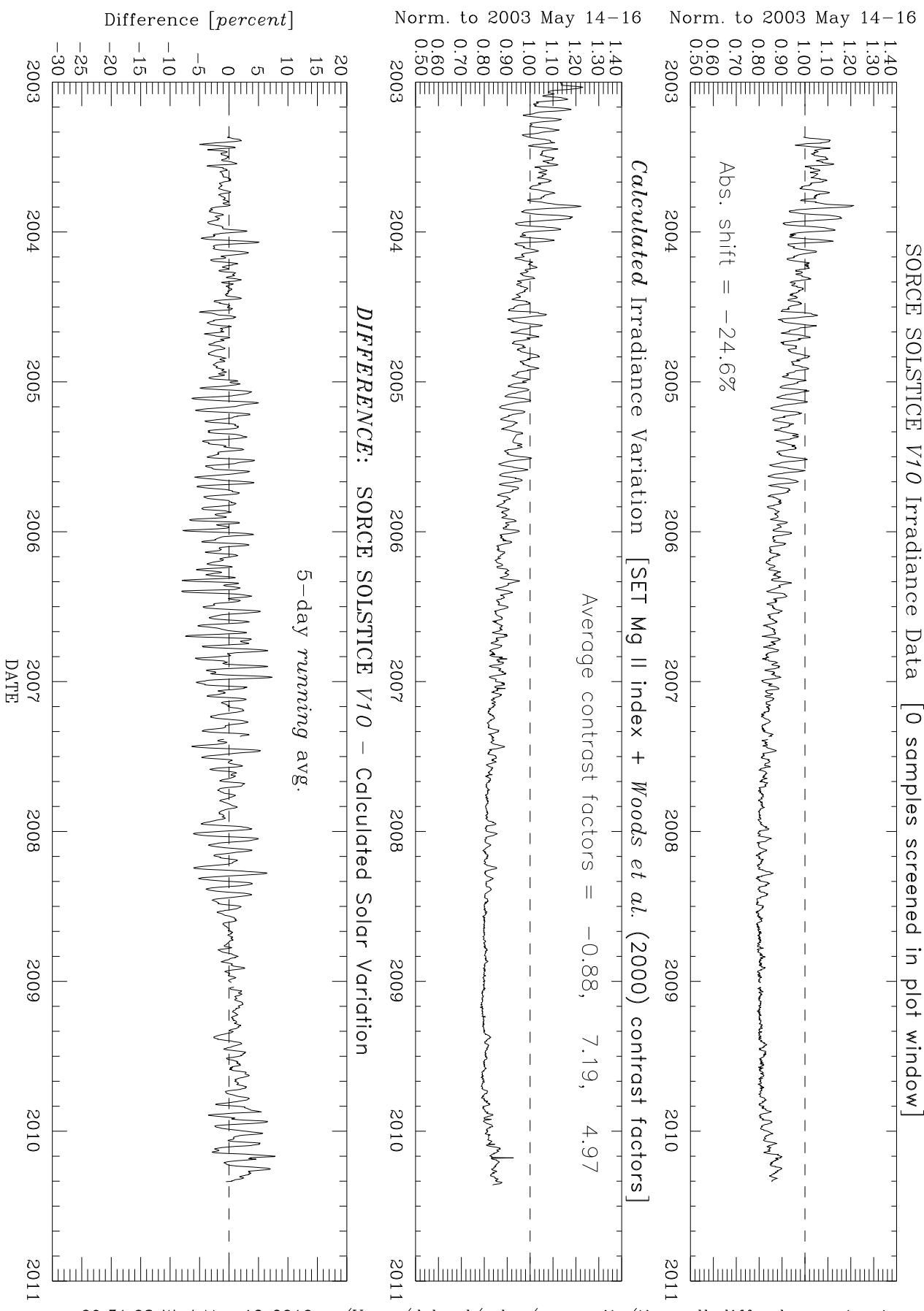


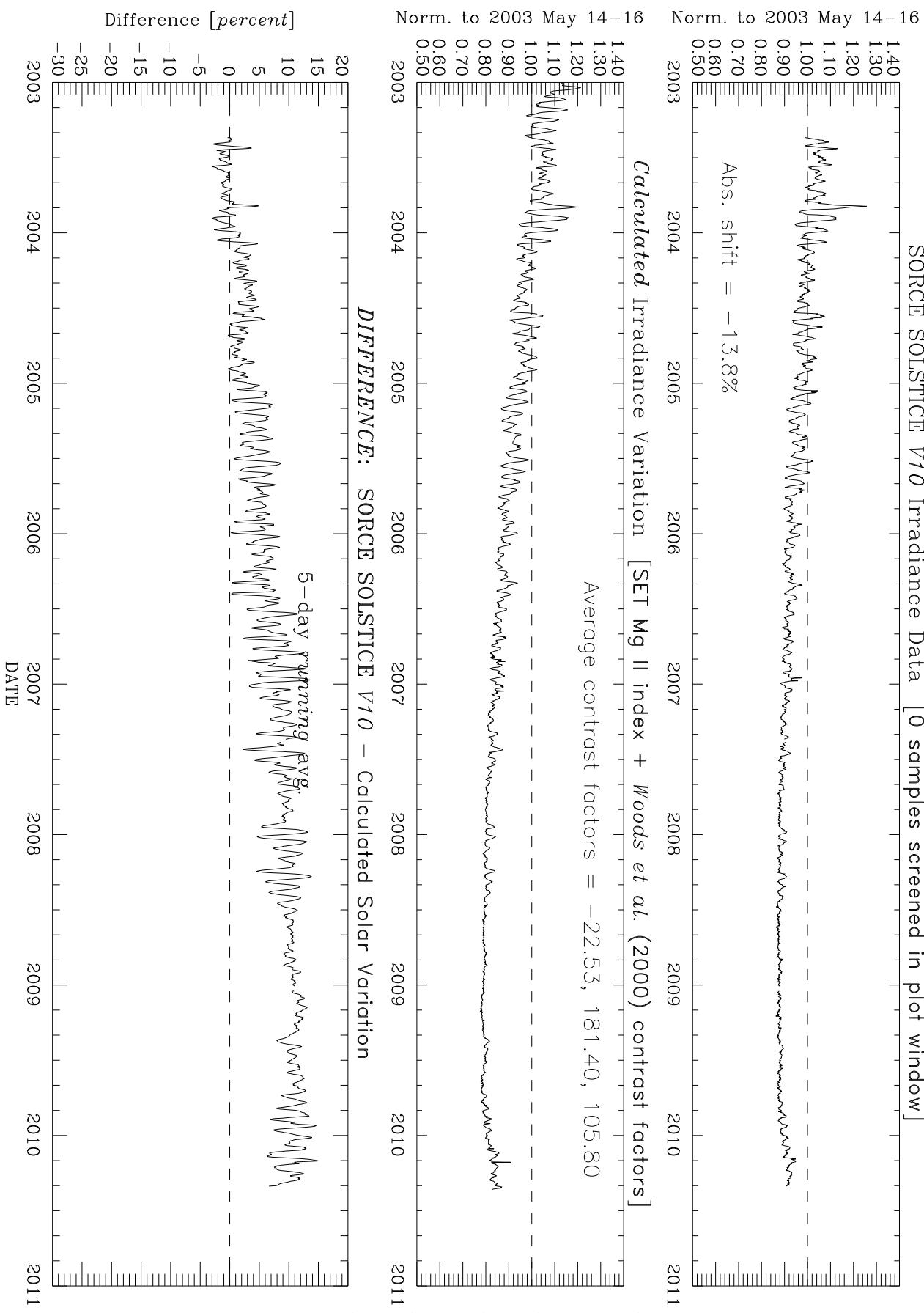
Solar Irradiance Comparison: 120–121 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]



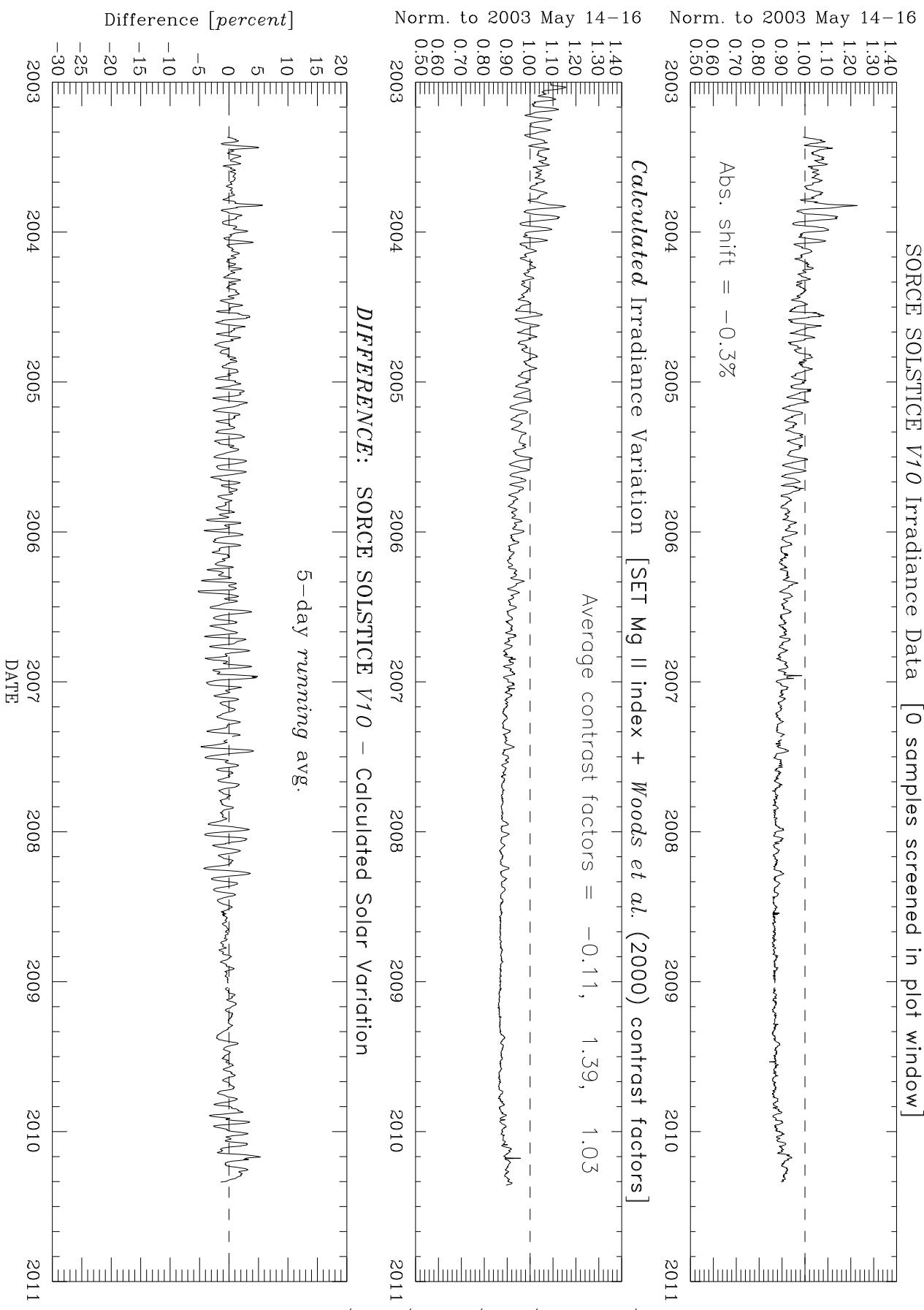
Solar Irradiance Comparison: 122–124 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]



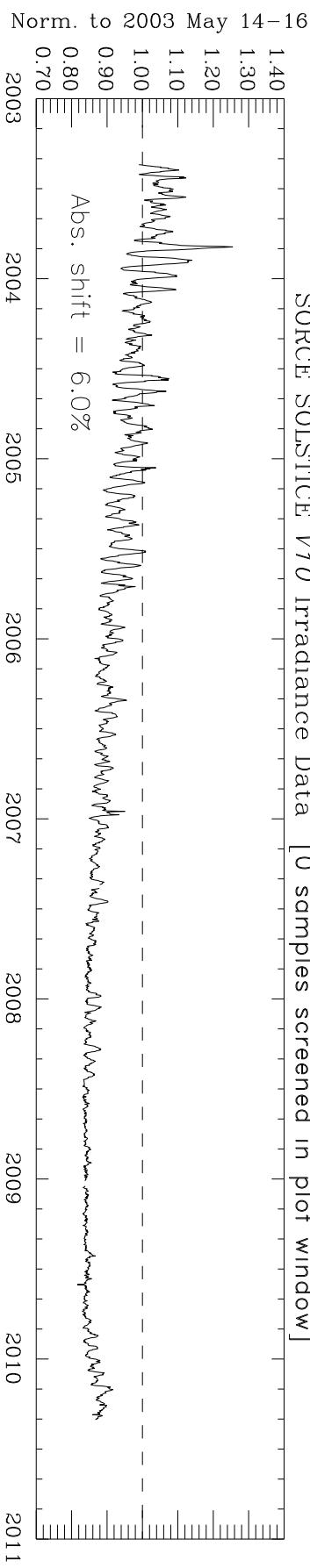
Solar Irradiance Comparison: 125–129 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]



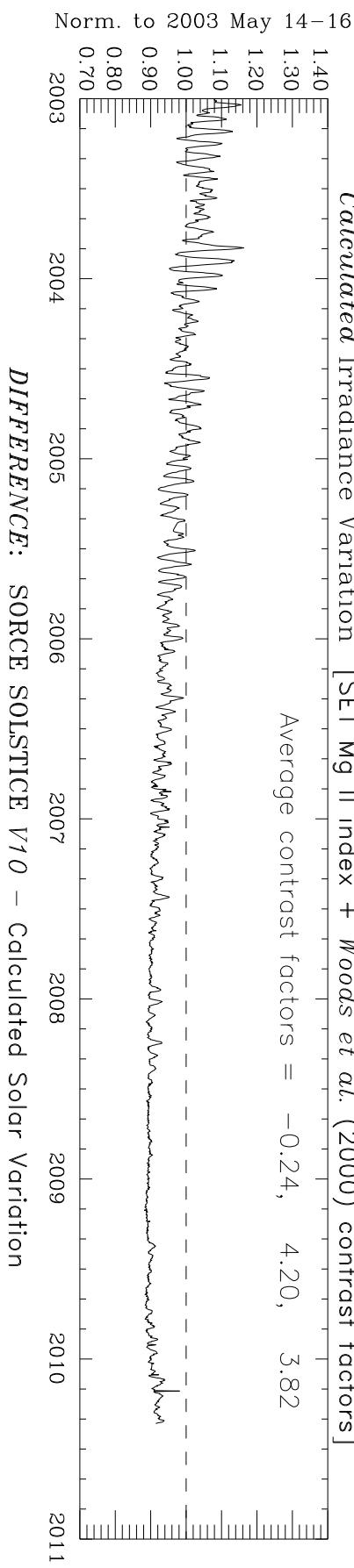
Solar Irradiance Comparison: 130–134 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]

