

# Appendix A

Appendix shows a summary of the activities and conditions during the LaRC experiment. The explanation of the tables is as follows:

- Column 1: Day of the year.
- Column 2: Date.
- Column 3: Days during which PSP 30849 F3 was operational. If painted in light yellow the PSP is measuring diffuse irradiance and if it is painted in light green the instrument is measuring global irradiance. ON/OFF means ventilation ON/OFF, respectively.
- Column 4: Days during which PSP 31562 F3 was operational. If painted in light yellow the PSP is measuring diffuse irradiance and if it is painted in light green the instrument is measuring global irradiance. ON/OFF means ventilation ON/OFF, respectively.
- Column 5: Days during which PSP 27218 F3 was operational. If painted in light yellow the PSP is measuring diffuse irradiance and if it is painted in light green the instrument is measuring global irradiance. ON/OFF means ventilation ON/OFF, respectively.
- Column 6: Days during which PSP 33028 F3 was operational. If painted in light yellow the PSP is measuring diffuse irradiance and if it is painted in light green the instrument is measuring global irradiance. ON/OFF means ventilation ON/OFF, respectively.
- Column 7: Days during which the PSP 33029 F3 (USLDB) was operational. If painted in light yellow the PSP is measuring diffuse irradiance and if it is painted in light green the instrument is measuring global irradiance. ON/OFF means ventilation ON/OFF, respectively.
- Column 8: Days during which the NIP was operational. The serial number of the NIP that was operational is written for each day.
- Column 9: Days during which the PIR was operational. If painted in light yellow the PSP is measuring diffuse irradiance and if it is painted in light green the instrument is measuring global irradiance. ON/OFF means ventilation ON/OFF, respectively. The serial number of the PIR that was operational is written for each day.
- Column 7: Days during which the B&W pyranometer serial number 32954 was operational. If painted in light yellow the PSP is measuring diffuse irradiance and if it is painted in light green the instrument is measuring global irradiance. ON/OFF means ventilation ON/OFF, respectively.
- Column 10: Estimation of the cloud cover conditions during the morning from visual analysis of PSP output signal.

- Column 11: Estimation of the cloud cover conditions during the morning from visual analysis of PSP output signal.
- Column 12: Show where capping experiment were done.
- Column 13: Comments

DOY	Day	FSP30849	PSP31562	FSP27218	PSP33028	ULSDB	NIP	PIR	B&W	Morn	After	Caps	Incidencoss
245	9/1/00												
246	9/2/00												
247	9/3/00												
248	9/4/00												
249	9/5/00												
250	9/6/00												
251	9/7/00												
252	9/8/00												Start measurements only from TOM=252.86
253	9/9/00	ON (Faint)	ON (Faint)				31375 E6	ON_30355		OV/CD	CD/CL		
254	9/10/00	ON (Faint)	ON (Faint)				31375 E6	ON_30355		CL	CL		
255	9/11/00	ON (Faint)	ON (Faint)				31375 E6	ON_30355		CD	CL		
256	9/12/00	ON (Faint)	ON (Faint)				31375 E6	ON_30355		CD	CD		Very Good Example of Cloudy Day
257	9/13/00	ON (Faint)	ON (Faint)				31375 E6	ON_30355		CE	CE		Very Good Example of Cloudy High Irradiance
258	9/14/00	ON (Faint)	ON (Faint)				31375 E6	ON_30355		CL/CD	CL/CD		
259	9/15/00	ON (Faint)	ON (Faint)				31375 E6	ON_30355		CE	CE		
260	9/16/00	ON (Faint)	ON (Faint)				31375 E6	ON_30355		CD	CD		
261	9/17/00	ON (Faint)	ON (Faint)				31375 E6	ON_30355		CE	CE		
262	9/18/00	ON (Faint)	ON (Faint)				31375 E6	ON_30355		CE	CE		
263	9/19/00	ON (Faint)	ON (Faint)				31375 E6	ON_30355		OV	OV		
264	9/20/00	ON (Faint)	ON (Faint)				31375 E6	ON_30355		CL	CL		
265	9/21/00	ON (Faint)	ON (Faint)				31375 E6	ON_30355		CE	CE		
266	9/22/00	ON (Faint)	ON (Faint)				31375 E6	ON_30355		CD	CE		
267	9/23/00	ON (Faint)	ON (Faint)				31375 E6	ON_30355		OV	OV		
268	9/24/00	ON (Faint)	ON (Faint)				31375 E6	ON_30355		CE	CE		
269	9/25/00	ON (Faint)	ON (Faint)				31375 E6	ON_30355		OV	OV		
270	9/26/00	ON (Faint)	ON (Faint)				31375 E6	ON_30355		OV	OV		
271	9/27/00	ON (Faint)	ON (Faint)				31375 E6	ON_30355		CD	CD		
272	9/28/00	ON (Faint)	ON (Faint)				31375 E6	ON_30355		CD	CD		Reset Tracker
273	9/29/00	ON (Faint)	ON (Faint)				31375 E6	ON_30355		CE	CE		
274	9/30/00	ON (Faint)	ON (Faint)				31375 E6	ON_30355		CL/CE	CD		

