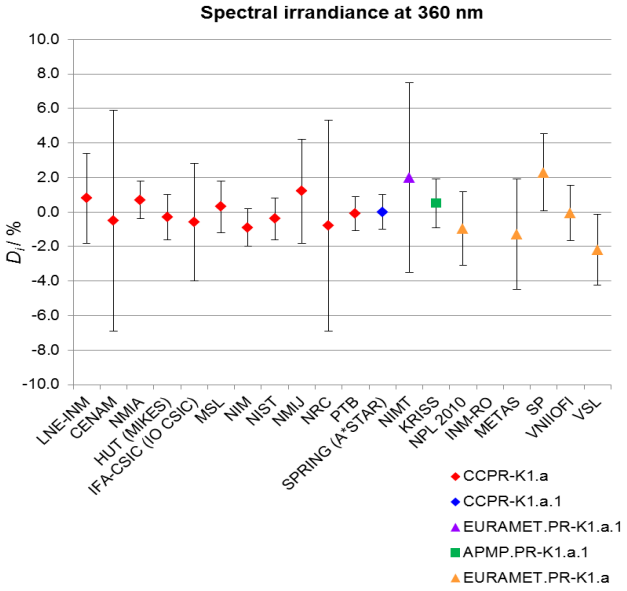

Spectral irradiance at 310 nm
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
D_i / %
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
EURAMET.PR-K1.a.1
APMP.PR-K1.a.1
EURAMET.PR-K1.a

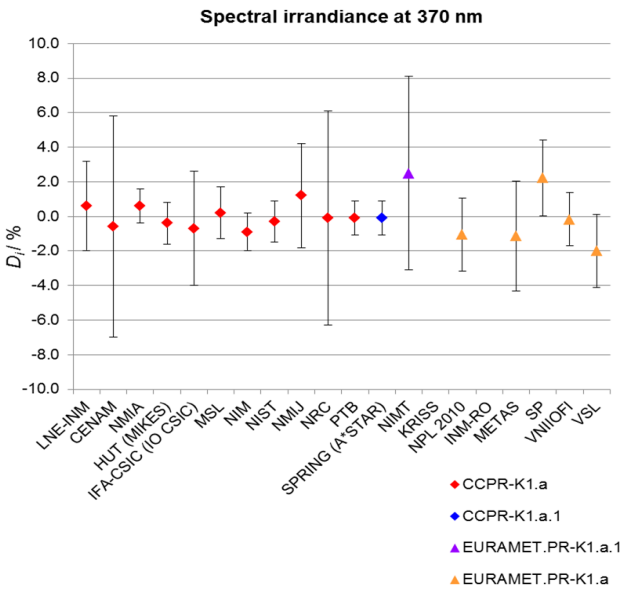

Spectral irradiance at 320 nm
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
D_i / %
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
EURAMET.PR-K1.a.1
APMP.PR-K1.a.1
EURAMET.PR-K1.a

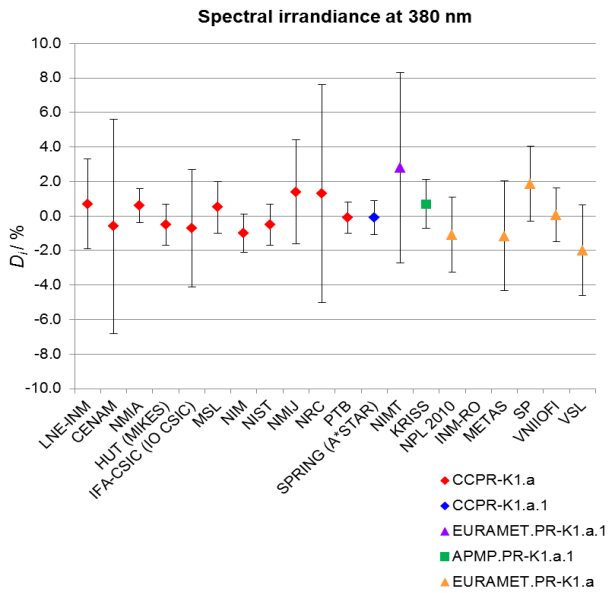

Spectral irrandiance at 330 nm
D_i / %
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
EURAMET.PR-K1.a.1
APMP.PR-K1.a.1
EURAMET.PR-K1.a

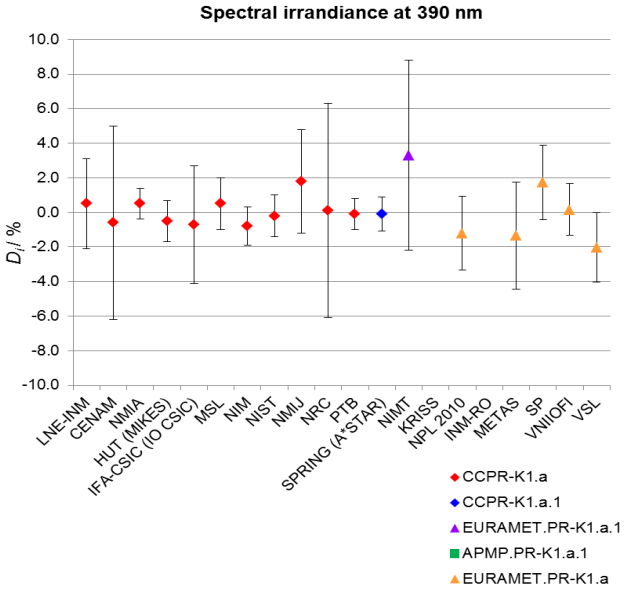

Spectral irrandiance at 340 nm
D_i / %
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
EURAMET.PR-K1.a.1
APMP.PR-K1.a.1
EURAMET.PR-K1.a