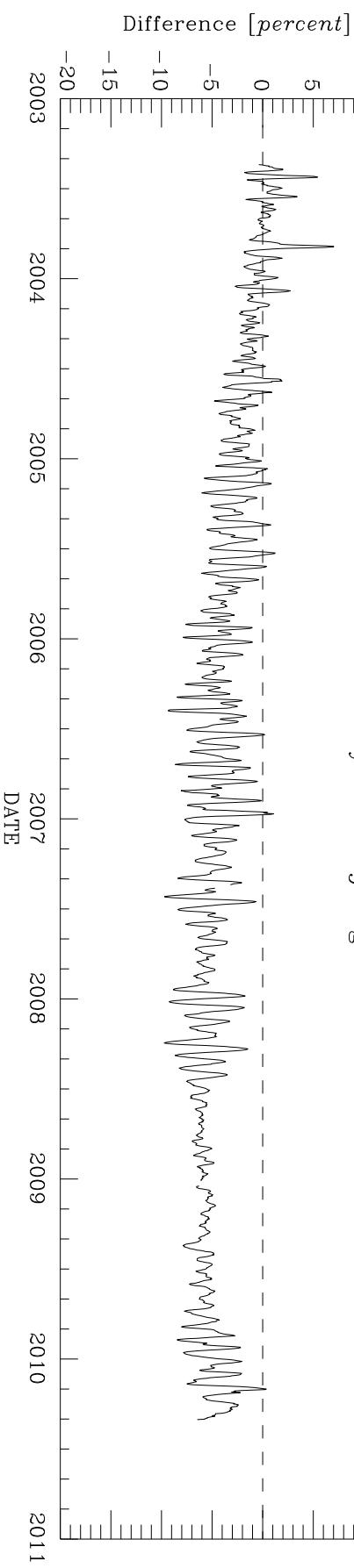


Calculated Irradiance Variation [SET Mg II index + Woods *et al.* (2000) contrast factors]

Average contrast factors = –0.24, 4.20, 3.82

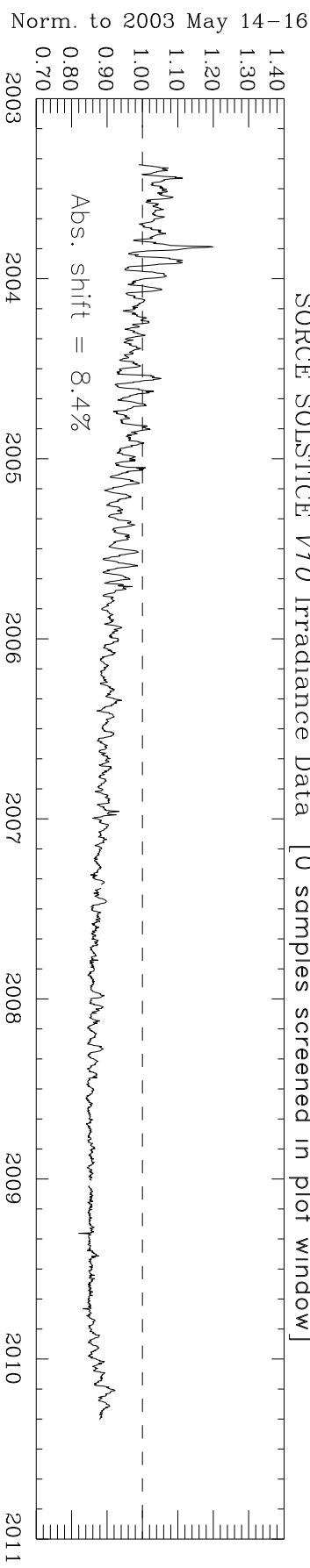


5-day running avg.



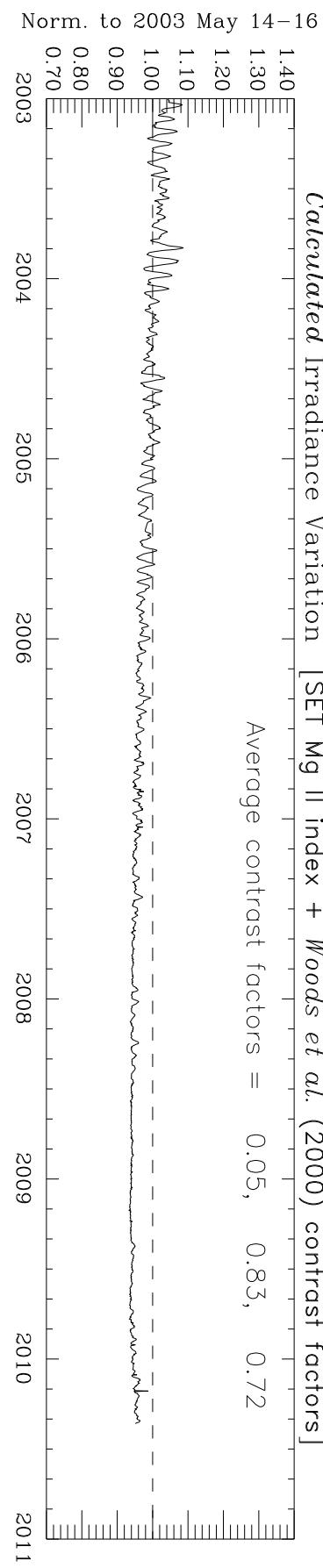
Solar Irradiance Comparison: 135–139 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]



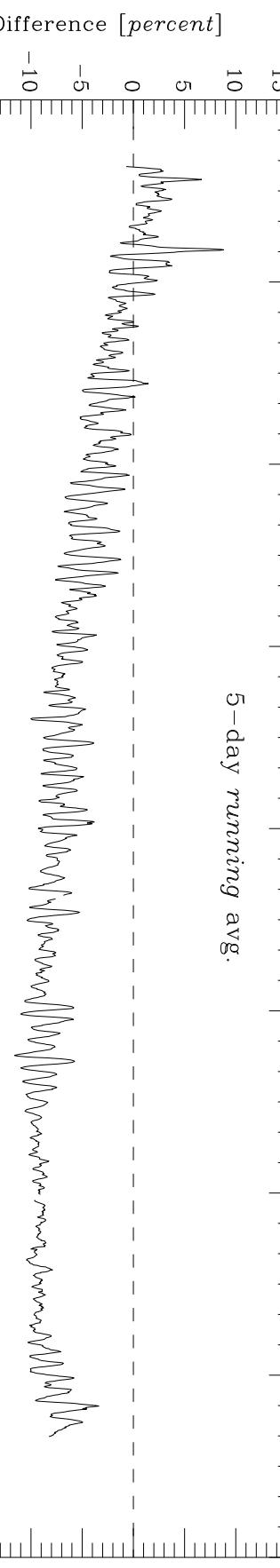
Calculated Irradiance Variation [SET Mg II index + Woods *et al.* (2000) contrast factors]

Average contrast factors = 0.05, 0.83, 0.72



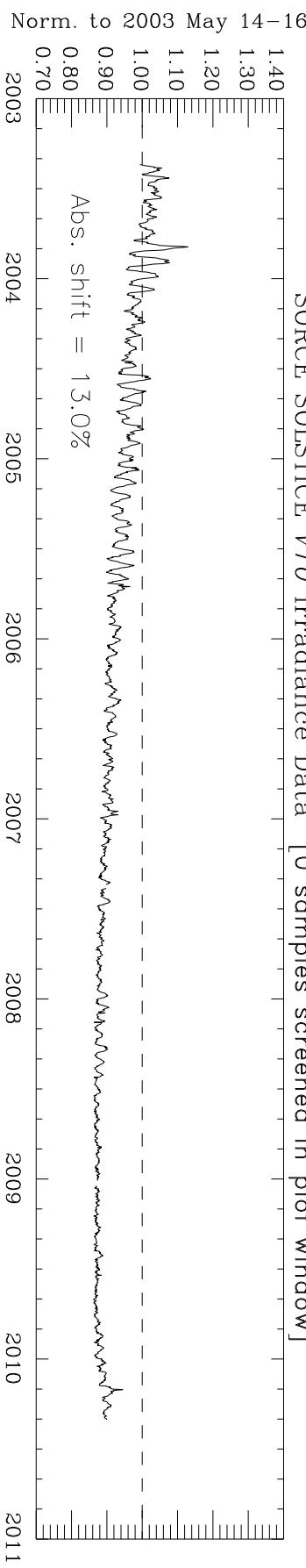
DIFFERENCE: SOURCE SOLSTICE *V10* – Calculated Solar Variation

5-day running avg.



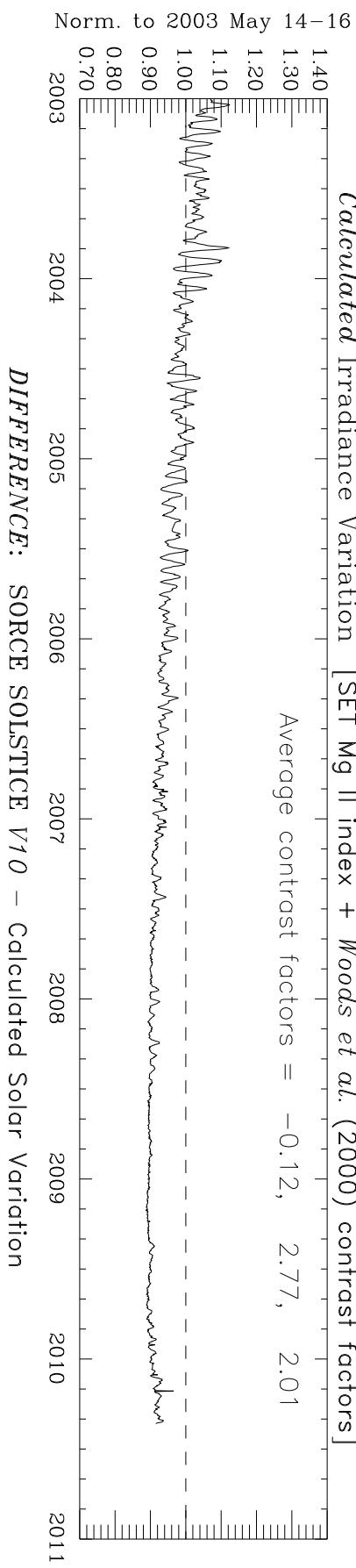
Solar Irradiance Comparison: 140–144 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]

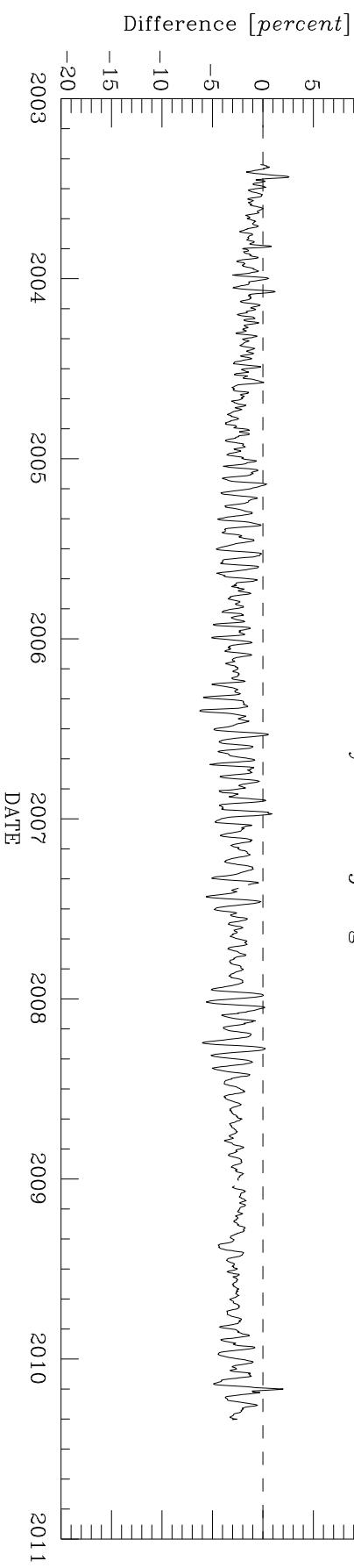


Calculated Irradiance Variation [SET Mg II index + Woods *et al.* (2000) contrast factors]

Average contrast factors = -0.12, 2.77, 2.01

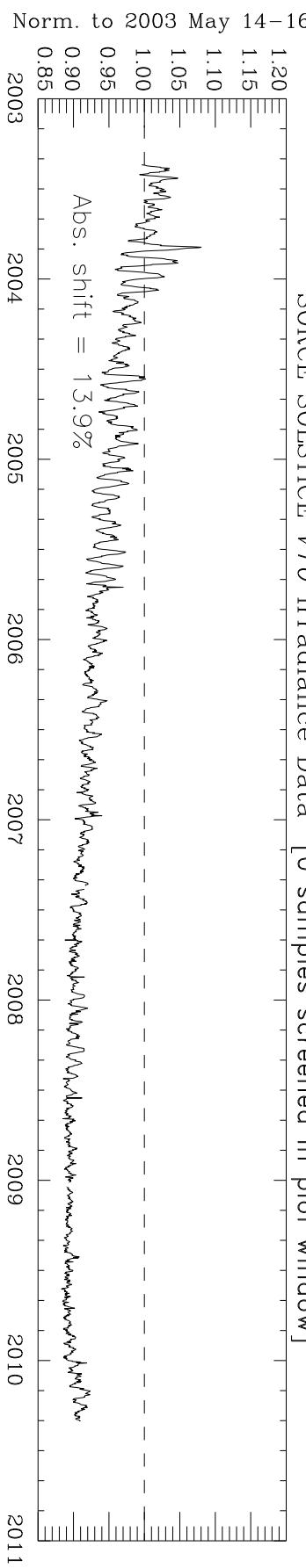


5-day running avg.