Clear (CL)
Cloudy (CD)
Cloudy High Irradiance (CE)
Overcast (OV) Rain (RA)
Mixed conditions (M/C)

Instrument working global
Instrument working diffuse
Calibration day
Problem in the instrument
YES
Cappings

September 2000

DOY	Day	PSP30849	PSP31562	PSP27218	PSP33028	ULSDB	NIP	PIR	E&W	Morn	After	Caps	Incidences
275	10/1/00	ON	ON (FamI)				31375 E6	ON-30355		CE	CE		
276	10/2/00	ON	ON (FamI)				31375 E6	ON-30355		CL	CL		
277	10/3/00	ON	ON (FamI)				31375 E6	ON-30355		CL	CL		
278	10/4/00	ON	ON (FamI)				31375 E6	ON-30355		CL	CL		
279	10/5/00	ON	ON (FamI)	ON (FamI)			31375 E6	ON-30355		CL	CL		Setup PSP 27218 F3, Eppley Resp=0.?? Vmt/W
280	10/6/00	ON	ON (FamI)	ON (FamI)			31375 E6	ON-30355		CE	CE		
281	10/7/00	ON	ON (FamI)	ON (FamI)			31375 E6	ON-30355	OV/CD	CD/CL			
282	10/8/00	ON	ON (FamI)	ON (FamI)			31375 E6	ON-30355	OV	OV			
283	10/9/00	ON	ON (FamI)	ON (FamI)			31375 E6	ON-30355	OD	OD			
284	10/10/00	ON	ON (FamI)	ON (FamI)			31375 E6	ON-30355	CL	CL			
285	10/11/00	ON	ON (FamI)	ON (FamI)			31375 E6	ON-30355	CL	CL			
286	10/12/00	ON	ON (FamI)	ON (FamI)			31375 E6	ON-30355	CL	CL			
287	10/13/00	ON	ON (FamI)	ON (FamI)			31375 E6	ON-30355	CL	CL			
288	10/14/00												Store Data Problem-Some data available, not usable
289	10/15/00												Store Data Problem
290	10/16/00												Store Data Problem
291	10/17/00												Store Data Problem
292	10/18/00												Store Data Problem
293	10/19/00	ON	ON (FamI)	ON (FamI)			31375 E6	ON-30355	CL	CL			
294	10/20/00	ON	ON (FamI)	ON (FamI)			31375 E6	ON-30355	OV/CD	CD/CL			
295	10/21/00	ON	ON (FamI)	ON (FamI)			31375 E6	ON-30355	CL	CL			
296	10/22/00	ON	ON (FamI)	ON (FamI)			31375 E6	ON-30355	CL	CL			
297	10/23/00	ON	ON (FamI)	ON (FamI)			31375 E6	ON-30355	CL	CL			
298	10/24/00	ON	ON (FamI)	ON (FamI)			31375 E6	ON-30355	OD	OD			
299	10/25/00	Morning	Afternoon	ON (FamI)								YES	Calibration Day
300	10/26/00	ON	ON (FamI)	ON (FamI)			31375 E6	ON-30355	OD	OD			
301	10/27/00	ON	ON (FamI)	ON (FamI)			31375 E6	ON-30355	OD	OD			
302	10/28/00	ON	ON (FamI)	ON (FamI)			31375 E6	ON-30355	OD	OD			
303	10/29/00	ON	ON (FamI)	ON (FamI)			31375 E6	ON-30355	CL	CL			
304	10/30/00	Morning	ON (FamI)	Afternoon								YES	Calibration Day
305	10/31/00	Afternoon	ON (FamI)	Morning								YES	Calibration Day