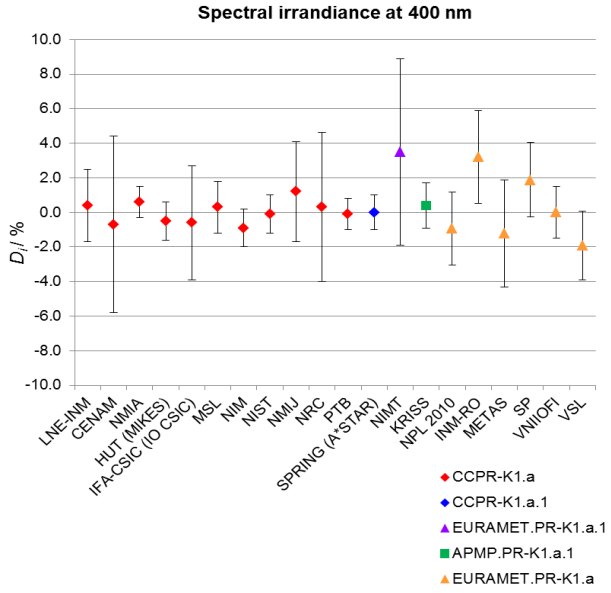

Spectral irrandiance at 350 nm
D_i / %
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
EURAMET.PR-K1.a.1
APMP.PR-K1.a.1
EURAMET.PR-K1.a

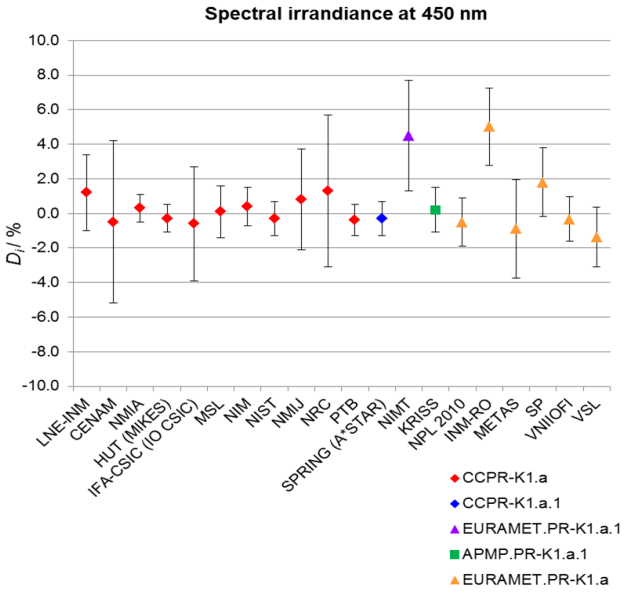

Spectral irrandiance at 360 nm
D_i / %
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
EURAMET.PR-K1.a.1
APMP.PR-K1.a.1
EURAMET.PR-K1.a

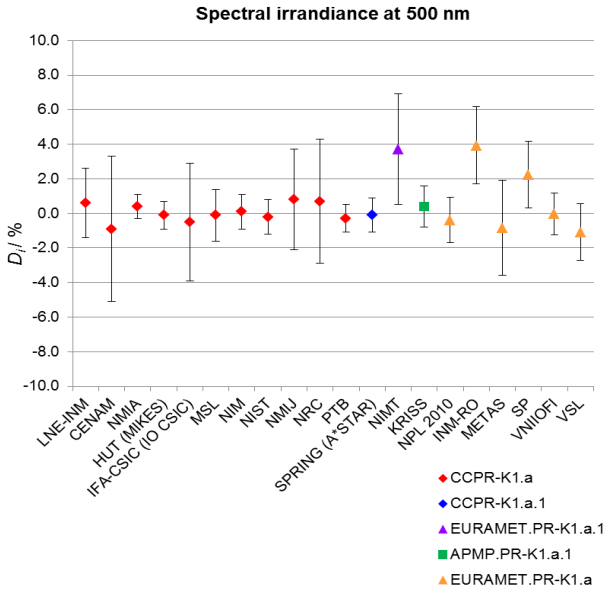

Spectral irrandiance at 370 nm
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
D_i / %
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
EURAMET.PR-K1.a.1
EURAMET.PR-K1.a

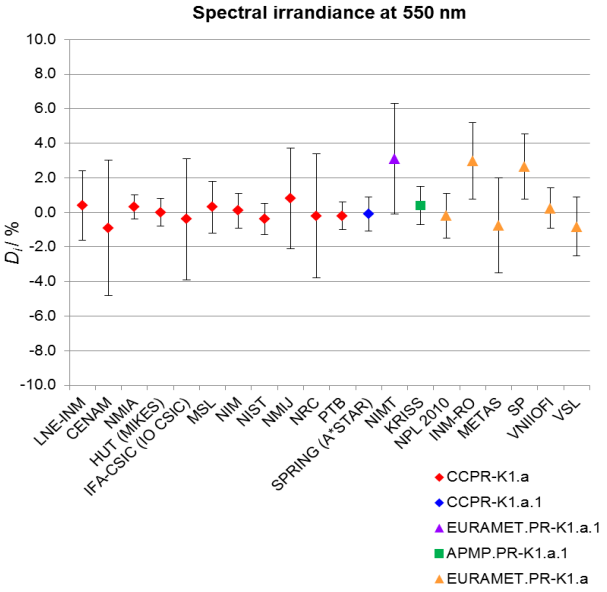

Spectral irrandiance at 380 nm
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
D_i / %
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
EURAMET.PR-K1.a.1
APMP.PR-K1.a.1
EURAMET.PR-K1.a


Spectral irrandiance at 390 nm
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
D_i / %
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
EURAMET.PR-K1.a.1
APMP.PR-K1.a.1
EURAMET.PR-K1.a


Spectral irrandiance at 400 nm
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
D_i / %
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
EURAMET.PR-K1.a.1
APMP.PR-K1.a.1
EURAMET.PR-K1.a


