



Wavelength Calibration Data

Built For:  
 Order Number:  
 Model: **HR2000+ES**  
 Description: Enhanced Sensitivity HR2000+CG  
 Grating: 300 Line Composite Blaze  
 Bandwidth: 200 - 1100 nm  
 Options Installed: ILX511b Detector, UV2/OFLV-5 Filter, L2 Lens, 10um Slit  
 Serial Number: **HR+C1886** **Master**

$\lambda$	Pixel #	Predicted $\lambda$	$\Delta\lambda$
253.652	139	253.649	0.003
296.728	230	296.624	0.104
302.150	242	302.275	-0.125
313.155	265	313.097	0.058
365.015	376	365.132	-0.117
404.656	461	404.765	-0.109
407.781	467	407.556	0.225
435.835	528	435.874	-0.039
546.074	767	545.887	0.187
576.959	835	576.912	0.047
576.959	836	577.367	-0.408
696.543	1100	696.633	-0.090
706.722	1122	706.487	0.235
727.294	1168	727.047	0.247
738.398	1193	738.197	0.201
750.387	1220	750.219	0.168
763.510	1250	763.554	-0.044
772.421	1270	772.430	-0.009
794.817	1321	795.014	-0.197
801.479	1336	801.642	-0.163
810.370	1356	810.470	-0.100
826.452	1392	826.333	0.119
840.820	1426	841.282	-0.462
840.821	1425	840.842	-0.021
852.144	1451	852.252	-0.108
866.794	1484	866.707	0.087
912.297	1588	912.060	0.237
922.450	1612	922.483	-0.033
978.450	1741	978.224	0.226
1047.005	1902	1047.122	-0.117

**Calibration Coefficients**

First Coefficient: 0.476875065  
 Second Coefficient: -1.24374E-05  
 Third Coefficient: -3.6416E-10  
 Intercept: 187.6048237  
 Regression Fit: 0.999999683

**Stray Light Measurements (AU)**

Holmium Oxide (444nm): 1.19  
 Yellow Dye: 2.32  
 Blue Dye: 3.66  
 Molybdate: 1.47  
 OG550 Filter: 2.43  
 RG850 Filter: 3.94  
 FG3 Filter: 1.11