Clear
Cloudy
Cloudy High Irradiance
Overcast (OV) Rain (RA)
Mixed conditions (MC)

Instrument working global
Instrument working diffuse
Calibration day
Problem in the instrument
YES
Cappings

October 2000

DOY	Day	PSP30849	PSP31562	PSP27218	PSP33028	U1LSDB	NIP	PIR	B&W	Moorn	After	Caps	Incidences
306	11/100	Morning	ON (Pantl)	Afternoon								YES	NIP is Grounded, NIP measurements change a little bit
307	11/200												Cable problems, No useful data
308	11/300												Cable problems, No useful data
309	11/400												Cable problems, No useful data
310	11/500												Cable problems, No useful data
311	11/600												Cable problems, Data can be used in the afternoon
312	11/700	ON	(Pantl)	ON	(Pantl)		31375 E6	ON_20355		OV	OV		
313	11/800	ON	(Pantl)	ON	(Pantl)		31375 E6	ON_20355		CE	CE		
314	11/900	ON	(Pantl)	ON	(Pantl)		31375 E6	ON_20355		OV	OV		
315	11/1000	ON	(Pantl)	ON	(Pantl)		31375 E6	ON_20355		CL	CL		
316	11/1100	ON	(Pantl)	ON	(Pantl)		31375 E6	ON_20355		CL	CL		
317	11/1200	ON	(Pantl)	ON	(Pantl)		31375 E6	ON_20355		OV	OV		
318	11/1300	ON	(Pantl)	ON	(Pantl)		31375 E6	ON_20355		CD	CD		
319	11/1400	ON	(Pantl)	ON	(Pantl)		31375 E6	ON_20355		OV	OV		
320	11/1500	ON	(Pantl)	ON	(Pantl)		31375 E6	ON_20355		CL	CL		
321	11/1600	ON	(Pantl)	ON	(Pantl)		31375 E6	ON_20355		CD	CE		Reset Tracker
322	11/1700	ON	(Pantl)	ON	(Pantl)		31375 E6	ON_20355		OV	CE		
323	11/1800	ON	(Pantl)	ON	(Pantl)		31375 E6	ON_20355		OV	CD		
324	11/1900	ON	(Pantl)	ON	(Pantl)		31375 E6	ON_20355		OV	OV		
325	11/2000	ON	(Pantl)	ON	(Pantl)		31375 E6	ON_20355		OV	CL		
326	11/2100	ON	(Pantl)	ON	(Pantl)		31375 E6	ON_20355		CD	CD	YES	
327	11/2200	ON	(Pantl)	ON	(Pantl)		31375 E6	ON_20355		CL	CL		
328	11/2300	ON	(Pantl)	ON	(Pantl)		31375 E6	ON_20355		OV	CL		
329	11/2400	ON	(Pantl)	ON	(Pantl)		31375 E6	ON_20355		CE	CE		
330	11/2500	ON	(Pantl)	ON	(Pantl)		31375 E6	ON_20355		OV	OV		
331	11/2600	ON	(Pantl)	ON	(Pantl)		31375 E6	ON_20355		OV	OV		
332	11/2700	ON	(Pantl)	ON	(Pantl)		31375 E6	ON_20355		CL	CD		
333	11/2800	Afternoon	ON	(Pantl)	Morning							YES	
334	11/2900	ON	(Pantl)	ON	(Pantl)					CE	CE		
335	11/3000	Morning	ON	(Pantl)	ON		31375 E6	ON_20355				YES	