Spectral irradiance at 450 nm
D_i / %
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
EURAMET.PR-K1.a.1
APMP.PR-K1.a.1
EURAMET.PR-K1.a


Spectral irradiance at 500 nm
D_i / %
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
EURAMET.PR-K1.a.1
APMP.PR-K1.a.1
EURAMET.PR-K1.a


Spectral irradiance at 550 nm
D_i / %
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
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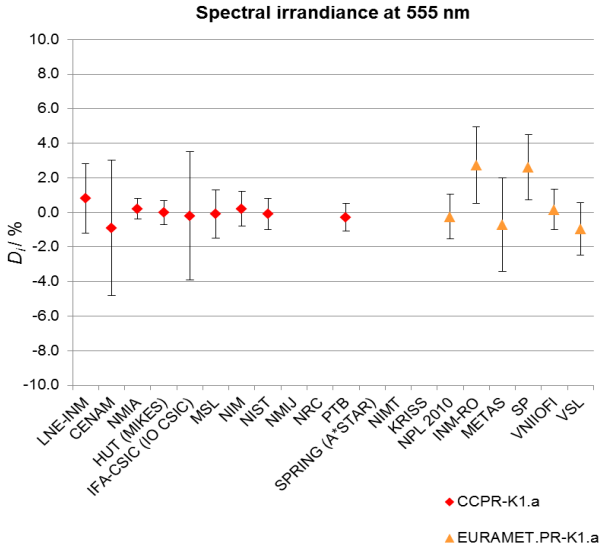
APMP.PR-K1.a.1
EURAMET.PR-K1.a


Spectral irradiance at 555 nm
D_i / %
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
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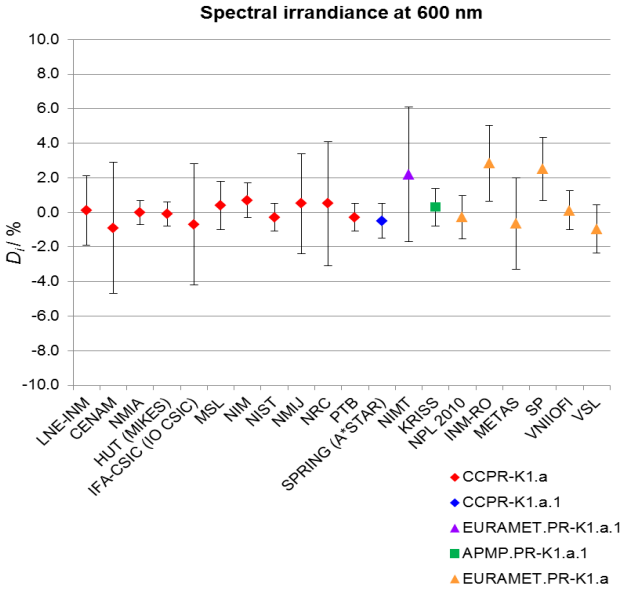
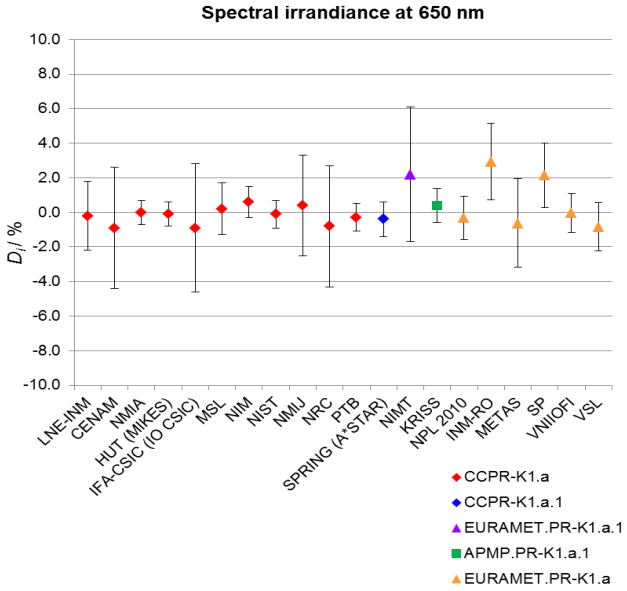
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
EURAMET.PR-K1.a


Spectral irrandiance at 600 nm
D_i / %
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
EURAMET.PR-K1.a.1
APMP.PR-K1.a.1
EURAMET.PR-K1.a


