

|               |                          |
|---------------|--------------------------|
| Instrument    | SATPED                   |
| Serial number | 0228                     |
| Sensor type   | Eu: Upwelling Irradiance |

|          |                          |
|----------|--------------------------|
| Time     | Oct 12, 2023 12:25:13 PM |
| Software | 1.9.23                   |
| Operator | mswenson                 |
| Project  |                          |

|          |                    |
|----------|--------------------|
| Comment: | Final Calibration, |
|----------|--------------------|

## Calibration Parameters

|                    |          |
|--------------------|----------|
| Number of channels | 137      |
| Start wavelength   | 349.47   |
| End wavelength     | 802.74   |
| Output channels    | 2 -> 138 |
| Display channels   | 2 -> 138 |
| Max counts         | 65535.0  |
| Distance           | 50.0     |
| Type override      | No       |
| Immersion values   | Quartz   |

## Data Collection

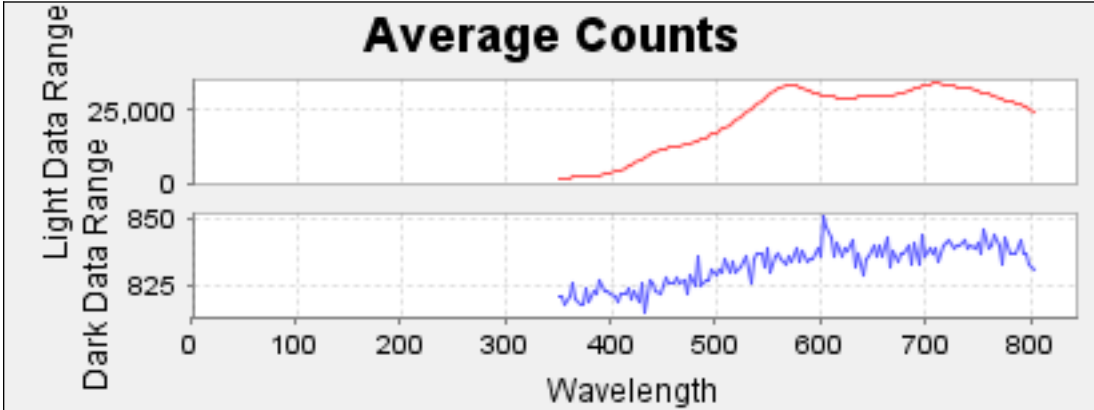
|                     |      |
|---------------------|------|
| Number dark frames  | 41   |
| Number light frames | 202  |
| Corrupt frames      | 0    |
| Lost bytes          | 3402 |
| Capped darks        | No   |

## Input Files

|                  |                                                                                                                   |
|------------------|-------------------------------------------------------------------------------------------------------------------|
| TDF template     | P:\CALIB\Radiometers\HyperOCR\In-Water_Irradiance_HPE\hpe228\Cal 2\CalO\HPE0228O.cal                              |
| Light data file  | P:\CALIB\Radiometers\HyperOCR\In-Water_Irradiance_HPE\hpe228\Cal 3\CalM\clAj228f-0228_2023-10-10_13-27-45_raw.bin |
| Dark data file   | P:\CALIB\Radiometers\HyperOCR\In-Water_Irradiance_HPE\hpe228\Cal 3\CalM\clAj228f-0228_2023-10-10_13-27-45_raw.bin |
| Lamp data file   | P:\CALIB\Radiometers\Lamps\F1740\F1740.FIT                                                                        |
| Target data file | No Target Used                                                                                                    |

## Output Files

|                |                                                                                         |
|----------------|-----------------------------------------------------------------------------------------|
| Light cal file | P:\CALIB\Radiometers\HyperOCR\In-Water_Irradiance_HPE\hpe228\Cal 3\CalM\PED0228P_Eu.cal |
| Dark cal file  | P:\CALIB\Radiometers\HyperOCR\In-Water_Irradiance_HPE\hpe228\Cal 3\CalM\HPE0228P_Eu.cal |
| Package file   | P:\CALIB\Radiometers\HyperOCR\In-Water_Irradiance_HPE\hpe228\Cal 3\CalM\HPE_0228_16.xml |