Clear
Cloudy
Cloudy High Irradiance
Overcast(OV) Rain(RA)
Mixed conditions (MC)

Instrument working global
Instrument working diffuse
Calibration day
Problem in the instrument
Cappings

November 2000

DOY	Day	PSP30849	PSP31562	PSP27218	PSP33028	ULSDB	NIP	PIR	B&W	Morn	After	Caps	Incidences
336	12/1/00	ON (FamI)	ON	ON (FamI)			31375 E6	ON_30355		CL	CL		
337	12/2/00	ON (FamI)	ON	ON (FamI)			31375 E6	ON_30355		CE	CE		
338	12/3/00	ON (FamI)	ON	ON (FamI)			31375 E6	ON_30355		OV	OV		
339	12/4/00	Afternoon	Afternoon	ON (FamI)			31375 E6	ON_30355					
340	12/5/00	ON	ON (FamI)	ON (FamI)			31375 E6	ON_30355		CL	CL		Setup of PSP33028 at the end of the day
341	12/6/00	ON	ON (FamI)		ON (FamI)		31375 E6	ON_30355		CE	CE		
342	12/7/00	ON	ON (FamI)		ON (FamI)		31375 E6	ON_30355		CL	CL		
343	12/8/00	ON	ON (FamI)		ON (FamI)		31375 E6	ON_30355		CD	CD		
344	12/9/00	ON	ON (FamI)		ON (FamI)		31375 E6	ON_30355		CD	CD		
345	12/10/00	ON	ON (FamI)		ON (FamI)		31375 E6	ON_30355		OV	OV		
346	12/11/00	ON	ON (FamI)		ON (FamI)		31375 E6	ON_30355		OV	OV		
347	12/12/00	ON	ON (FamI)		ON (FamI)		31375 E6	ON_30355		CD	CD		
348	12/13/00	ON	ON (FamI)		ON (FamI)		31375 E6	ON_30355		CD	CD		
349	12/14/00	ON	ON (FamI)		ON (FamI)		31375 E6	ON_30355		OV	OV		
350	12/15/00	ON	ON (FamI)		ON (FamI)		31375 E6	ON_30355		CD	CD		
351	12/16/00	ON	ON (FamI)		ON (FamI)		31375 E6	ON_30355		OV	OV		
352	12/17/00	ON	ON (FamI)		ON (FamI)		31375 E6	ON_30355		OV	OV		
353	12/18/00	Afternoon	ON (FamI)		Afternoon		31375 E6	ON_30355				YES	
354	12/19/00	ON (FamI)	ON (FamI)		ON		31375 E6	ON_30355		CE	CE		
355	12/20/00	ON (FamI)	ON (FamI)		ON		31375 E6	ON_30355		CL	CL		
356	12/21/00	ON (FamI)	ON (FamI)		ON		31375 E6	ON_30355		CE	CE		
357	12/22/00	ON (FamI)	ON (FamI)		ON		31375 E6	ON_30355		CL	CL		
358	12/23/00	ON (FamI)	ON (FamI)		ON		31375 E6	ON_30355		CD	CD		
359	12/24/00	ON (FamI)	ON (FamI)		ON		31375 E6	ON_30355		CL	CL		
360	12/25/00	ON (FamI)	ON (FamI)		ON		31375 E6	ON_30355		CL	CL		
361	12/26/00	ON (FamI)	ON (FamI)		ON		31375 E6	ON_30355		CD	CD		
362	12/27/00	ON (FamI)	ON (FamI)		ON		31375 E6	ON_30355		CD	CD		
363	12/28/00	ON (FamI)	ON (FamI)		ON		31375 E6	ON_30355		CD	CD		
364	12/29/00	ON (FamI)	ON (FamI)		ON		31375 E6	ON_30355		OV	OV		
365	12/30/00	ON (FamI)	ON (FamI)		ON		31375 E6	ON_30355		CL	CL		
366	12/31/00	ON (FamI)	ON (FamI)		ON		31375 E6	ON_30355		CL	CL		

December 2000

Clear
Cloudy
Cloudy High Irradiance
Overcast (OV) Rain (RA)
Mixed conditions (M/C)