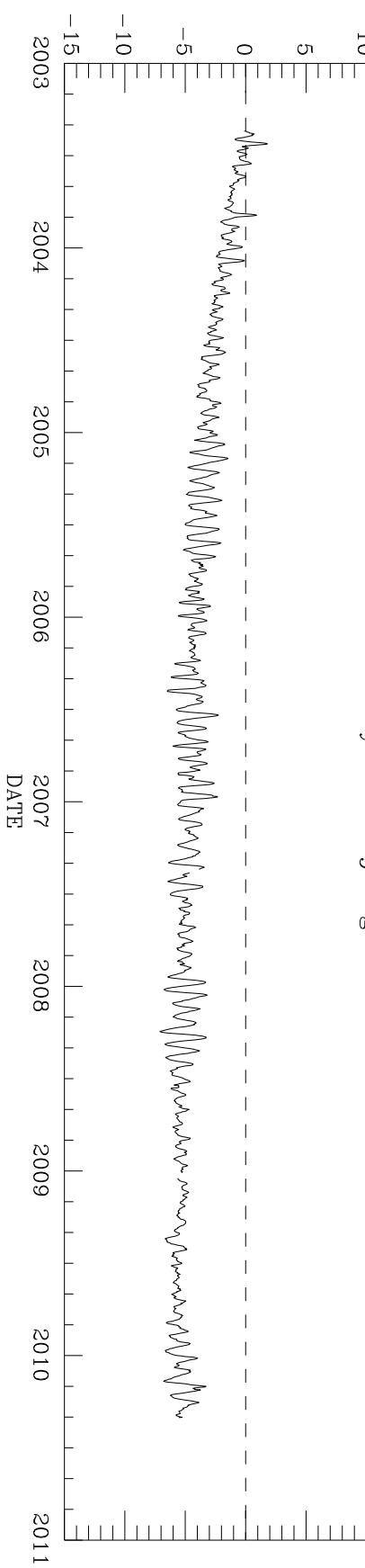
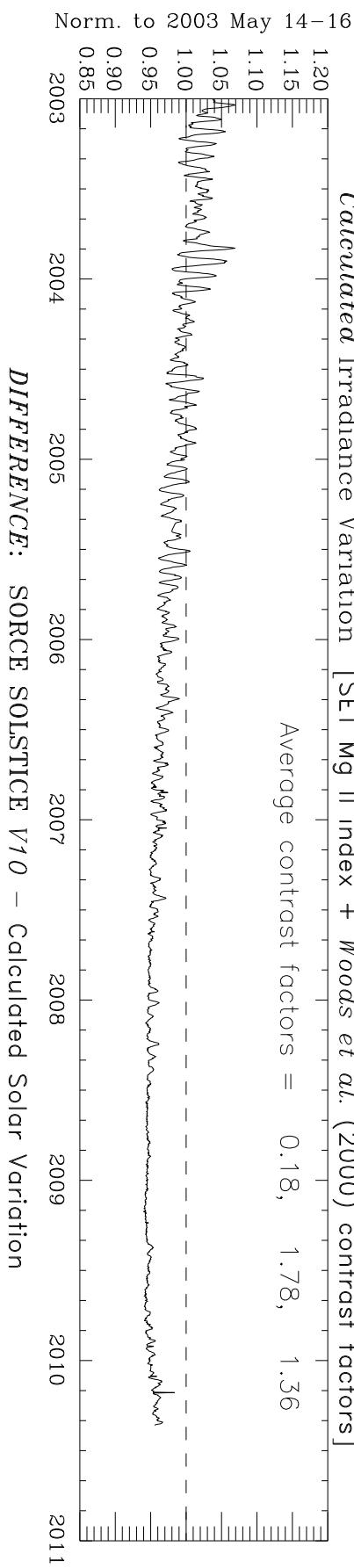
Solar Irradiance Comparison: 145–149 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]



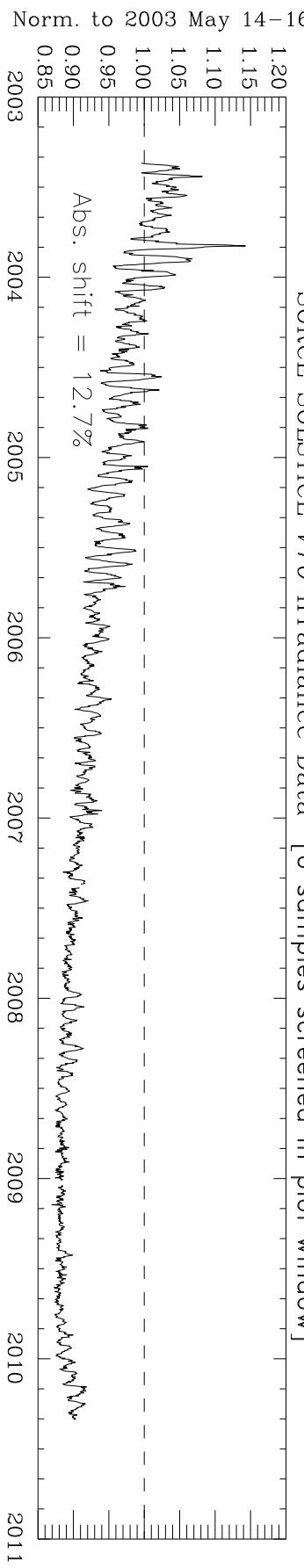
Calculated Irradiance Variation [SET Mg II index + Woods *et al.* (2000) contrast factors]

Average contrast factors = 0.18, 1.78, 1.36



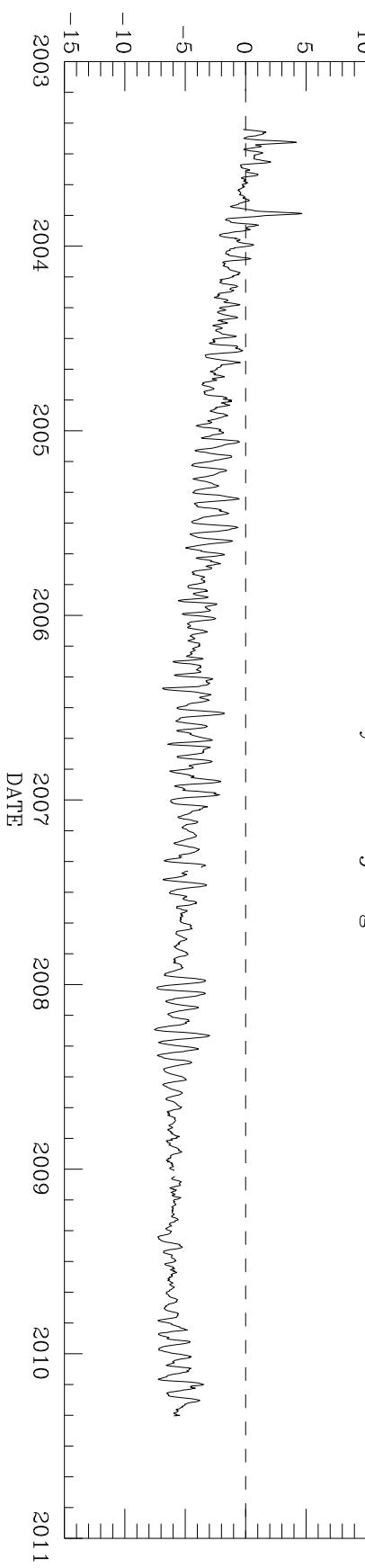
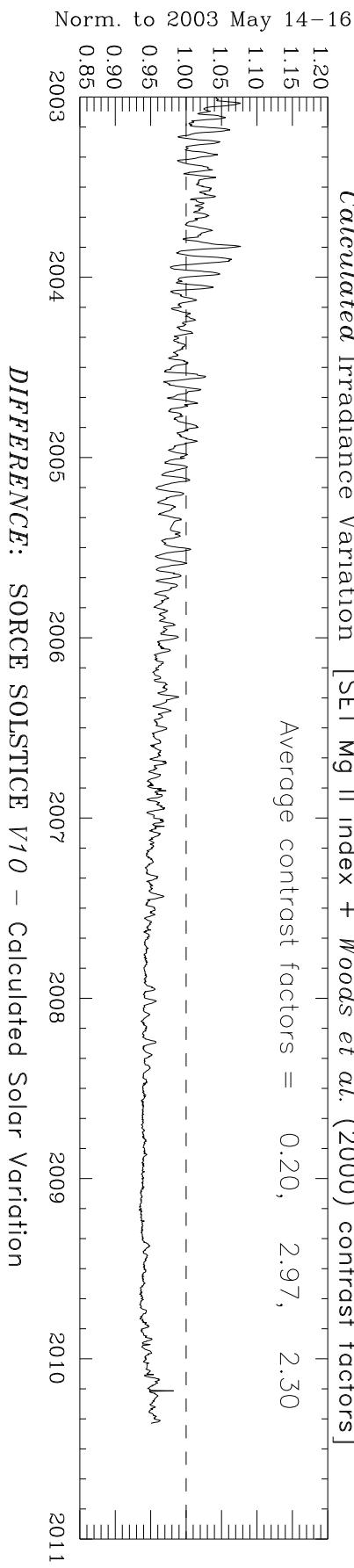
Solar Irradiance Comparison: 150–154 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]



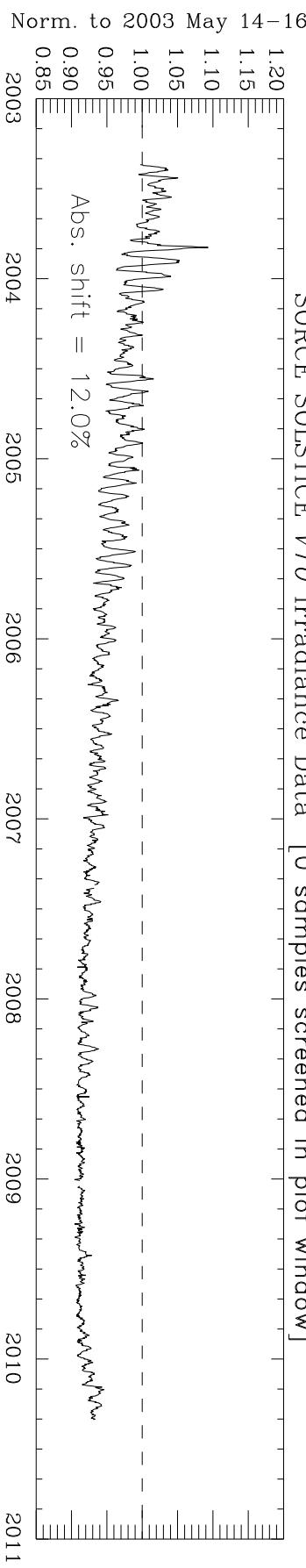
Calculated Irradiance Variation [SET Mg II index + Woods *et al.* (2000) contrast factors]

Average contrast factors = 0.20, 2.97, 2.30

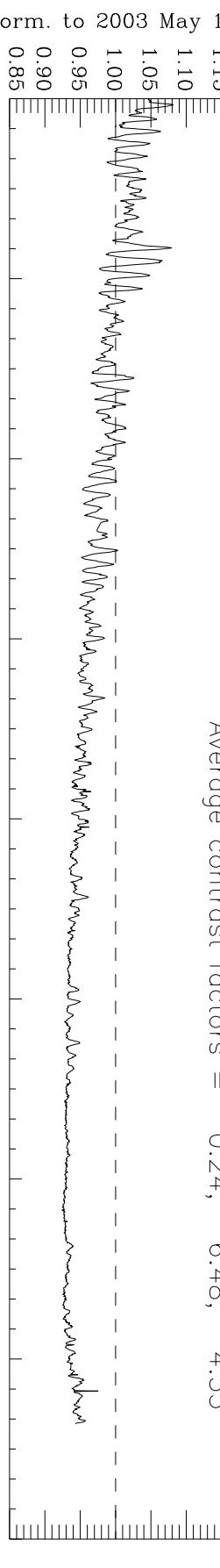


Solar Irradiance Comparison: 155–159 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]

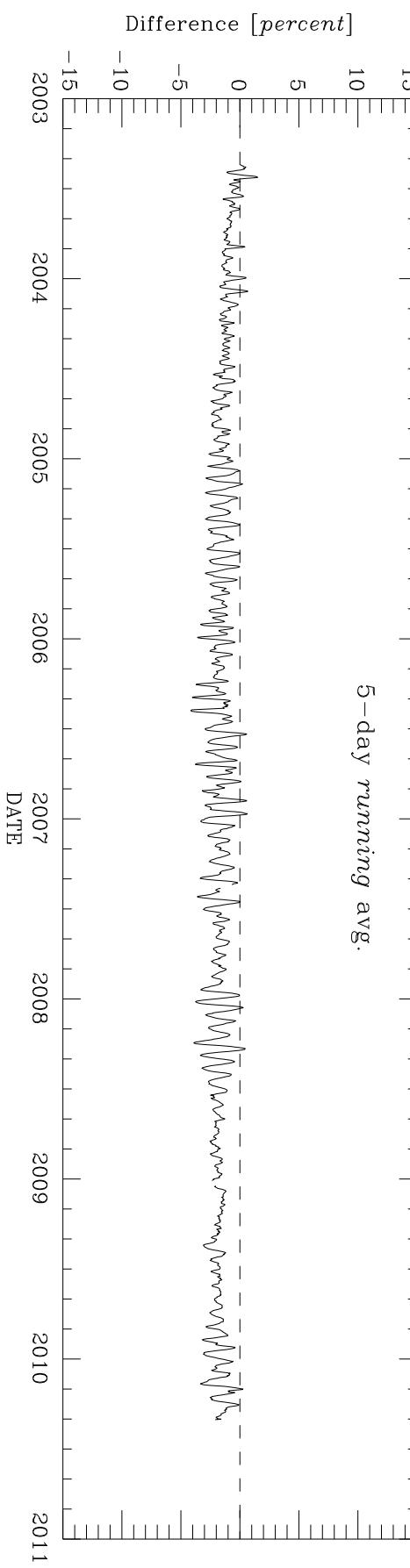


Calculated Irradiance Variation [SET Mg II index + Woods *et al.* (2000) contrast factors]