# Linearity Test

Serial Number **HR+C1886**

Tech: Aura.Moreno

Linearity: **99.83023**

Tested: 5/31/11

Test # 46,639.00

Intercept 0.93116

Coefficient 1 2.16413e-005

Coefficient 2 -6.72646e-009

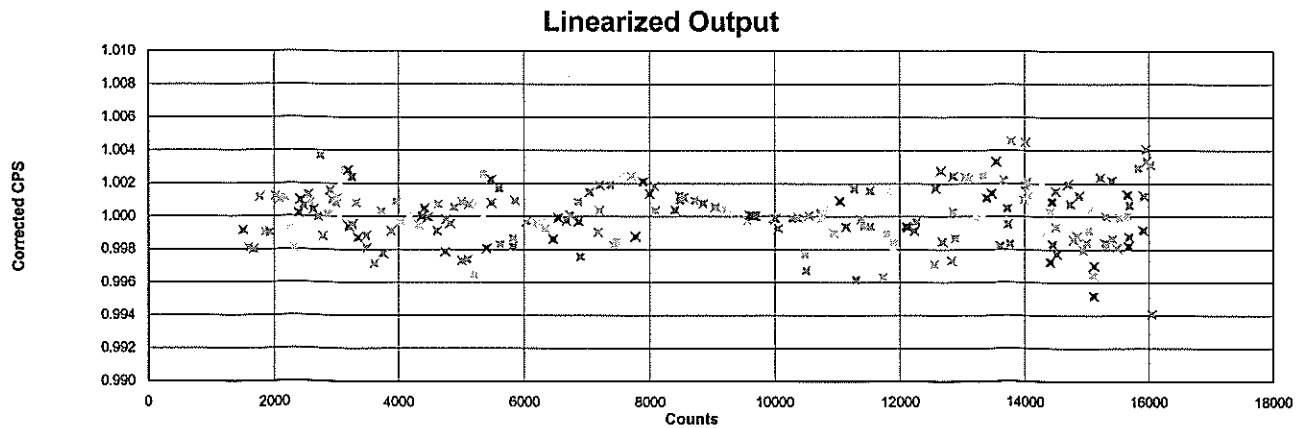
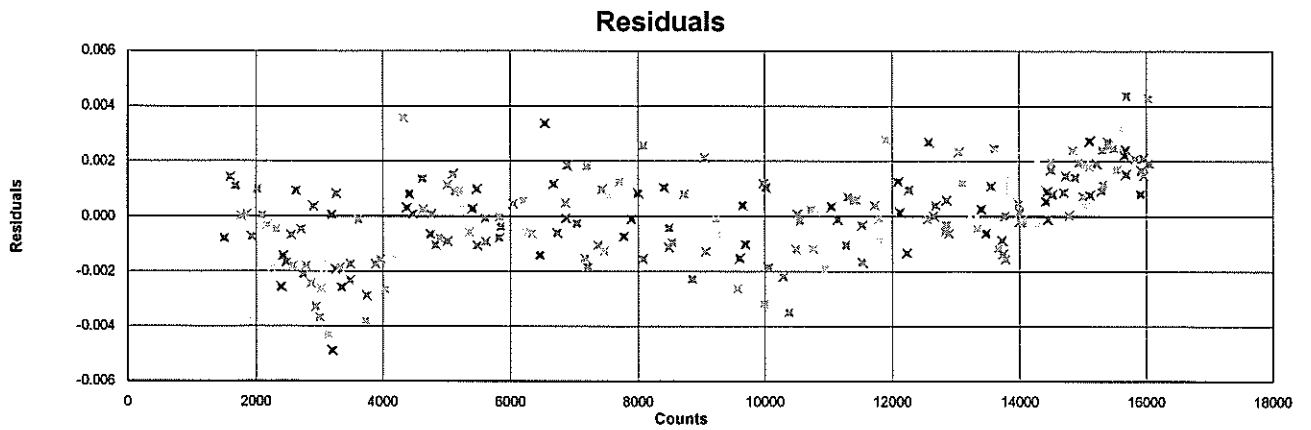
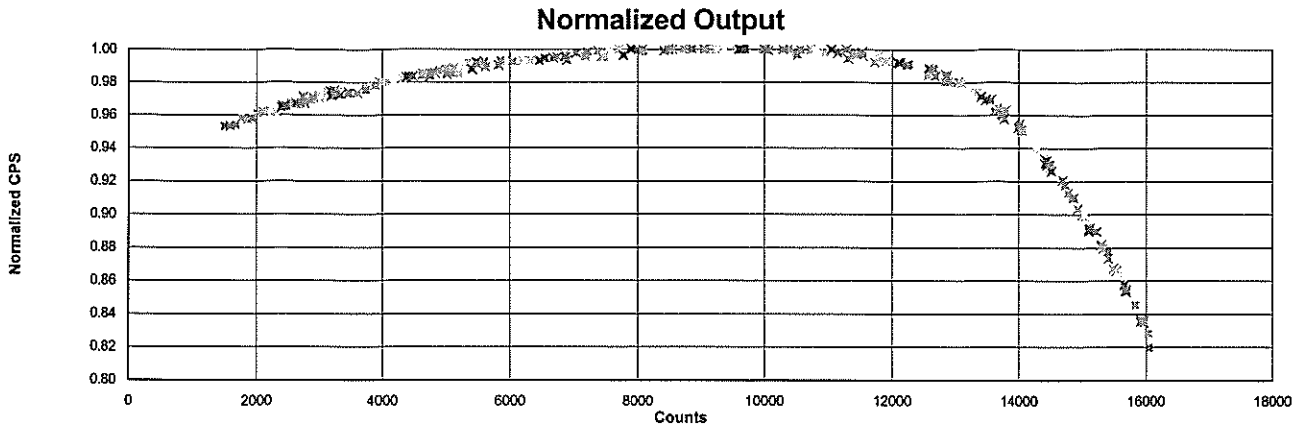
Coefficient 3 2.25402e-012

Coefficient 4 -4.30896e-016

Coefficient 5 4.24049e-020

Coefficient 6 -2.02508e-024

Coefficient 7 3.64722e-029



Max 1.00457346

Min 0.99408168