Instrument working global
Instrument working diffuse
Calibration day
Problem in the instrument
YES
Cappings

DOY	Day	PSP30849	PSP31562	PSP27218	PSP33028	LI_SDB	NIP	PIR	B&W	Morn	After	Caps	Incidences
1	1/101	ON (Rand)	ON (Rand)	ON			31375 E6	ON_30855		CD	CD		
2	1/201	ON (Rand)	ON (Rand)	ON			31375 E6	ON_30855		CL	CL		
3	1/301	ON (Rand)	ON (Rand)	ON			31375 E6	ON_30855		CL	CL		
4	1/401	ON (Rand)	ON (Rand)	ON			31375 E6	ON_30855		CL	CL		
5	1/501	ON (Rand)	ON (Rand)	ON			31375 E6	ON_30855		OV	OV		
6	1/601	ON (Rand)	ON (Rand)	ON			31375 E6	ON_30855		CL	CL		
7	1/701	ON (Rand)	ON (Rand)	ON			31375 E6	ON_30855		CD	CD		
8	1/801	ON (Rand)	ON (Rand)	ON			31375 E6	ON_30855		OV	OV		
9	1/901	ON (Rand)	ON (Rand)	ON			31375 E6	ON_30855		CL	CL		
10	1/1001												
11	1/1101												
12	1/1201	OFF	OFF				31375 E6	ON_30855		CE	CE		
13	1/1301	OFF	OFF				31375 E6	ON_30855		CL	CL		
14	1/1401	OFF	OFF				31375 E6	ON_30855		CE	CE		
15	1/1501	OFF	OFF				31375 E6	ON_30855		CE	CE		
16	1/1601	OFF	OFF				31375 E6	ON_30855		CD	CD		
17	1/1701	OFF	OFF				31375 E6	ON_30855		CD	CD		
18	1/1801	OFF	OFF				31375 E6	ON_30855		OV	OV		
19	1/1901	OFF	OFF				31375 E6	ON_30855		OV	OV		
20	1/2001	OFF	OFF				31375 E6	ON_30855		OV	OV		
21	1/2101	OFF	OFF				31375 E6	ON_30855		CL	CL		
22	1/2201	OFF	OFF				31375 E6	ON_30855		CD	CL		
23	1/2301												
24	1/2401												
25	1/2501	ON (Rand)	ON (Rand)	ON			31375 E6	ON_30855		CD	CD		
26	1/2601	ON (Rand)	ON (Rand)	ON			31375 E6	ON_30855		CL	CL		
27	1/2701	ON (Rand)	ON (Rand)	ON			31375 E6	ON_30855		CL	CL		
28	1/2801	ON (Rand)	ON (Rand)	ON			31375 E6	ON_30855		CL	OV		
29	1/2901	ON (Rand)	ON (Rand)	ON			31375 E6	ON_30855		OV	CD		
30	1/3001												
31	1/3101	ON (Rand)	ON (Rand)	ON			31375 E6	ON_30855		CD	CL		

It can be used, but work on cable mesh, a wrap of PSP Low

January 2001

Clear
Cloudy
Cloudy High Irradiance
Overcast (OV) Rain (RA)
Mixed conditions (MC)

Instrument working global
Instrument working diffuse
Calibration day
Problem in the instrument
Cappings