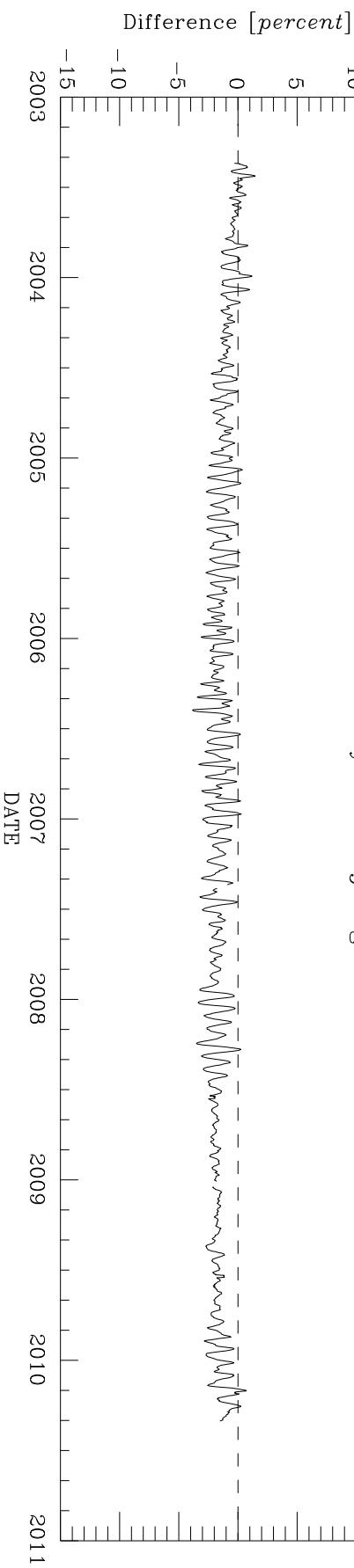
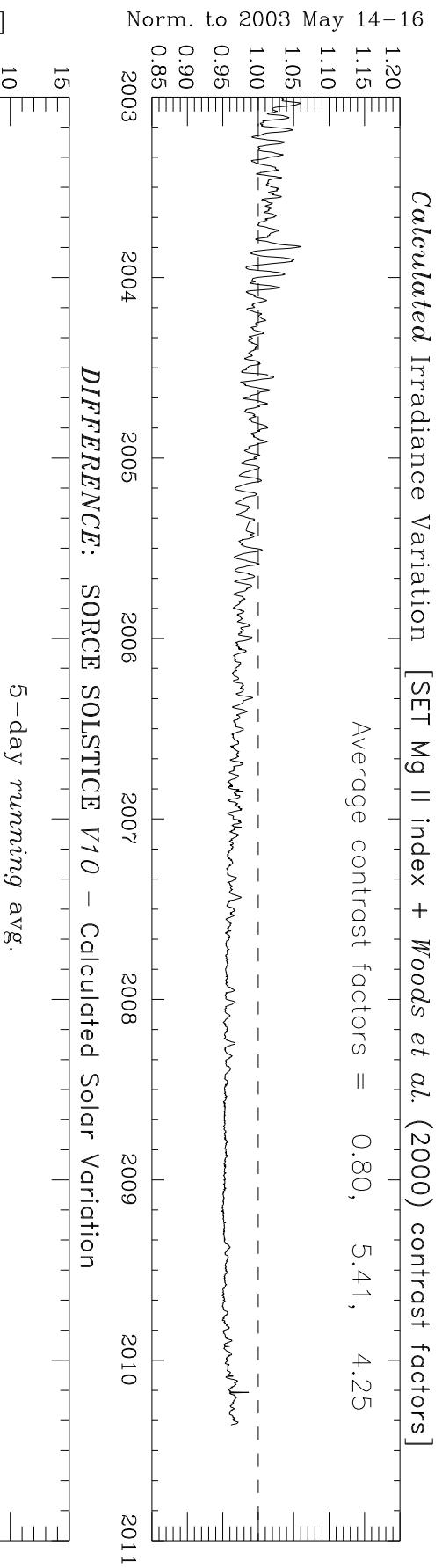
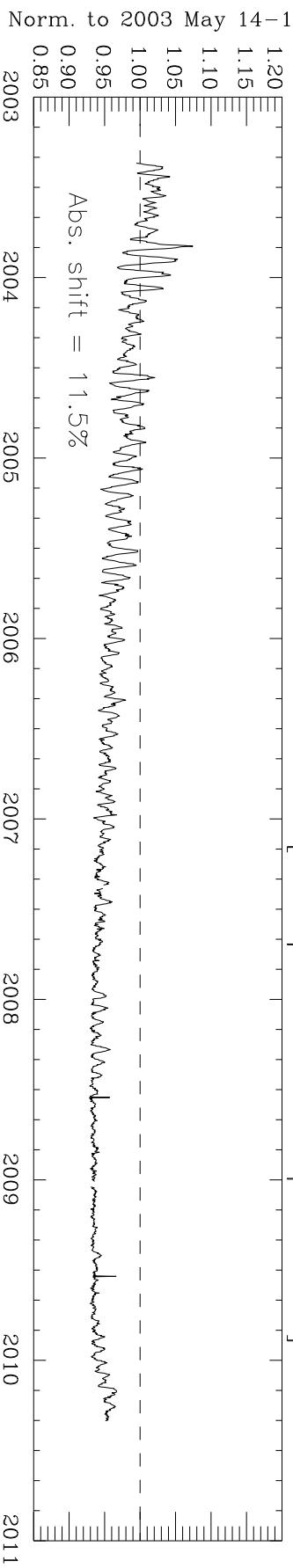
DIFFERENCE: SOURCE SOLSTICE *V10* – Calculated Solar Variation

5-day running avg.



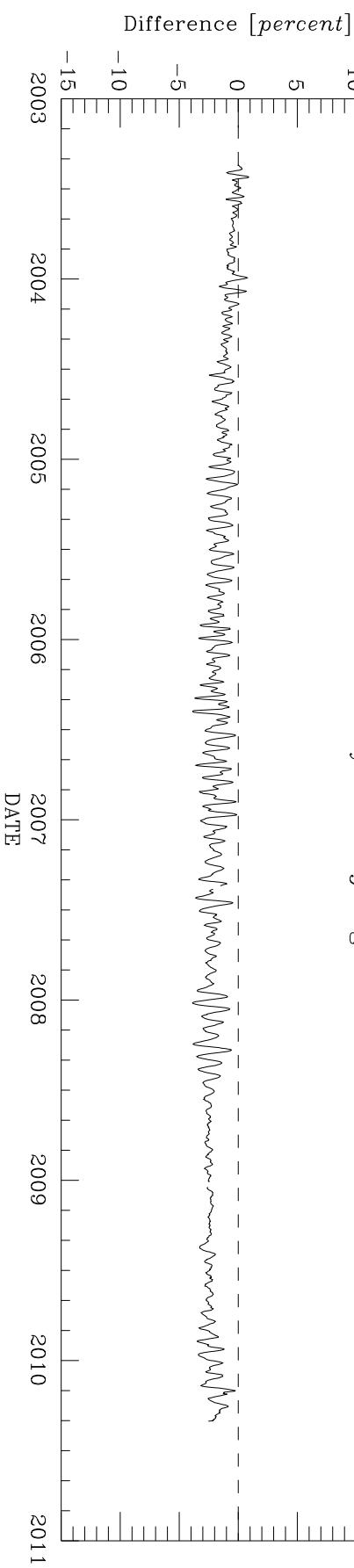
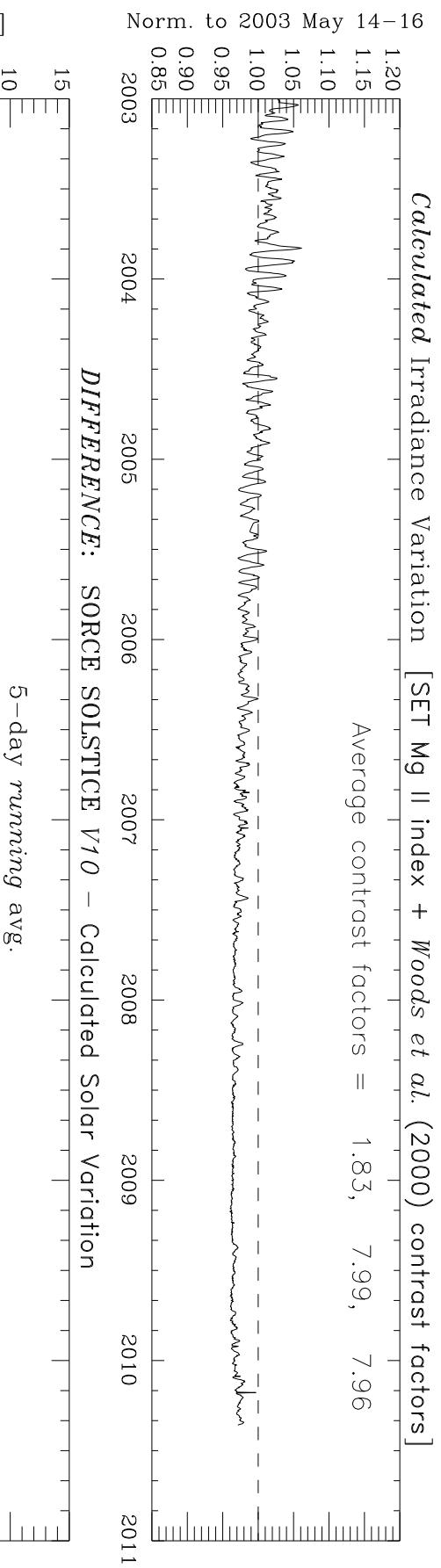
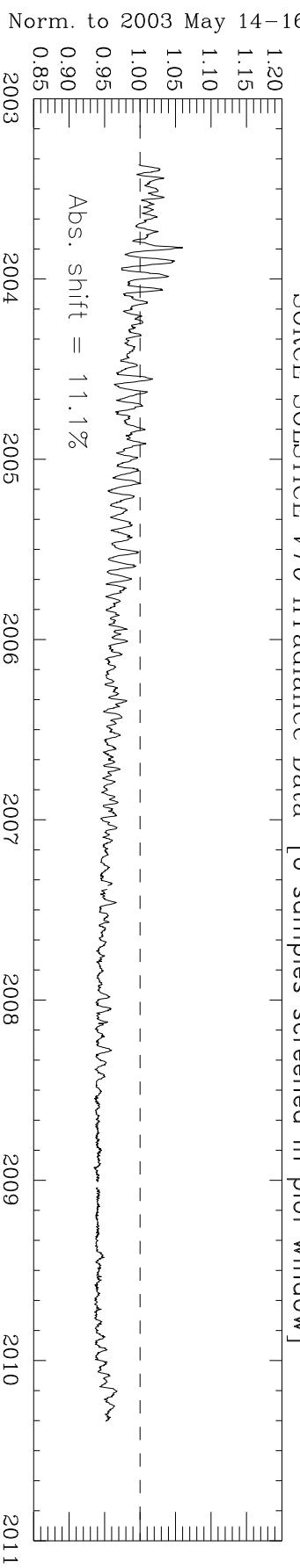
Solar Irradiance Comparison: 160–164 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]



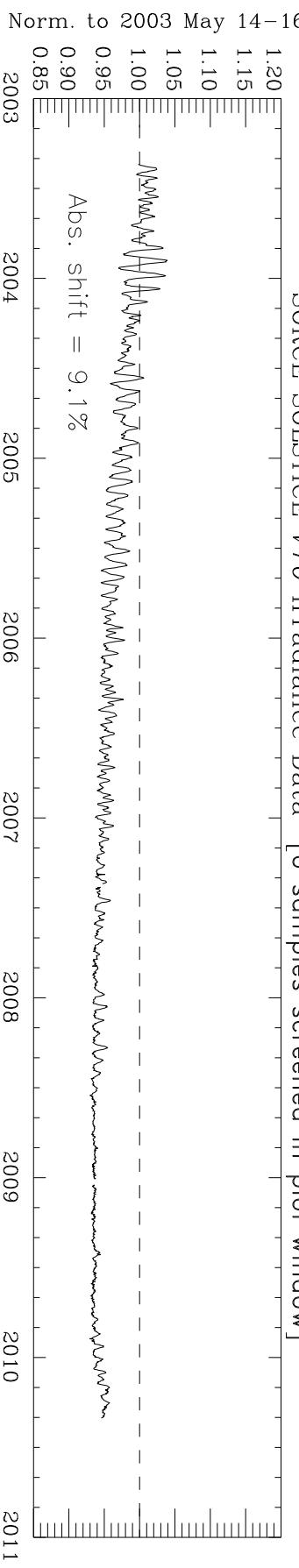
Solar Irradiance Comparison: 165–169 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]

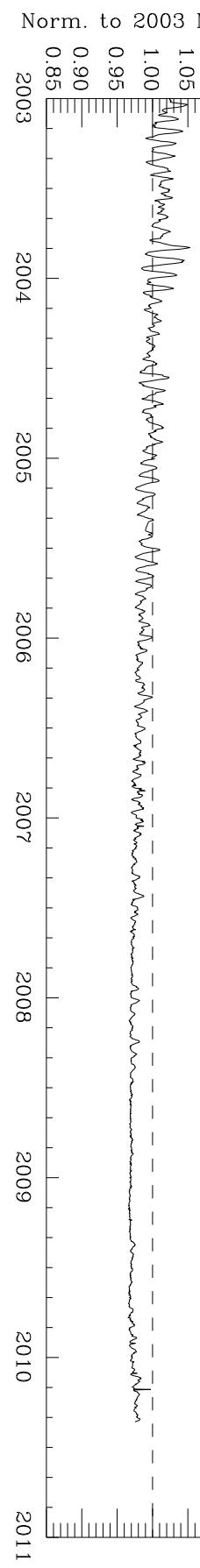


Solar Irradiance Comparison: 170–174 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]

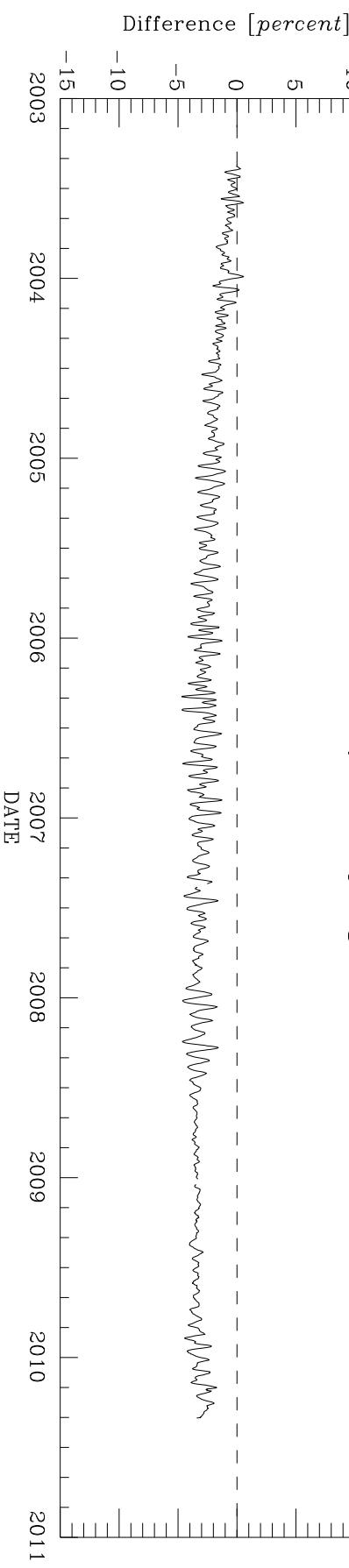


Calculated Irradiance Variation [SET Mg II index + DeLand and Cebula (1993) scale factors]