Spectral irrandiance at 650 nm
D_i / %
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
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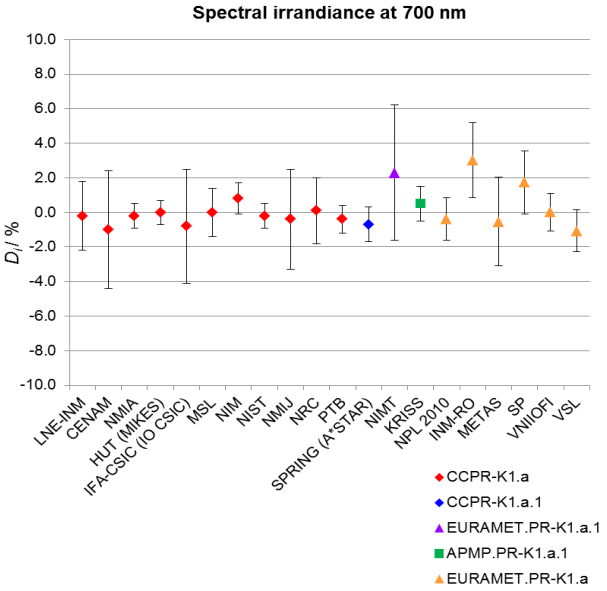
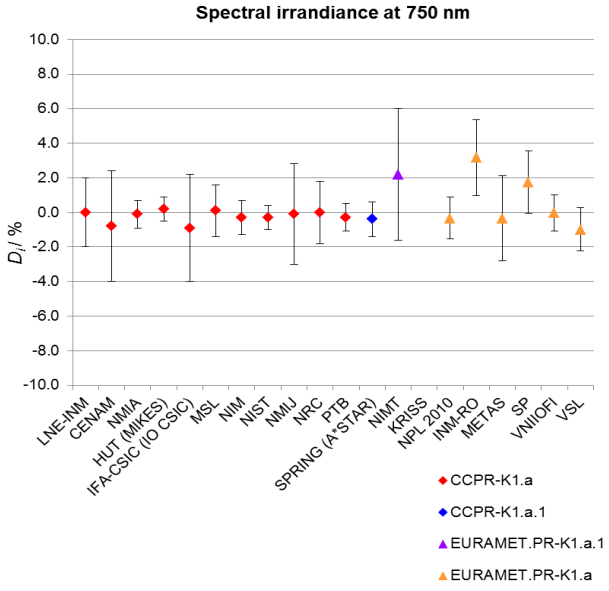
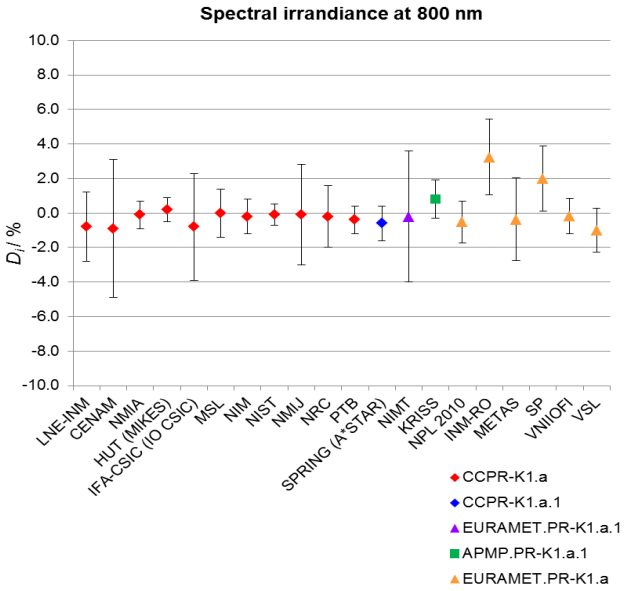
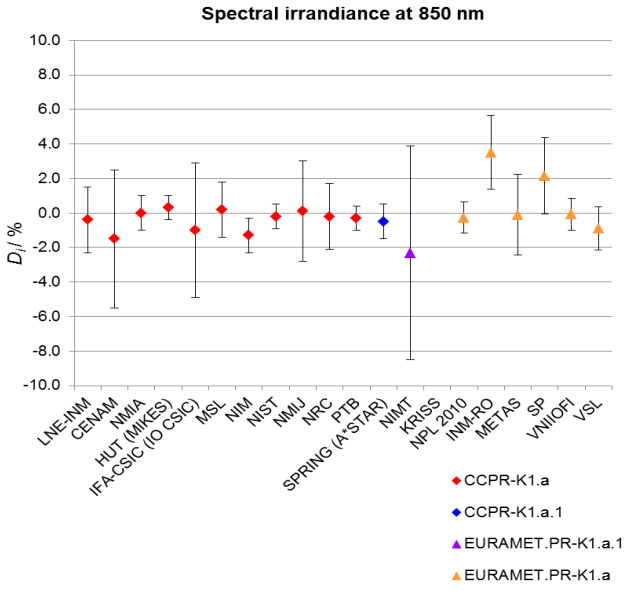
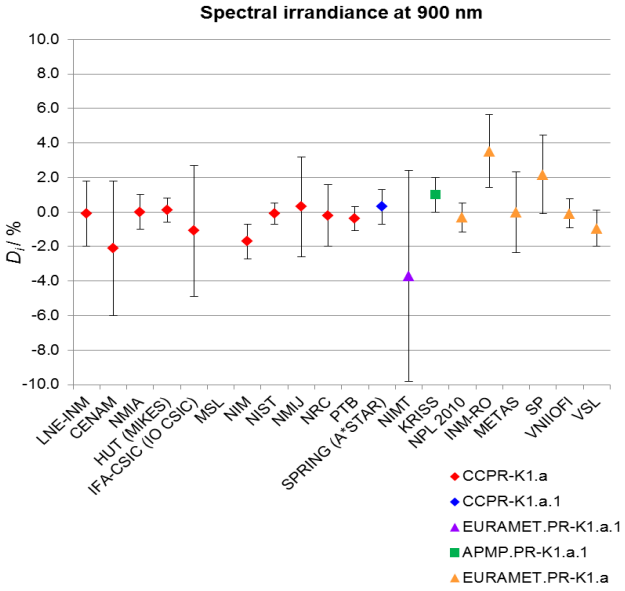
EURAMET.PR-K1.a.1
APMP.PR-K1.a.1
EURAMET.PR-K1.a

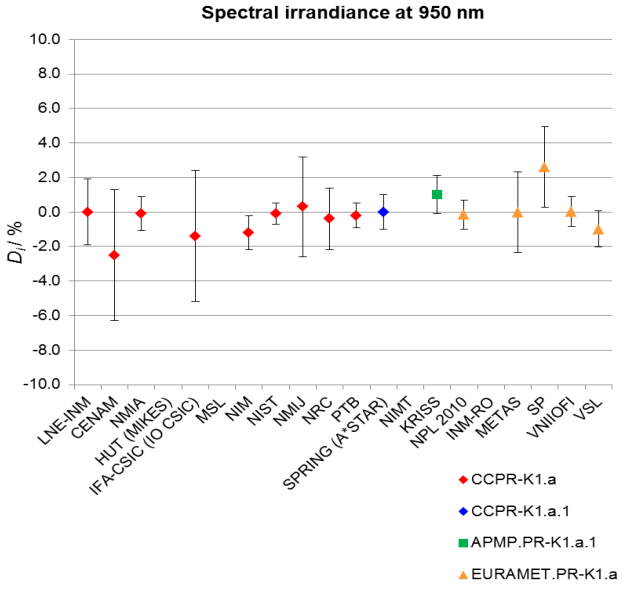

Spectral irrandiance at 700 nm
D_i / %
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
EURAMET.PR-K1.a.1
APMP.PR-K1.a.1
EURAMET.PR-K1.a

