

GOES-16 EUVS-A and -B Responsivities
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There are 2 channels, EUVS-A and EUVS-B, with 23 diodes for each channel.
There are 7 solar lines: 3 for EUVS-A and 4 for EUVS-B.
Each channel has 2 dark diodes (not exposed to sunlight): 0 and 11 (EUVS-A), 12 and 23 (EUVS-B).
Provided responsivities are undegraded values at launch.
For EUVS-A, responsivities are for primary science filter.
The dark diodes have the responsivities and wavelengths are fill values and should not be used.
The central diodes for 30.4 and 121.6 nm have split diodes (top and bottom).
The mask provides one responsivity value for each pair of split diodes.

GOES-16 EUVS-A line wavelengths [nm]
[25.6, 28.4, 30.4]

GOES-16 EUVS-A diode wavelengths [nm]
[-1. 24.395 24.599 24.804 25.009 25.215 27.986 28.2 28.415 28.63
28.846 -1. 30.829 30.607 30.387 30.387 30.167 29.947 26.462 26.253
26.044 25.836 25.628 25.421]

GOES-16 EUVS-A diode responsivities [Amps * m² * nm / Watt]
[1.0000000e-15 1.8210548e-08 1.7872850e-08 1.7635193e-08 1.7454228e-08
1.7258736e-08 1.3810535e-08 1.3689684e-08 1.3559244e-08 1.3559917e-08
1.3217121e-08 1.0000000e-15 1.2773224e-08 1.2739231e-08 1.2654542e-08
1.2654542e-08 1.2759614e-08 1.2684241e-08 1.5573792e-08 1.5809839e-08
1.6054515e-08 1.6344479e-08 1.6726938e-08 1.7010164e-08]

GOES-16 EUVS-A line masks
25.6 nm [0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1]
28.4 nm [0 0 0 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0]
30.4 nm [0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 1 0 0 0 0 0 0]

GOES-16 EUVS-B line wavelengths [nm]
[117.5, 121.6, 133.5, 140.5]

GOES-16 EUVS-B diode wavelengths [nm]
[141.88 141.05 140.22 139.38 138.55 137.72 122.37 121.95 121.53 121.53
121.11 120.68 -1. 116.7 117.12 117.54 117.96 118.38 132.63 133.05
133.47 133.89 134.31 -1.]

GOES-16 EUVS-B diode responsivities [Amps * m² * nm / Watt]
[3.3457450e-09 3.6301914e-09 3.9625384e-09 4.3122048e-09 4.6960530e-09
5.1125398e-09 6.0373228e-09 5.7111668e-09 5.2045905e-09 5.2045905e-09

4.9323276e-09 4.5921096e-09 1.0000000e-15 1.7799305e-09 2.0083706e-09
2.2521450e-09 2.5313832e-09 2.7887466e-09 6.8362422e-09 6.6506910e-09
6.4254528e-09 6.1740422e-09 6.0242422e-09 1.0000000e-15]

GOES-16 EUVS-B line masks

117.5 nm [0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0 0 0 0 0 0 0]

121.6 nm [0 0 0 0 0 0 0 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0]

133.5 nm [0 1 1 1 0 0]

140.5 nm [0 0 1 1 0]