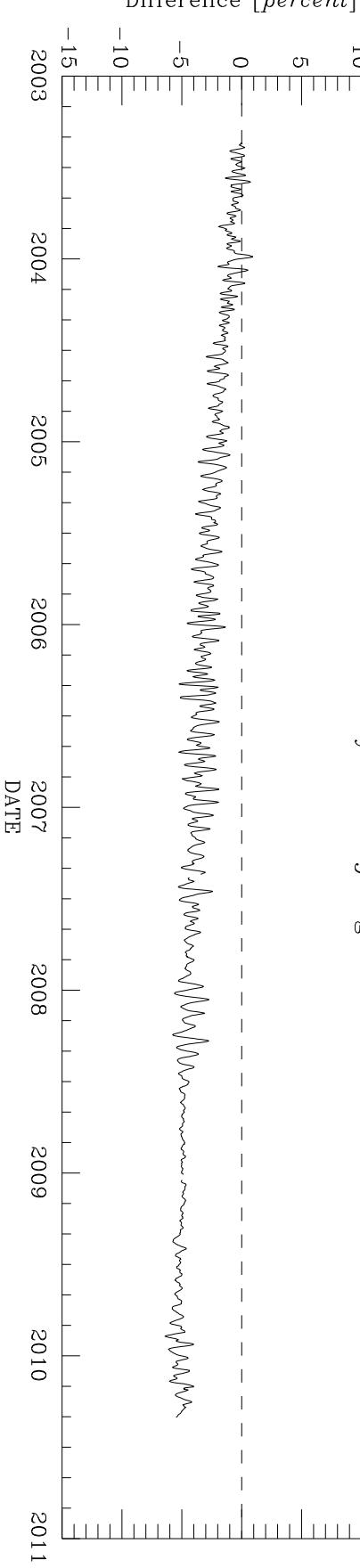
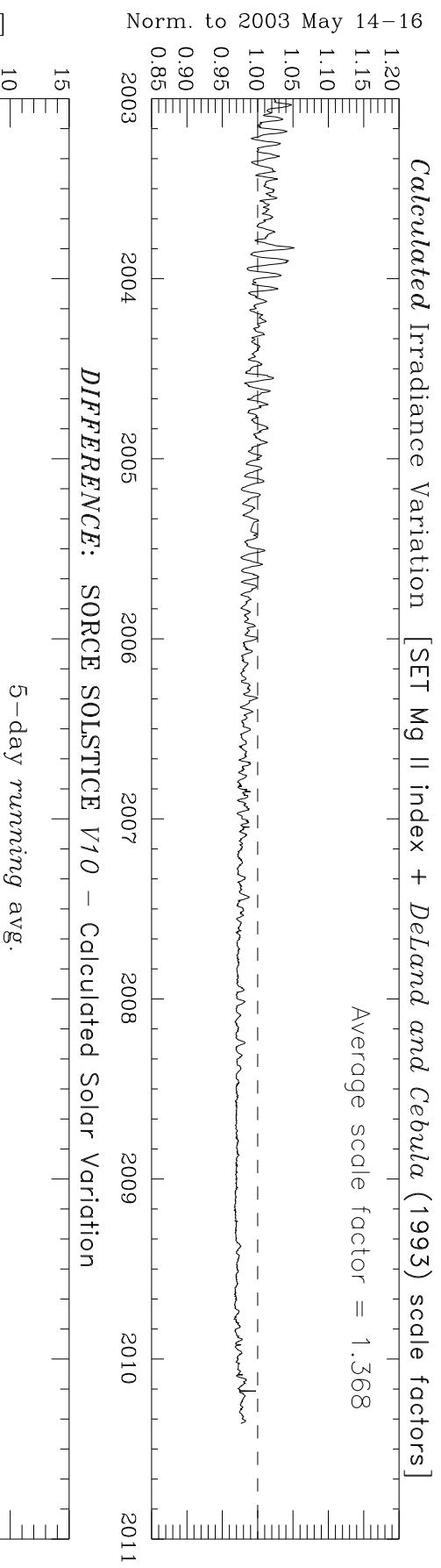
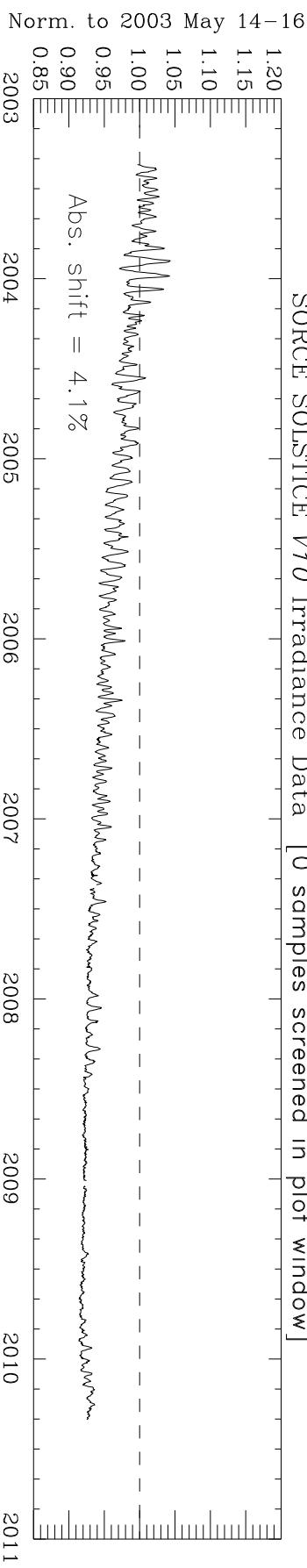
DIFFERENCE: SOURCE SOLSTICE *V10* – Calculated Solar Variation

5-day running avg.



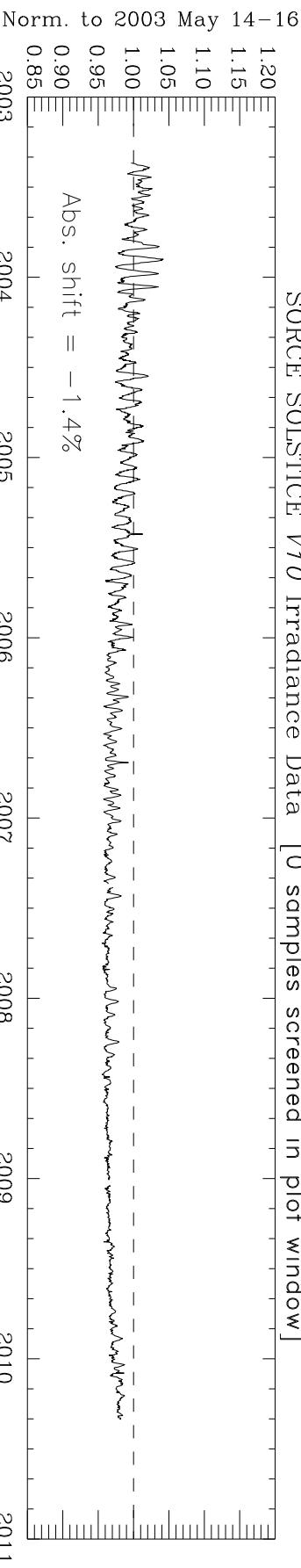
Solar Irradiance Comparison: 175–179 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]

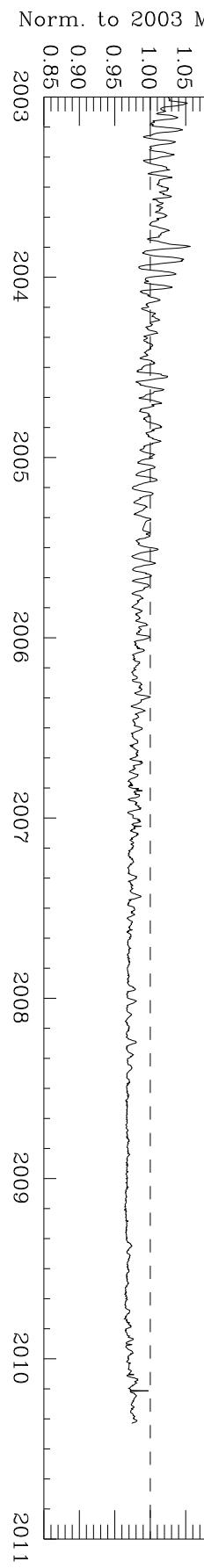


Solar Irradiance Comparison: 180–184 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]

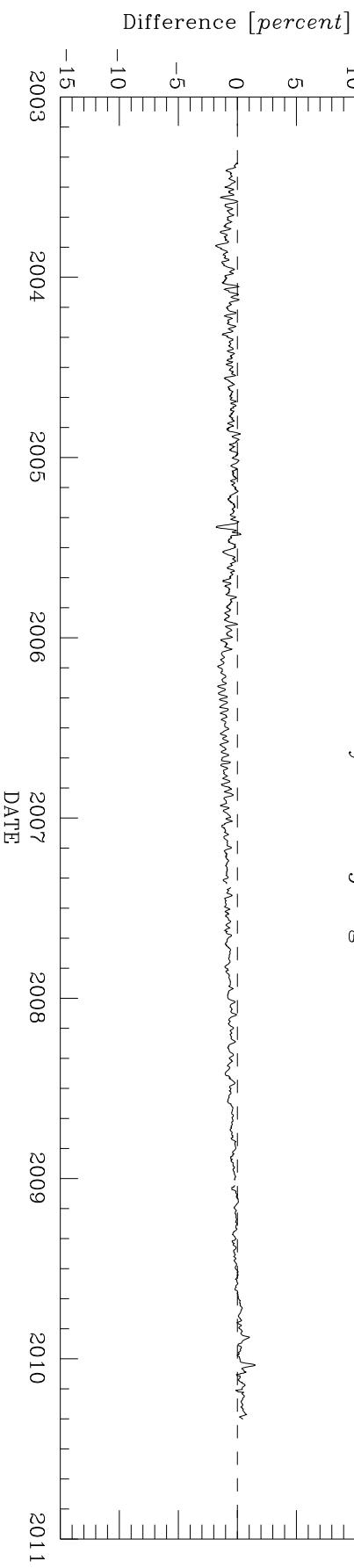


Calculated Irradiance Variation [SET Mg II index + DeLand and Cebula (1993) scale factors]



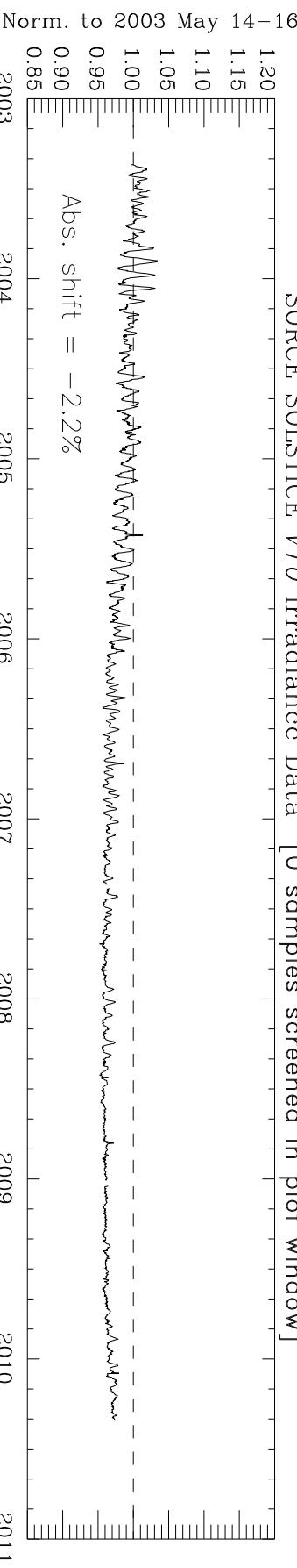
DIFFERENCE: SOURCE SOLSTICE *V10* – Calculated Solar Variation

5-day running avg.

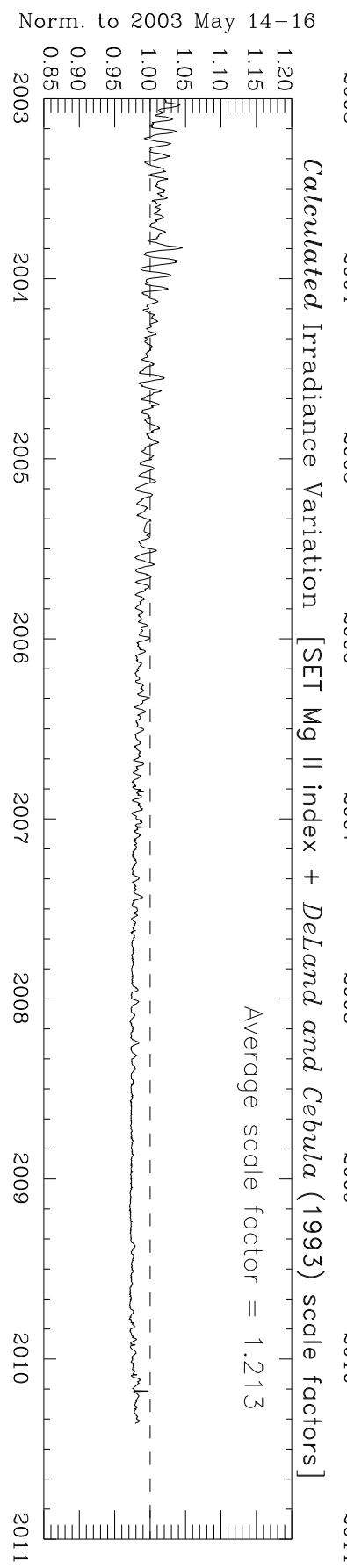


Solar Irradiance Comparison: 185–189 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]

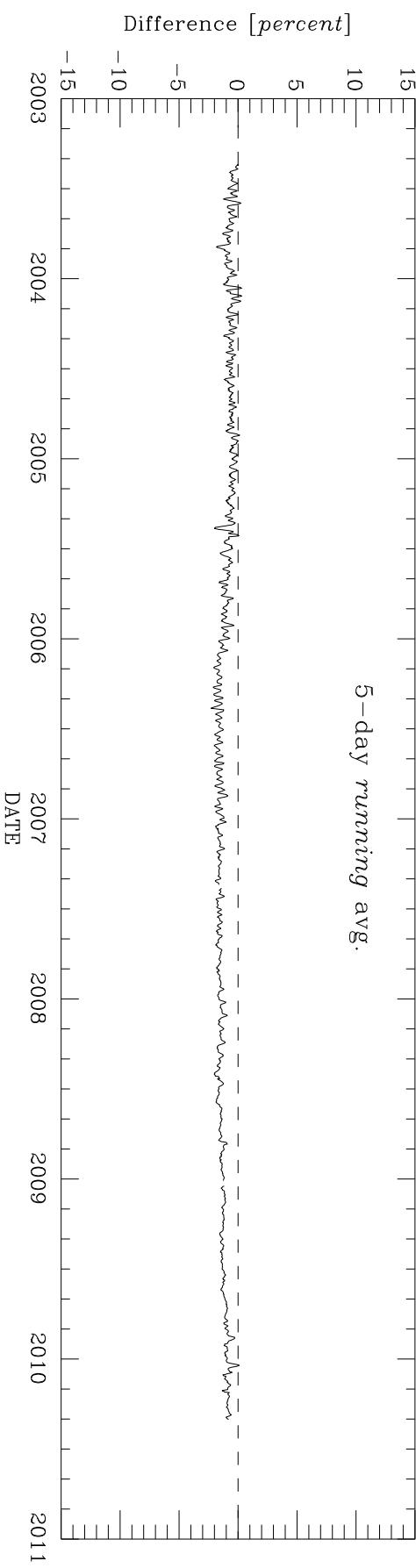


Calculated Irradiance Variation [SET Mg II index + DeLand and Cebula (1993) scale factors]



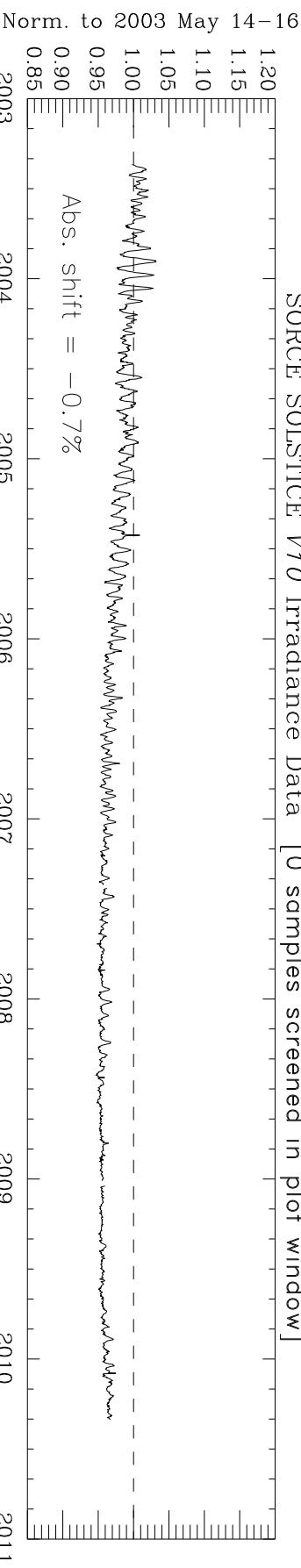
DIFFERENCE: SOURCE SOLSTICE *V10* – Calculated Solar Variation

5-day running avg.