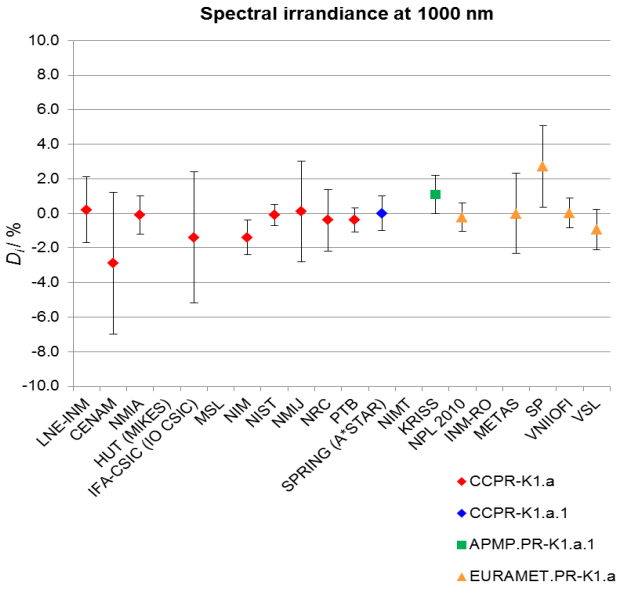

Spectral irrandiance at 750 nm
D_i / %
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
EURAMET.PR-K1.a.1
EURAMET.PR-K1.a


Spectral irradiance at 800 nm
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
D_i / %
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
EURAMET.PR-K1.a.1
APMP.PR-K1.a.1
EURAMET.PR-K1.a


Spectral irradiance at 850 nm
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
D_i / %
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
EURAMET.PR-K1.a.1
EURAMET.PR-K1.a


Spectral irradiance at 900 nm
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
D_i / %
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
EURAMET.PR-K1.a.1
APMP.PR-K1.a.1
EURAMET.PR-K1.a


Spectral irradiance at 950 nm
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
D_i / %
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
APMP.PR-K1.a.1
EURAMET.PR-K1.a


Spectral irrandiance at 1000 nm
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
D_i / %
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
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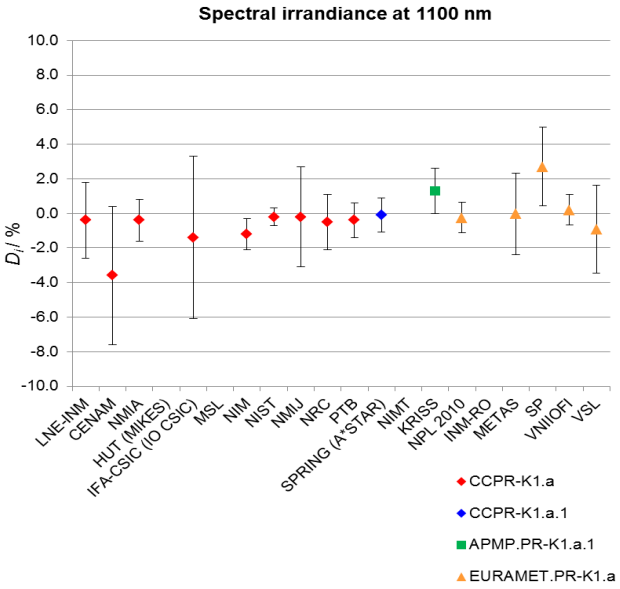
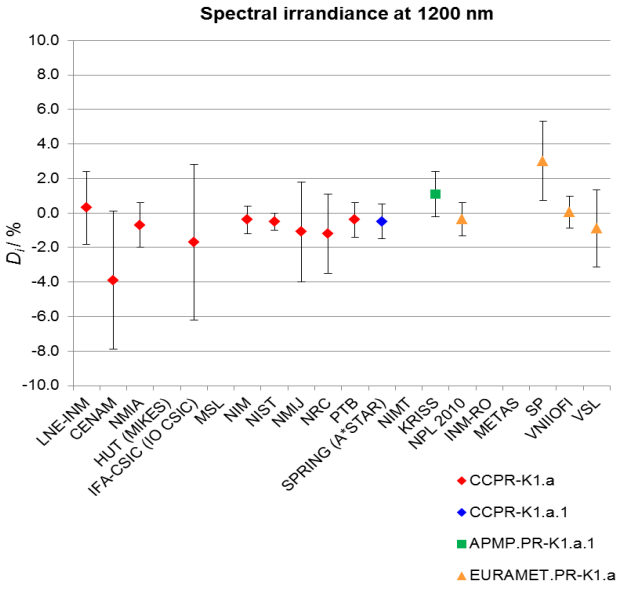
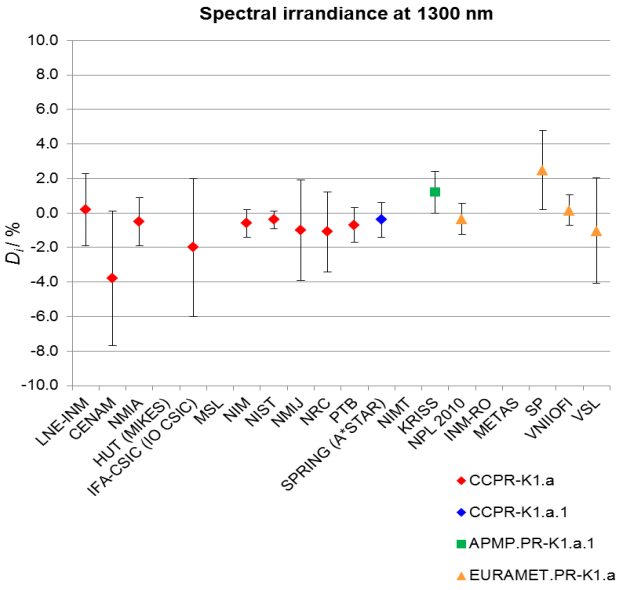
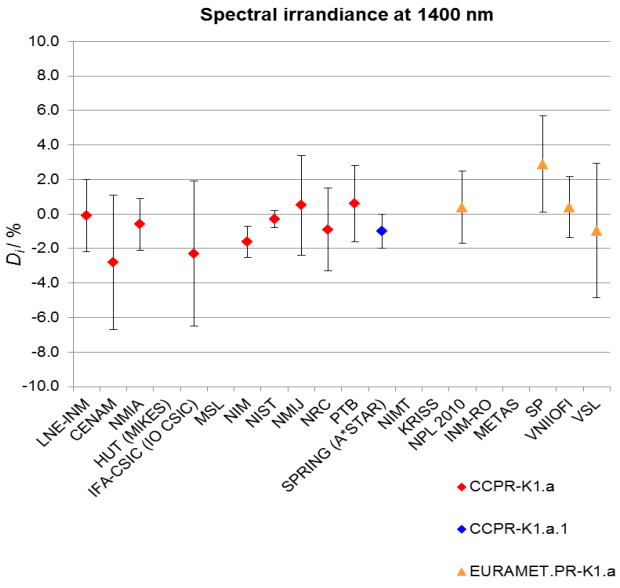
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
APMP.PR-K1.a.1
EURAMET.PR-K1.a