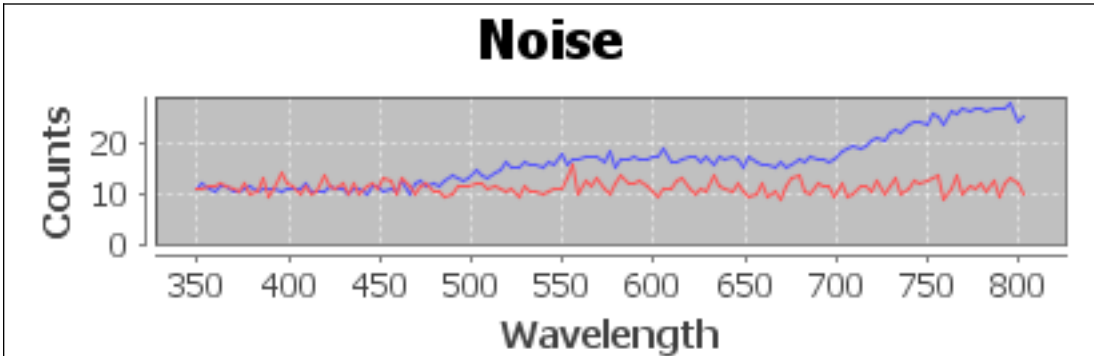
— Average Light Counts (clAj228f-0228\_2023-10-10\_13-27-45\_raw.bin)  
— Average Dark Counts (clAj228f-0228\_2023-10-10\_13-27-45\_raw.bin)

#### Pass Criteria

Dark range less than 50 counts, light counts resembles solar spectrum

#### Dark Range

35.4



✓ Average Dark Noise (clAj228f-0228\_2023-10-10\_13-27-45\_raw.bin)  
✓ Average Light Noise (clAj228f-0228\_2023-10-10\_13-27-45\_raw.bin)

#### Pass Criteria

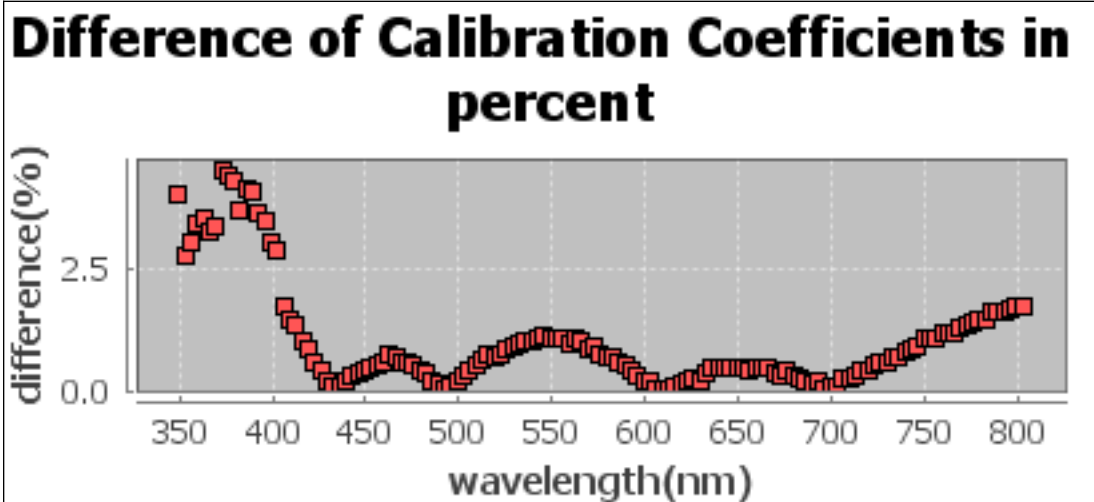
Dark noise delta less than 12, light noise delta less than 35

#### Dark Range Delta

6.9

#### Light Range Delta

18.2



■  $(\text{HPE0228O.cal}/\text{HPE0228P.cal}-1)*100$

#### Pass Criteria

Percent difference less than 10%

#### % Difference

1.02