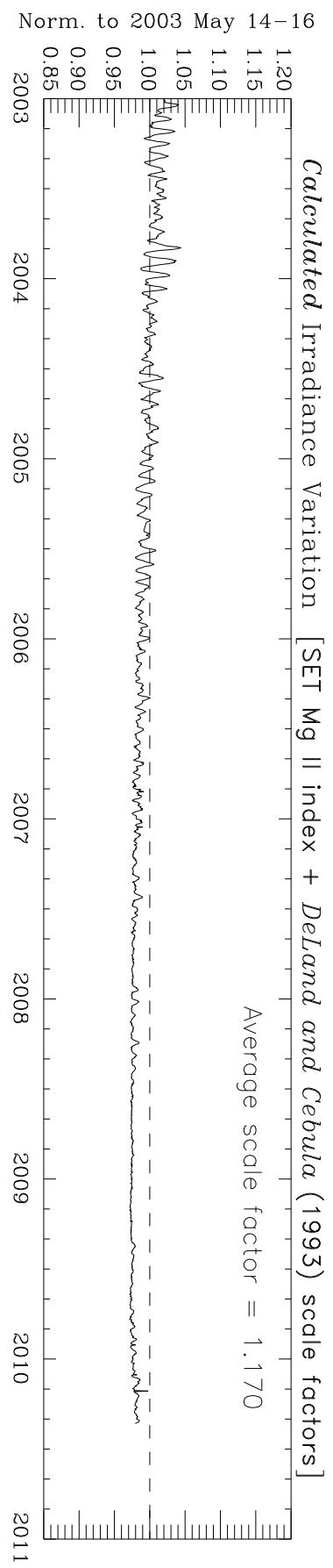


Solar Irradiance Comparison: 190–194 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]

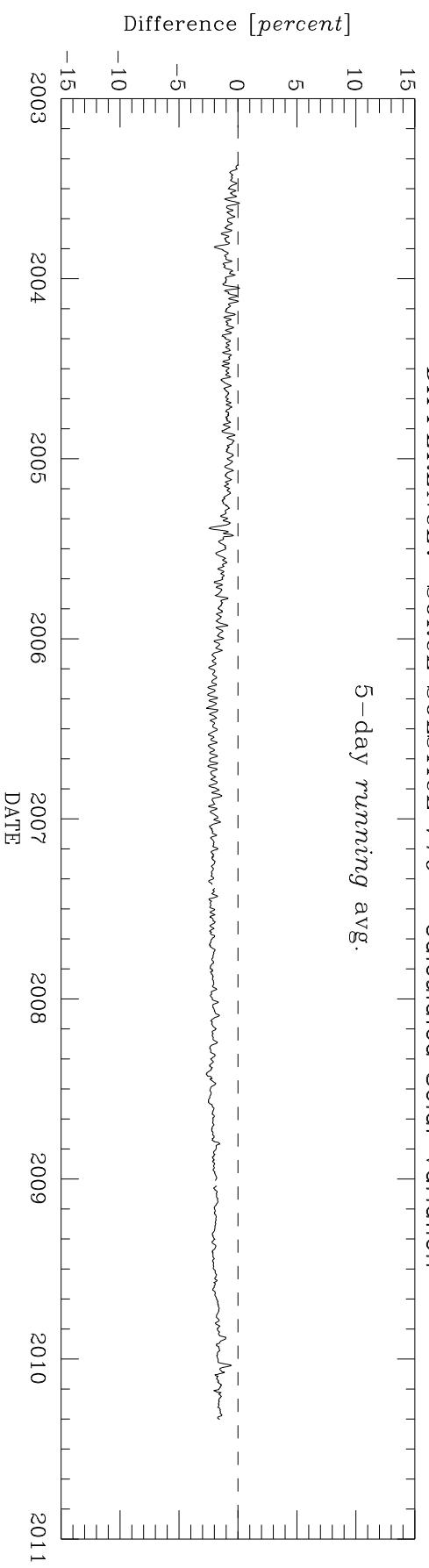


Calculated Irradiance Variation [SET Mg II index + DeLand and Cebula (1993) scale factors]



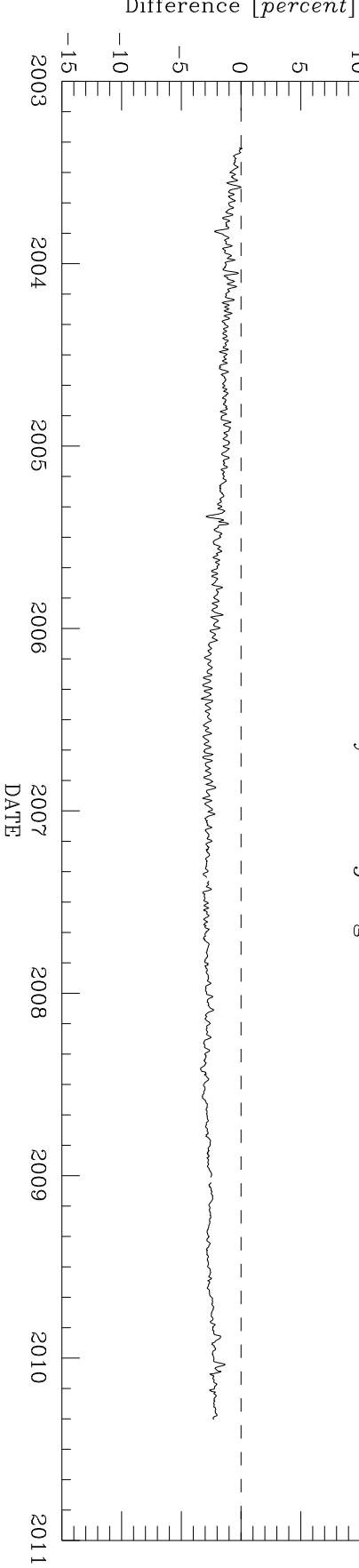
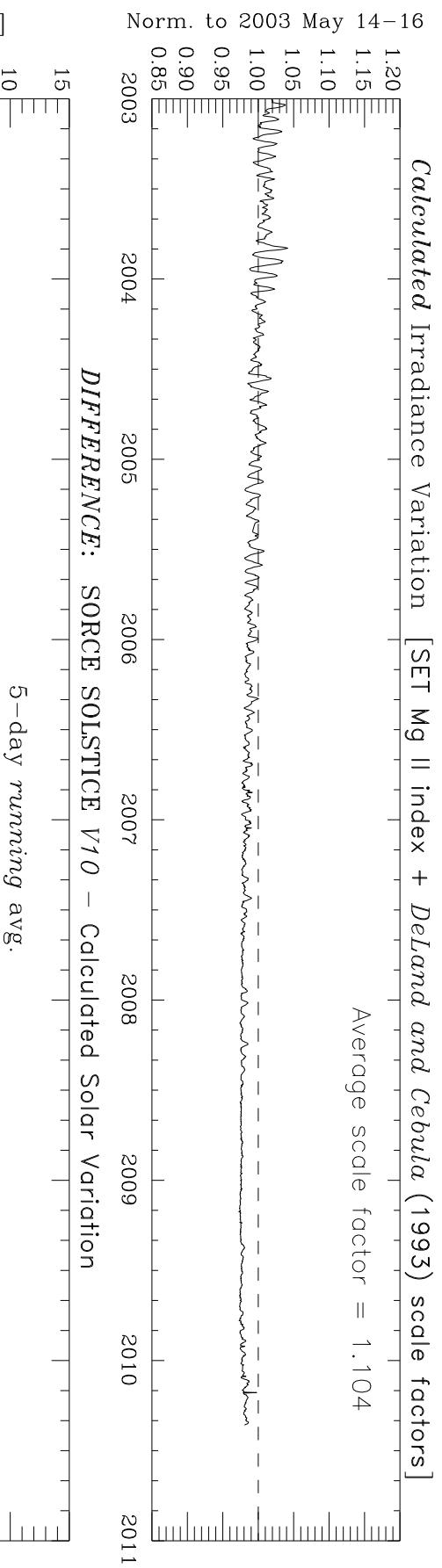
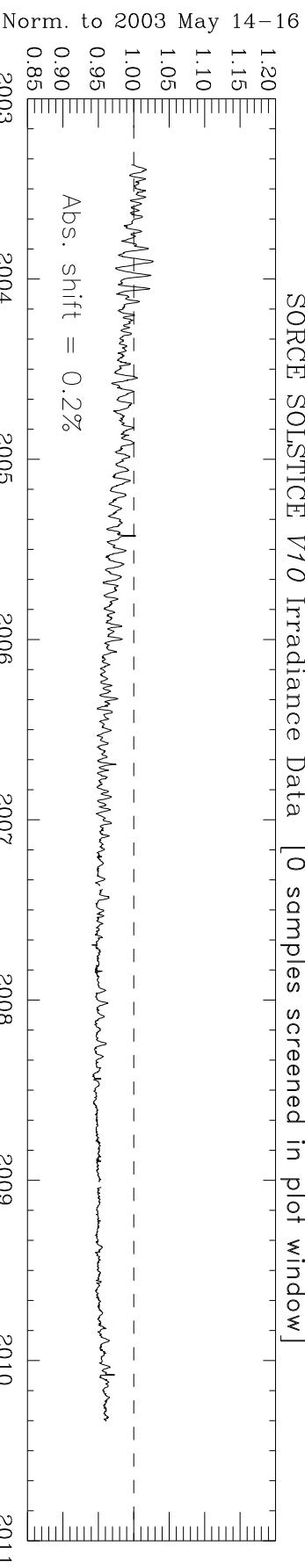
DIFFERENCE: SOURCE SOLSTICE *V10* – Calculated Solar Variation

5-day running avg.



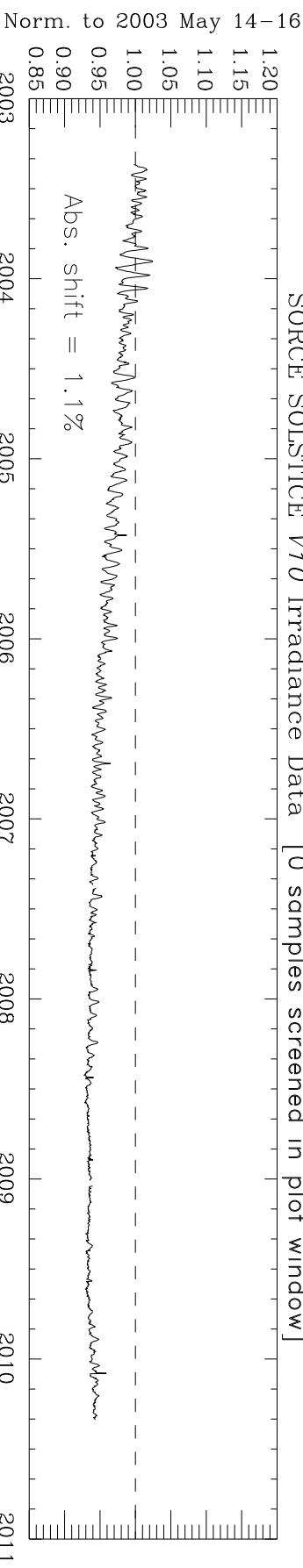
Solar Irradiance Comparison: 195–199 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]

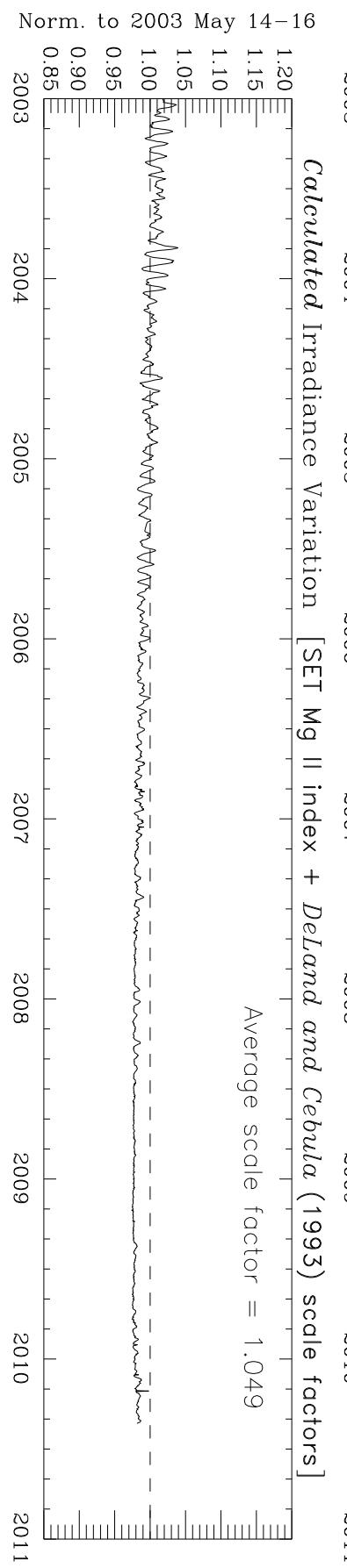


Solar Irradiance Comparison: 2000–2007 nm

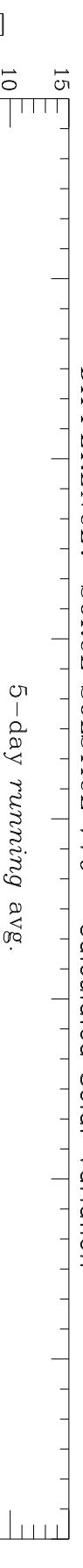
SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]



Calculated Irradiance Variation [SET Mg II index + DeLand and Cebula (1993) scale factors]