Spectral irrandiance at 1100 nm
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
D_i / %
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
APMP.PR-K1.a.1
EURAMET.PR-K1.a


Spectral irrandiance at 1200 nm
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
D_i / %
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
APMP.PR-K1.a.1
EURAMET.PR-K1.a


Spectral irrandiance at 1300 nm
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
D_i / %
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
APMP.PR-K1.a.1
EURAMET.PR-K1.a


Spectral irrandiance at 1400 nm
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
D_i / %
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
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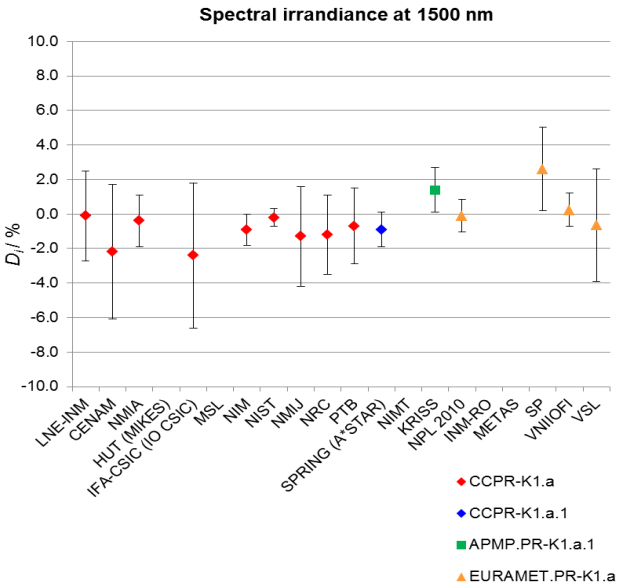
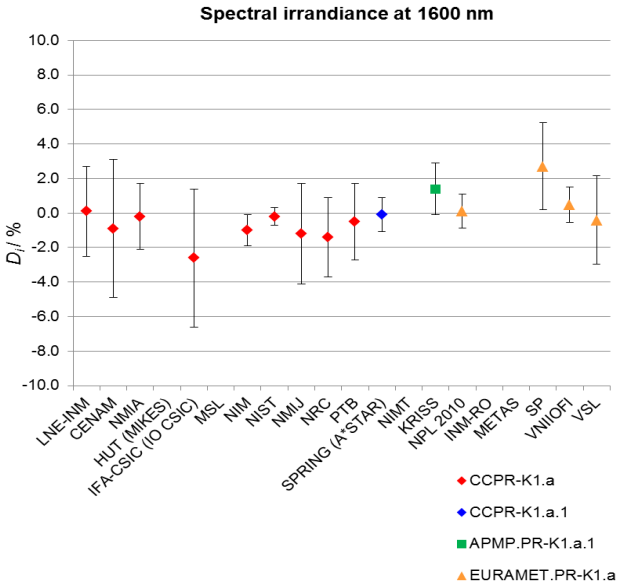
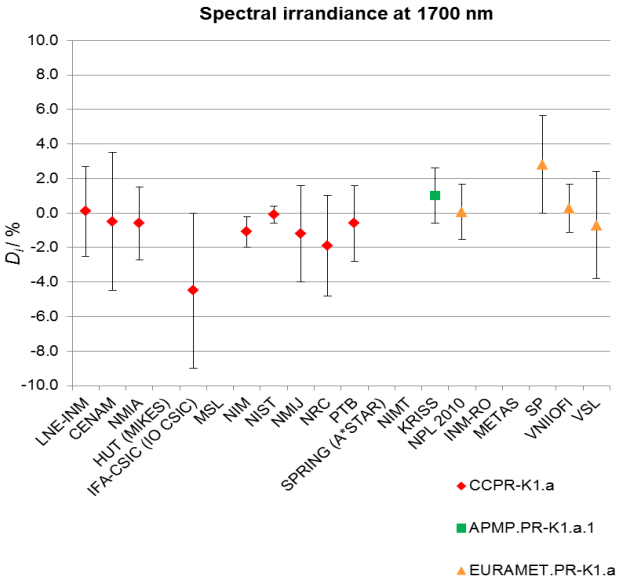
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
EURAMET.PR-K1.a


