

PRR Series calibration :

S/N= **9628**
 Calib Date **04-Aug-11**
 Analyst **Dave Menzies**
 Std Lamp **F-472**
 2nd Std **F-476**
 Report Date **08-Aug-11**

UCMBO Calibration Facility
University of California at Santa Barbara

Note: some moisture under cosine collector

DOWNWELLING IRRADIANCE CHANNELS :											Dry Calib at UCSB 04-Aug-11 lamp F-472		Dry Calib at BSI 22-Dec-94 lamp F-310		BSI		
Primary standard Lamp											change		change		Immers		
CHAN	TAG	WL(nm)	Lamp Output	Immersion CHORS	Distance Factor	DARK	voltage SHADOW	LIGHT	CALIB FACTOR DRY	CALIB FACTOR WET	DRY MAX						
1	0	412	2.290	0.686	1	-0.000077	-0.000072	-0.043573	-0.018999	-0.013032	526.3	-0.01942	2.17%	-0.027248	30.27%	0.682	0.57%
2	0	443	3.556	0.695	1	-0.000004	0.000043	-0.083618	-0.023524	-0.016360	425.1	-0.02401	2.02%	-0.025817	8.88%	0.688	1.07%
3	0	490	5.966	0.704	1	0.000198	0.000238	-0.202515	-0.033982	-0.023916	294.3	-0.03452	1.57%	-0.035875	5.28%	0.697	0.96%
4	0	510	7.120	0.707	1	-0.000376	-0.000424	-0.169357	-0.023725	-0.016774	421.5	-0.02400	1.16%	-0.03399	30.20%	0.701	0.85%
5	0	555	9.849	0.714	1	-0.000290	-0.000314	-0.280743	-0.028473	-0.020339	351.2	-0.02871	0.83%	-0.033411	14.78%	0.710	0.61%
6	0	656	15.635	0.730	1	-0.000247	-0.000243	-0.364859	-0.023321	-0.017035	428.8	-0.02323	-0.41%	-0.032774	28.84%	0.731	-0.07%
7	0	PAR	0.01429	0.706	1	-0.000227	-0.000277	-0.122681	-8.566059	-6.049018	1.1674	-8.71155	1.67%	-14.564781	41.19%	0.702	0.59%

DOWNWELLING IRRADIANCE CHANNELS : Secondary Standard Lamp											Computed Lamp Output		Change from May 05 2011 based on F-472		based on voltage
CHAN	TAG	WL(nm)	Lamp Output	Immersion BSI	Distance Factor	DARK	voltage SHADOW	LIGHT							
1	0	412			1	0.000034	0.000013	-0.048172			2.5361	2.5271			-0.36%
2	0	443			1	0.000067	0.000052	-0.091858			3.9070	3.8976			-0.24%
3	0	490			1	0.000235	0.000217	-0.220184			6.4857	6.4687			-0.26%
4	0	510			1	-0.000334	-0.000382	-0.183072			7.7003	7.6985			-0.02%
5	0	555			1	-0.000274	-0.000312	-0.301059			10.5626	10.5508			-0.11%
6	0	656			1	-0.000196	-0.000244	-0.384891			16.4937	16.4750			-0.11%
7	0	PAR			1	-0.000223	-0.000282	-0.130310			0.01518	0.01510			-0.53%

UPWELLED RADIANCE CHANNELS :			Primary standard Lamp															
CHAN	TAG	WL(nm)	Lamp Output	PLAQUE Reflectance	Immersion Coefficient	PLAQUE RADIANCE	DARK	voltage SHADOW	LIGHT	CALIB FACTOR	MAX RADIANCE	Calib at UCSB 10-Aug-10	Change	Calib at BSI 22-Dec-94	Change			
1	1	412	2.290	0.997	1.751	0.045686	0.000188	0.000179	-0.030782	-0.386921	25.85	-0.402417	3.85%	-0.473970	18.37%			
2	1	443	3.556	0.996	1.746	0.070892	-0.000228	-0.000234	-0.052185	-0.419722	23.83	-0.425984	1.47%	-0.476390	11.90%			
3	1	490	5.966	0.996	1.739	0.118933	0.000244	0.000235	-0.134470	-0.651146	15.36	-0.652403	0.19%	-0.722380	9.86%			
4	1	510	7.120	0.995	1.737	0.141795	0.000100	0.000093	-0.142825	-0.580221	17.23	-0.604970	4.09%	-0.750060	22.64%			
5	1	555	9.849	0.995	1.733	0.196131	0.000269	0.000255	-0.405454	-1.193792	8.38	-1.204058	0.85%	-1.272590	6.19%			
6	1	656	15.635	0.994	1.726	0.311033	0.000169	0.000128	-0.754199	-1.405348	7.12	-1.400806	-0.32%	-1.255890	-11.90%			
7	1	LuLwp	0.000	0.994	1.724	0.000000	0.000217	-0.003001	Saturated									

UPWELLED RADIANCE CHANNELS : Secondary standard Lamp														Lamp Std Dist. (cm): PLAQUE TO LAMP (cm):		50.20 200.20
CHAN	TAG	WL(nm)	Lamp Output	PLAQUE Reflectance	Immersion Coefficient	PLAQUE RADIANCE	DARK	voltage SHADOW	LIGHT	Computed Lamp Output	Change from May 05 2011 based on F-472	based on voltage				
1	1	412		0.997	1.751	0.000000	0.000176	0.000179	-0.034313	2.5507	2.5438	-0.27%				
2	1	443		0.996	1.746	0.000000	-0.000229	-0.000231	-0.057526	3.9222	3.9141	-0.21%				
3	1	490		0.996	1.739	0.000000	0.000246	0.000238	-0.146817	6.5134	6.4978	-0.24%				
4	1	510		0.995	1.737	0.000000	0.000102	0.000095	-0.155353	7.7448	7.7316	-0.17%				
5	1	555		0.995	1.733	0.000000	0.000267	0.000253	-0.437903	10.6367	10.6134	-0.22%				
6	1	656		0.994	1.726	0.000000	0.000171	0.000127	-0.800781	16.6002	16.5832	-0.10%				
7	1	LuLwp		0.994	1.724		0.000234	-0.003189	Saturated							

ANCILLARY CHANNELS:						
CHAN	TAG	Channel		Slope	Offset	Units
8	0	Line Volt		1.00	0.000	Volts
9	0	Temp		0.02603	0.00358	Deg C.
10	0	Depth		79.9313	8.7814	dBar
11	0	Tilt		0.0418	2.6438	Deg
12	0	Roll		0.0404	2.6832	Deg
13	0	Spare		1.00	0.000	Volts
14	0	Fluor		0.06184	0.040	ug/l
15	0	Trans		0.04839	0.063	%
16	0	ScPAR		-0.023958	0.000135	uE/cm^2/s
8	1	Lu GND		1.00	0.000	Volts

RECALIBRATION RECOMMENDATIONS:

Recalibration of all optical sensors is recommended yearly.