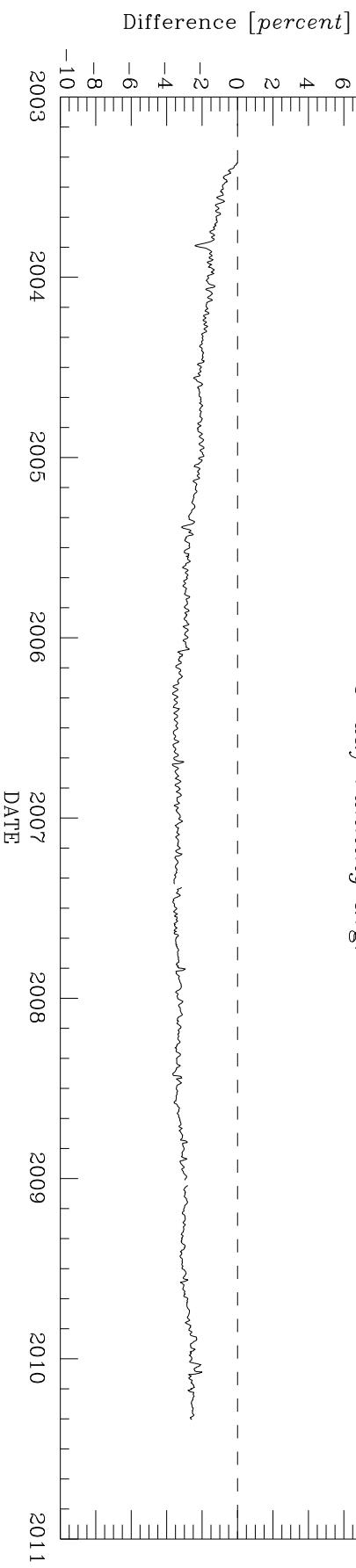
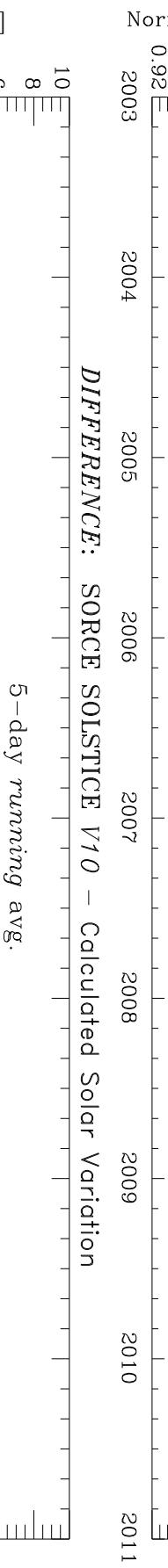
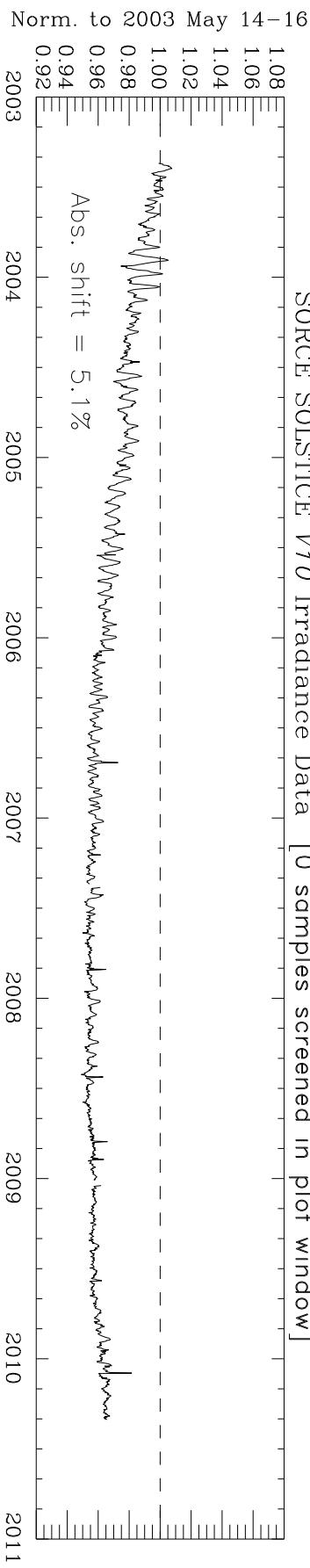


DIFFERENCE: SOURCE SOLSTICE *V10* – Calculated Solar Variation



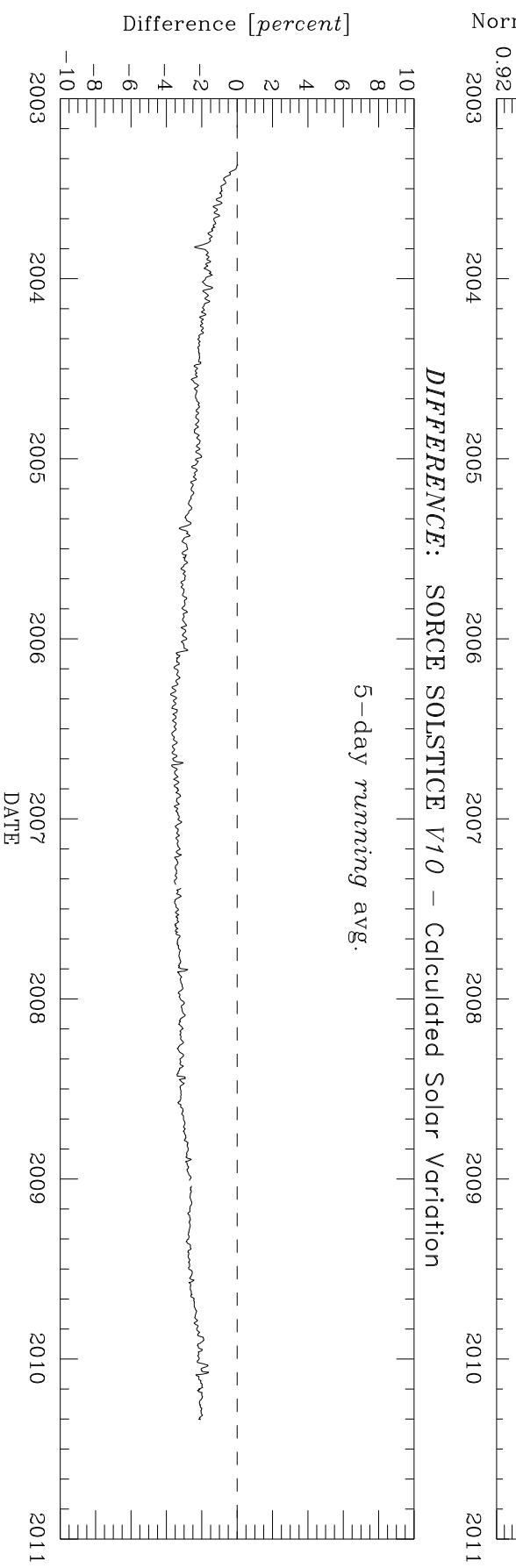
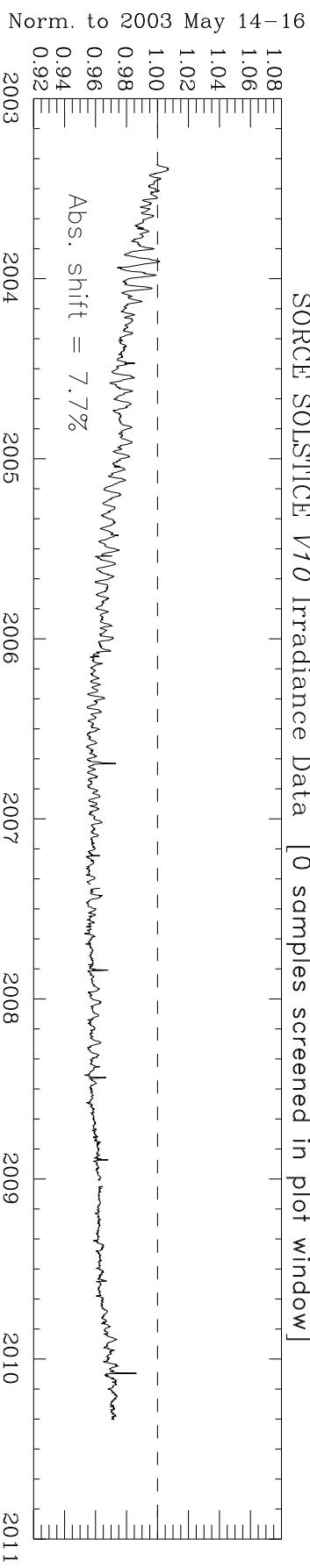
Solar Irradiance Comparison: 208–214 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]



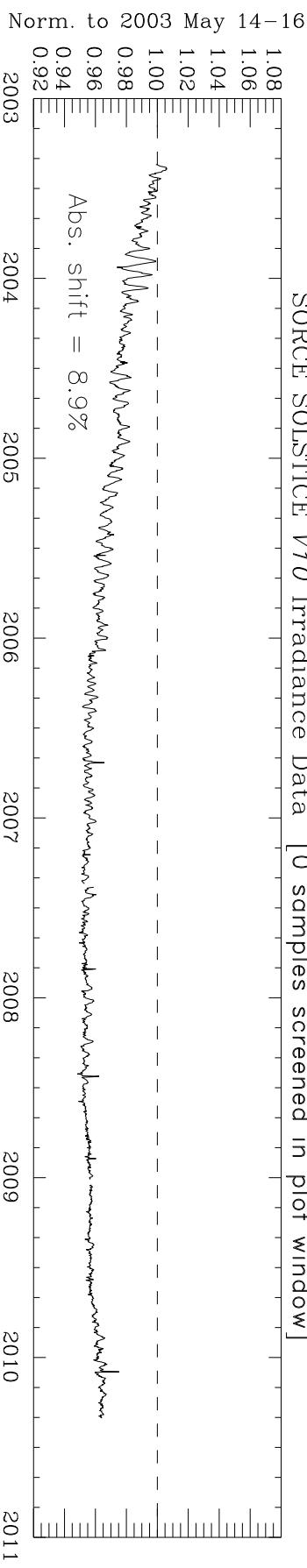
Solar Irradiance Comparison: 215–219 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]

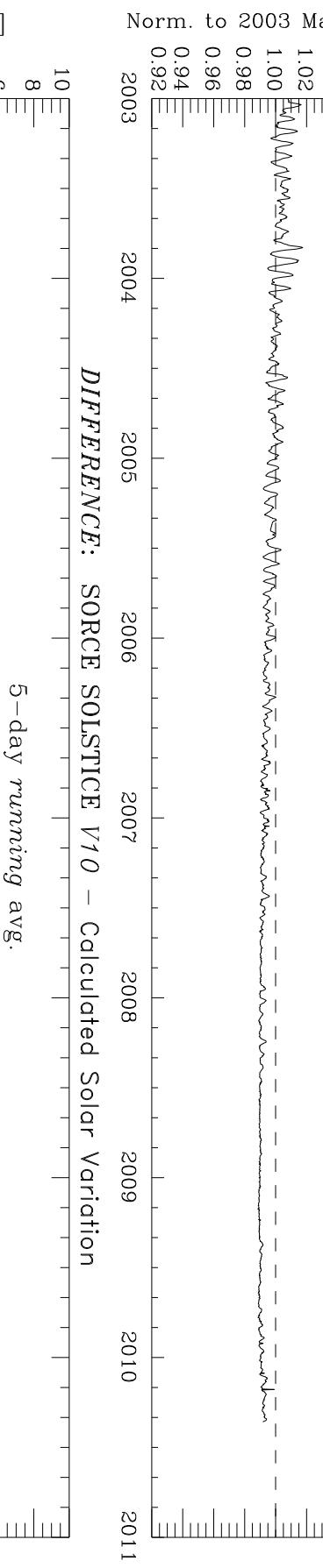


Solar Irradiance Comparison: 220–224 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]



Calculated Irradiance Variation [SET Mg II index + DeLand and Cebula (1993) scale factors]

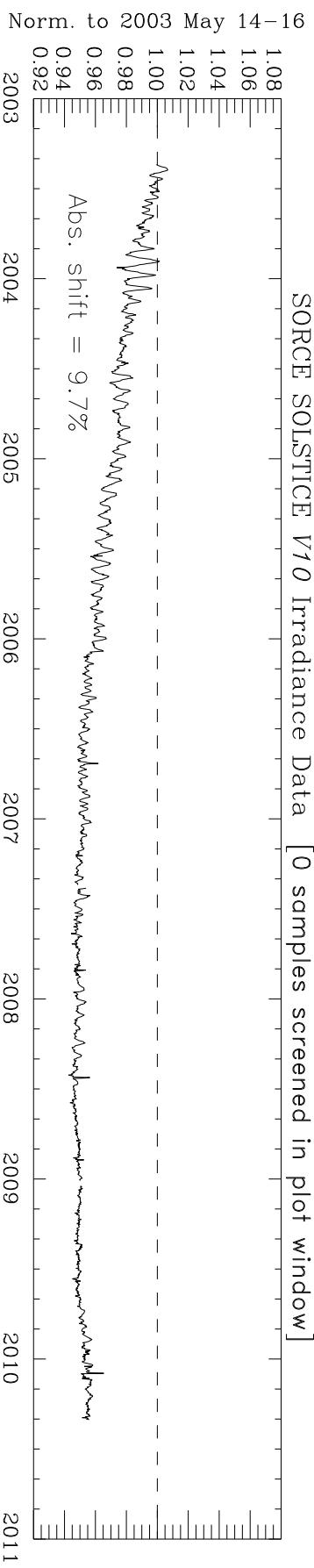


09:31:13 Wed May 12 2010 /Users/deland/solar/composite/time_all_diff_solar_contrast.pro

2003 2004 2005 2006 2007 2008 2009 2010 2011

Solar Irradiance Comparison: 225–229 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]



May

14–16

Calculated Irradiance Variation [SET Mg II index + DeLand and Cebula (1993) scale factors]

2003

2004

2005

2006

2007

2008

2009

2010

2011

DIFFERENCE: SOURCE SOLSTICE *V10* – Calculated Solar Variation

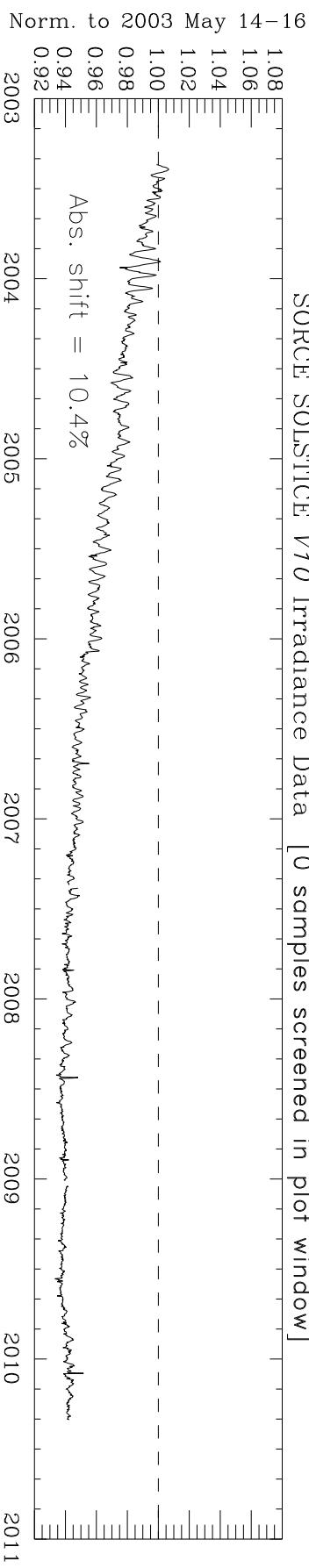
5-day running avg.