Spectral irrandiance at 1500 nm
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
D_i / %
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
APMP.PR-K1.a.1
EURAMET.PR-K1.a


Spectral irrandiance at 1600 nm
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
D_i / %
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
CCPR-K1.a.1
APMP.PR-K1.a.1
EURAMET.PR-K1.a


Spectral irrandiance at 1700 nm
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
D_i / %
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
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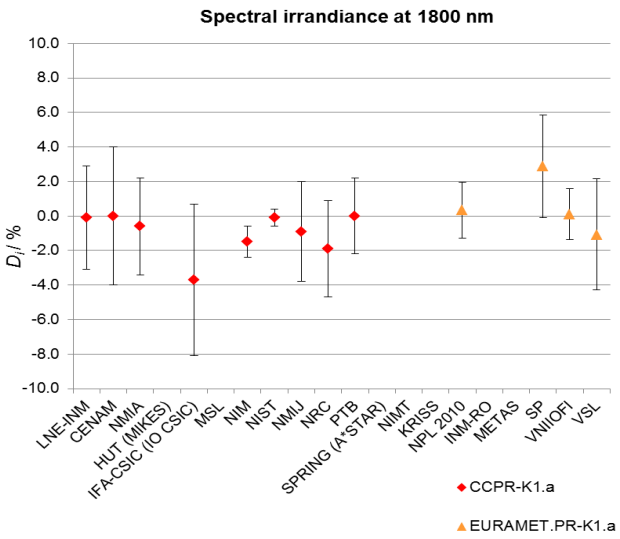
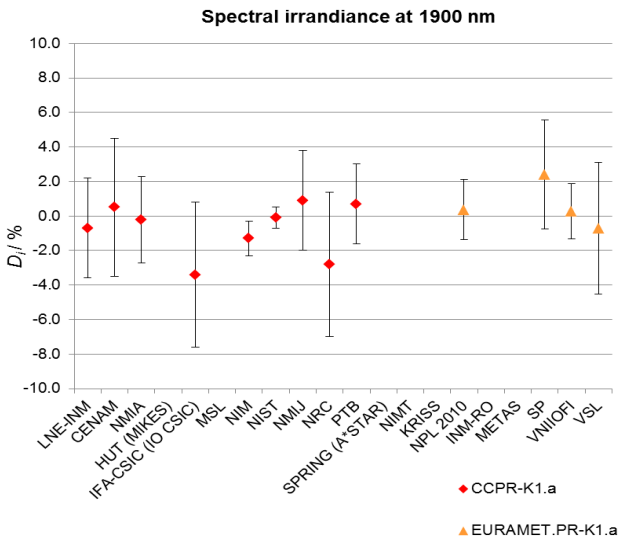
SP
VNIIOFI
VSL
CCPR-K1.a
APMP.PR-K1.a.1
EURAMET.PR-K1.a


Spectral irrandiance at 1800 nm
D_i / %
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
EURAMET.PR-K1.a


Spectral irrandiance at 1900 nm
D_i / %
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
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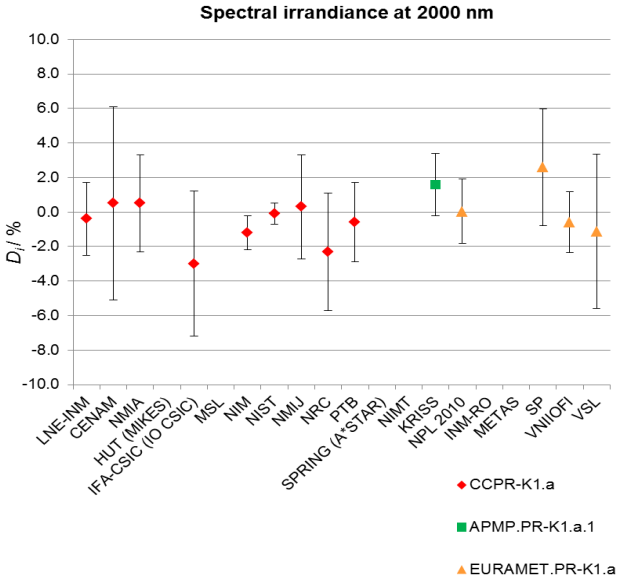
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
EURAMET.PR-K1.a


Spectral irrandiance at 2000 nm
D_i / %
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
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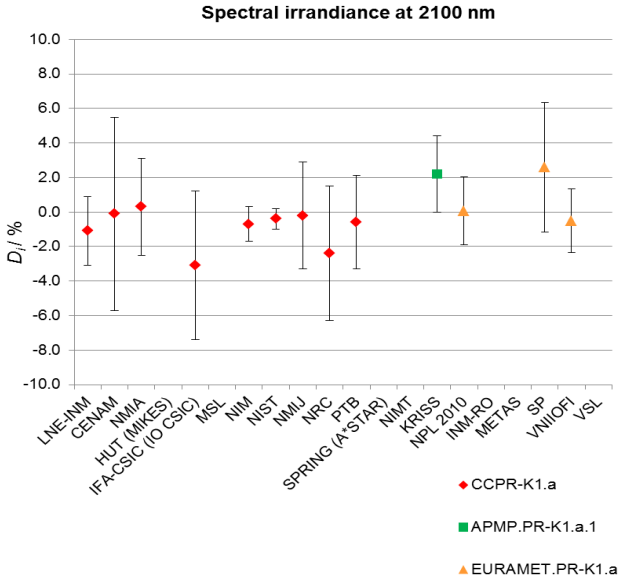
SP
VNIIOFI
VSL
CCPR-K1.a
APMP.PR-K1.a.1
EURAMET.PR-K1.a