DOY	Day	FSP30849	FSP31562	FSP27218	FSP33028	ULSDB	NIP	PIR	B&W	Morn	After	Caps	Incidents
32	2/1/01	ON (FamI)	ON (FamI)	ON	ON		31375 E6	ON_30355		CE	CE		
33	2/2/01	ON (FamI)	ON (FamI)	ON	ON		31375 E6	ON_30355		CE	CE		
34	2/3/01	ON (FamI)	ON (FamI)	ON	ON		31375 E6	ON_30355		CL	CL		
35	2/4/01	ON (FamI)	ON (FamI)	ON	ON		31375 E6	ON_30355		CE	CE		
36	2/5/01	ON (FamI)	ON (FamI)	ON	ON		31375 E6	ON_30355		CE	CE		
37	2/6/01	ON (FamI)	ON (FamI)	ON	ON		31375 E6	ON_30355		CL	CL	YES	
38	2/7/01	ON (FamI)	ON (FamI)	ON	ON		31375 E6	ON_30355		CL	CL		reset tracker
39	2/8/01	ON	ON				31375 E6	ON_30355		CD	CD		
40	2/9/01	ON	ON				31375 E6		ON	CD	CE		
41	2/10/01	ON	ON				31375 E6		ON	CD	CL		
42	2/11/01	ON	ON				31375 E6		ON	CL	CD		
43	2/12/01	ON	ON				31375 E6		ON	OY	OY		
44	2/13/01	ON	ON				31375 E6		ON	CE	CE		
45	2/14/01	ON	ON				31375 E6		ON	OY	OY		
46	2/15/01	ON	ON				31375 E6		ON	OY/RA	OY/RA		
47	2/16/01	ON	ON				31375 E6		ON	OY/RA	OY/RA		
48	2/17/01	ON	ON				31375 E6		ON	OY/RA	CD		
49	2/18/01	ON	ON				31375 E6		ON				
50	2/19/01	ON	ON				31375 E6		ON				
51	2/20/01	ON	ON				31375 E6		ON	CL	CL	YES	
52	2/21/01	ON	ON				31375 E6		ON	CE	CE		
53	2/22/01	ON	ON				31375 E6		ON	OY/SN	OY/SN		
54	2/23/01	ON	ON				31375 E6		ON	CL	CL	YES	Not useful, swept PSP30849 and 31562 for 2 hrs
55	2/24/01	ON	ON				31375 E6		ON	CD	CD		
56	2/25/01	ON	ON				31375 E6		ON	OY	OY		
57	2/26/01	ON	ON				31375 E6		ON	CL	CL		
58	2/27/01	ON	ON				31375 E6		ON	CL	CD	YES	
59	2/28/01	ON	ON				31375 E6		ON	OY	CE		

Instrument working global
Instrument working offsite
Calibration day
Problem in the instrument
Cappings

Clear
Cloudy
Cloudy High Irradiance
Overcast (OY) Rain (RA)
Mixed conditions (M/C)

February 2001



DOY	Day	PSP30849	PSP31562	FSP27218	FSP33028	ULSDB	NIP	PIR	B&W	Morn	After	Caps	Incidences
60	3/1/01	ON	ON				31375 E6		ON	CD	CL	YES	
61	3/2/01	ON	ON				31375 E6		ON	CE	CE		
62	3/3/01	ON	ON				31375 E6		ON	CE	CE		
63	3/4/01	ON	ON				31375 E6		ON	OV	OV		
64	3/5/01	ON	ON				31375 E6		ON	CE	CE		
65	3/6/01	ON	ON				31375 E6		ON	CE	CE		
66	3/7/01	ON	ON				31375 E6		ON	CE	CE		
67	3/8/01	ON	ON				31375 E6		ON	CL	CL	YES	
68	3/9/01	ON	ON				31375 E6		ON	CD	CD		
69	3/10/01	ON	ON				31375 E6		ON	CL	CL		
70	3/11/01	ON	ON				31375 E6		ON	CL	CL		
71	3/12/01	ON	ON				31375 E6		ON	CL	CE		
72	3/13/01	ON	ON				31375 E6		ON	CD	CD		
73	3/14/01	ON	ON				31375 E6		ON	CL	CL		
74	3/15/01												
75	3/16/01												
76	3/17/01												
77	3/18/01												
78	3/19/01												
79	3/20/01												
80	3/21/01												
81	3/22/01												
82	3/23/01												
83	3/24/01												
84	3/25/01												
85	3/26/01												
86	3/27/01												
87	3/28/01												
88	3/29/01												
89	3/30/01												
90	3/31/01												

Instrument working global
Instrument working diffuse
Calibration day
Problem in the instrument
YES Cappings

Clear
Cloudy
Cloudy High Irradiance
Overcast (OV) Rain (RA)
Mixed conditions (M/C)

March 2001