Spectral irrandiance at 2100 nm
D_i / %
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
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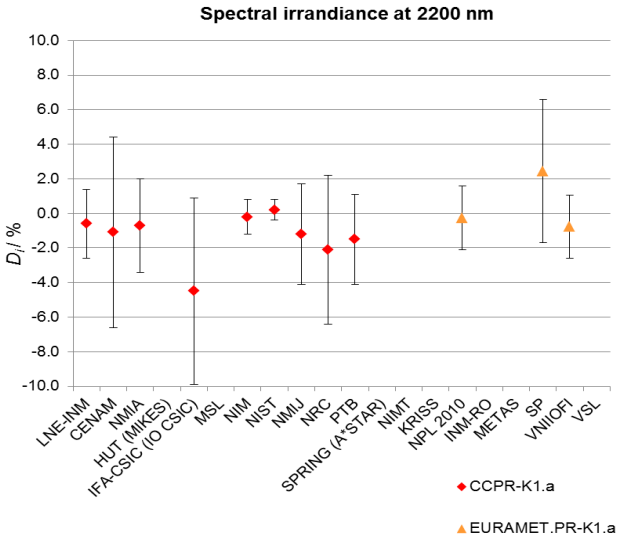
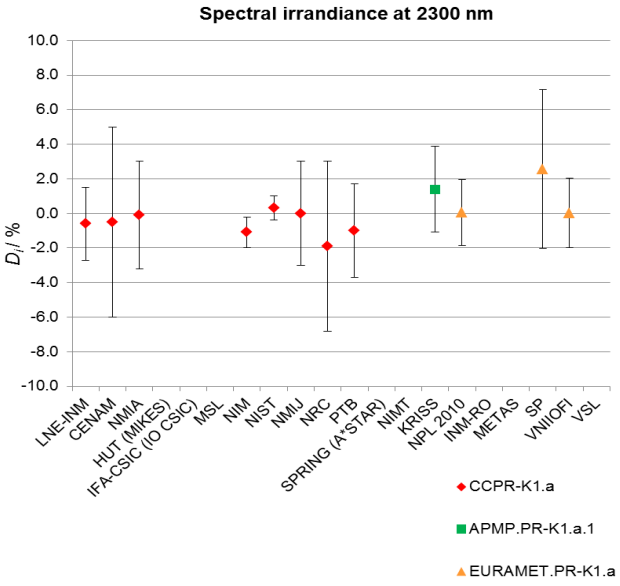
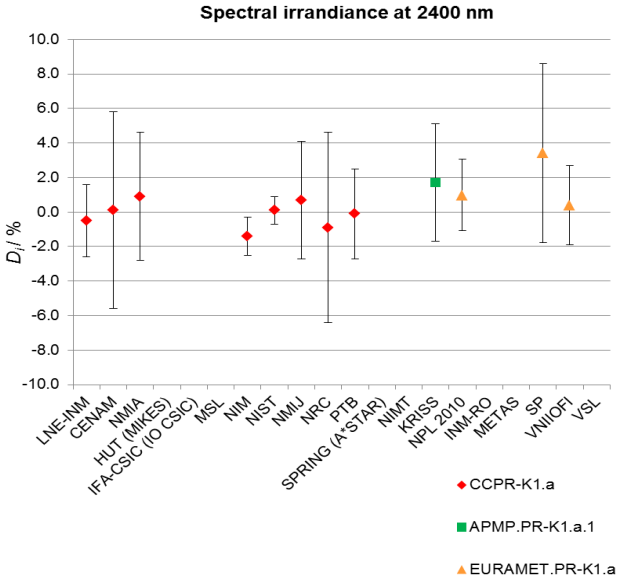
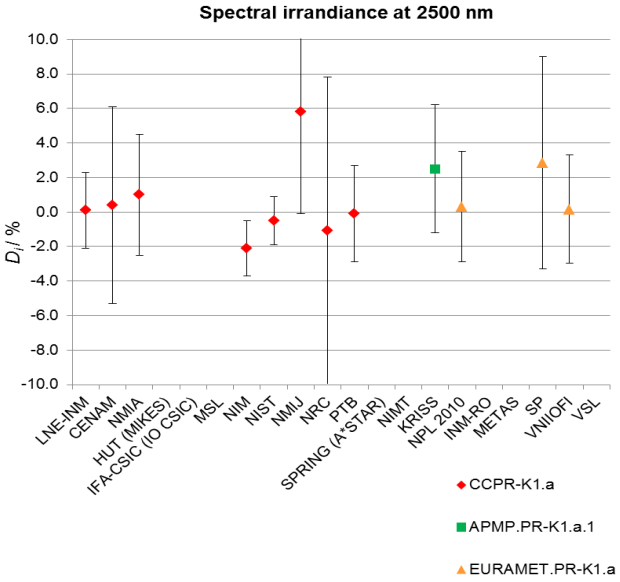
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
APMP.PR-K1.a.1
EURAMET.PR-K1.a


Spectral irrandiance at 2200 nm
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
D_i / %
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
EURAMET.PR-K1.a


Spectral irrandiance at 2300 nm
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
D_i / %
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
APMP.PR-K1.a.1
EURAMET.PR-K1.a


Spectral irrandiance at 2400 nm
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
D_i / %
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
APMP.PR-K1.a.1
EURAMET.PR-K1.a


Spectral irrandiance at 2500 nm
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
D_i / %
LNE-INM
CENAM
NMIA
HUT (MIKES)
IFA-CSIC (IO CSIC)
MSL
NIM
NIST
NMIJ
NRC
PTB
SPRING (A*STAR)
NIMT
KRISS
NPL 2010
INM-RO
METAS
SP
VNIIOFI
VSL
CCPR-K1.a
APMP.PR-K1.a.1
EURAMET.PR-K1.a