Difference [percent]

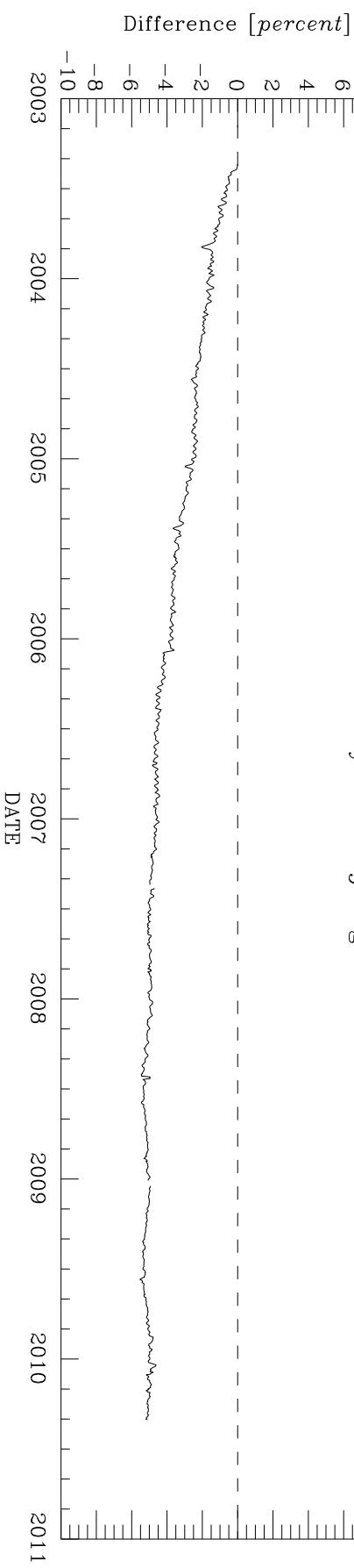
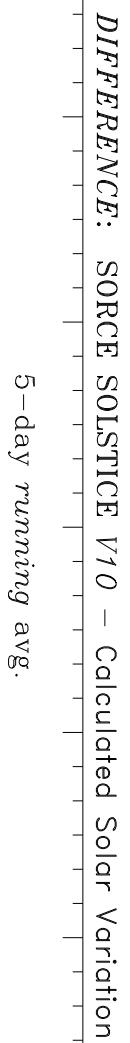


Solar Irradiance Comparison: 230–234 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]

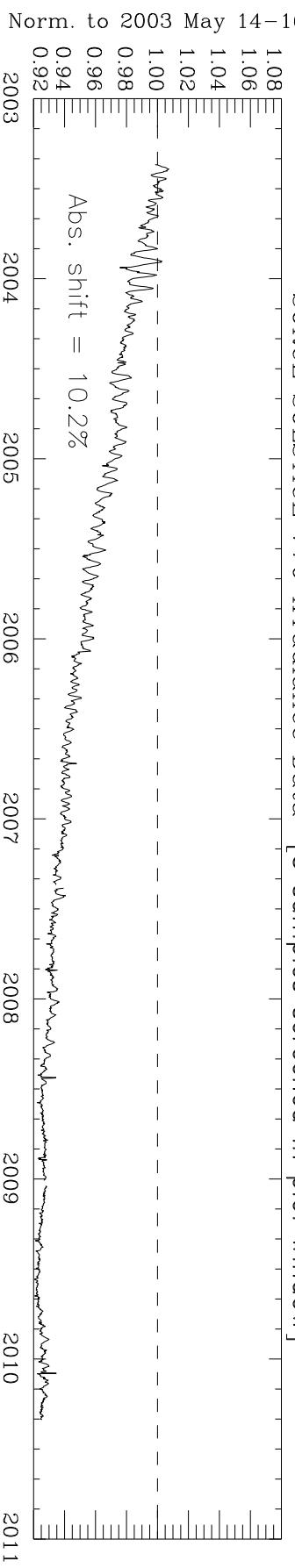


Average scale factor = 0.463

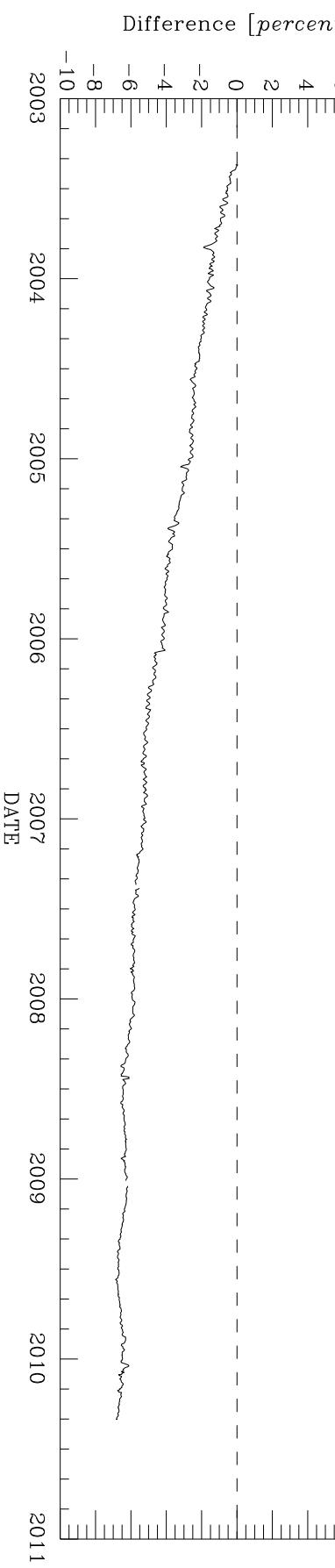
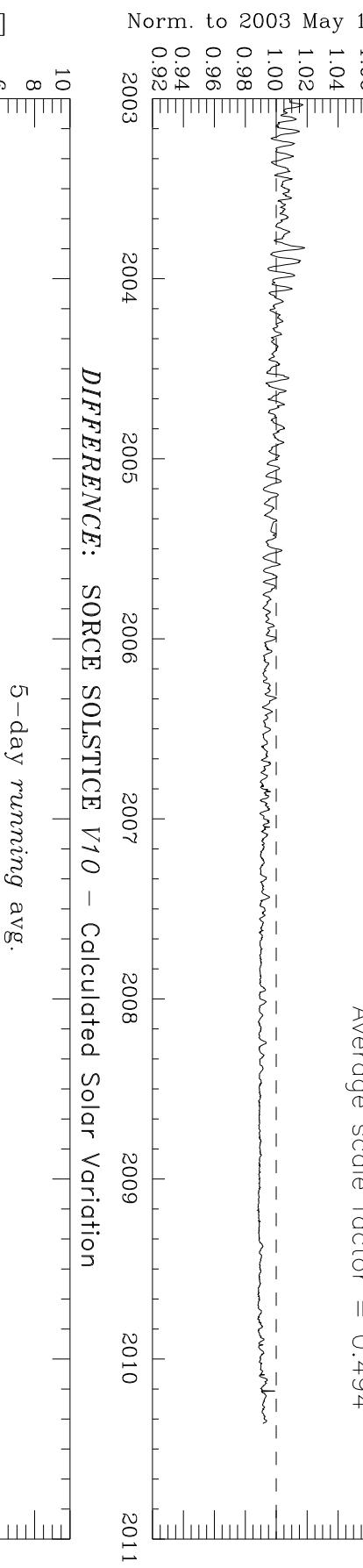


Solar Irradiance Comparison: 235–239 nm

SOURCE SOLSTICE *V10* Irradiance Data [3 samples screened in plot window]

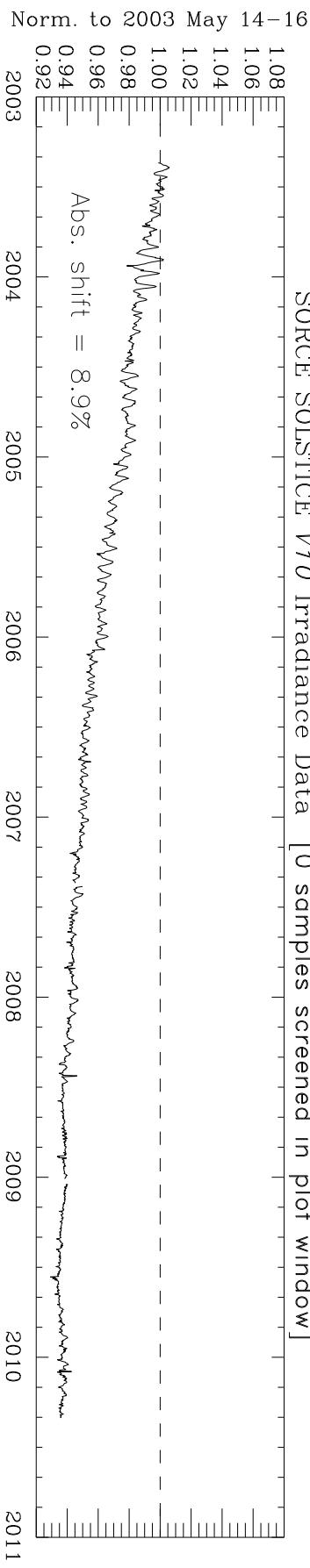


Calculated Irradiance Variation [SET Mg II index + DeLand and Cebula (1993) scale factors]

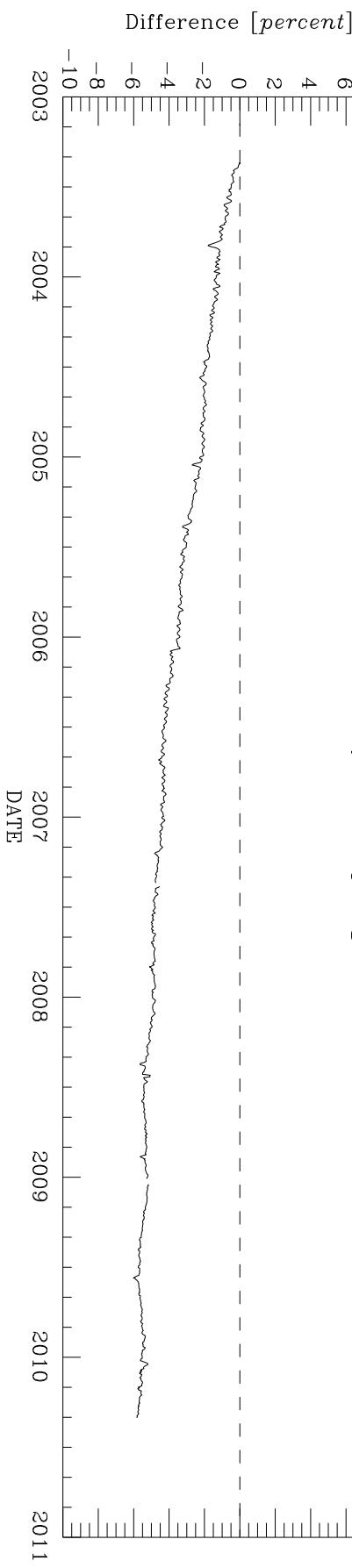
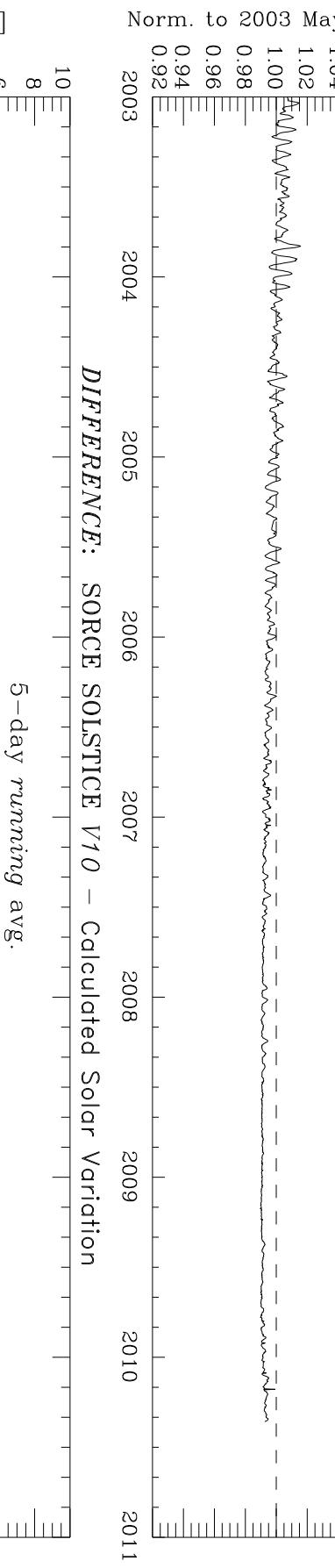


Solar Irradiance Comparison: 240–244 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]

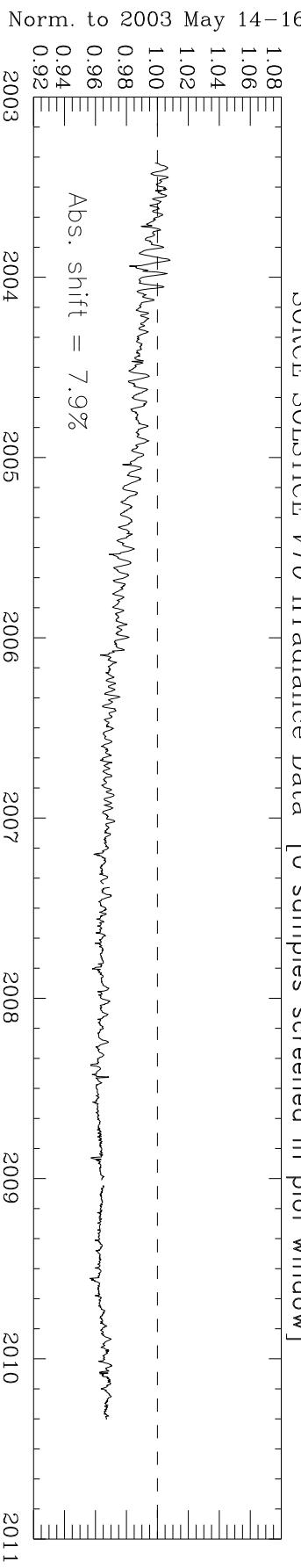


Calculated Irradiance Variation [SET Mg II index + DeLand and Cebula (1993) scale factors]

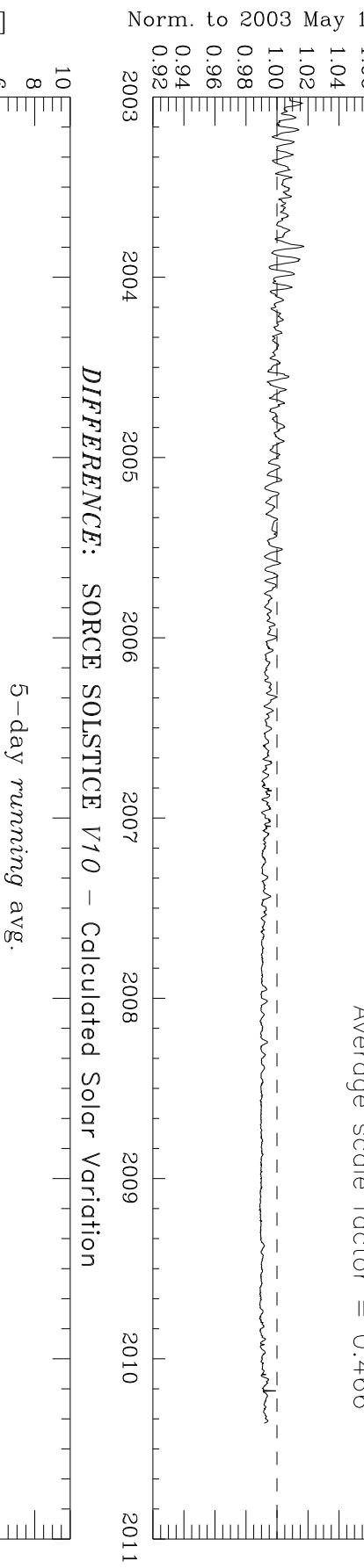


Solar Irradiance Comparison: 245–249 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]

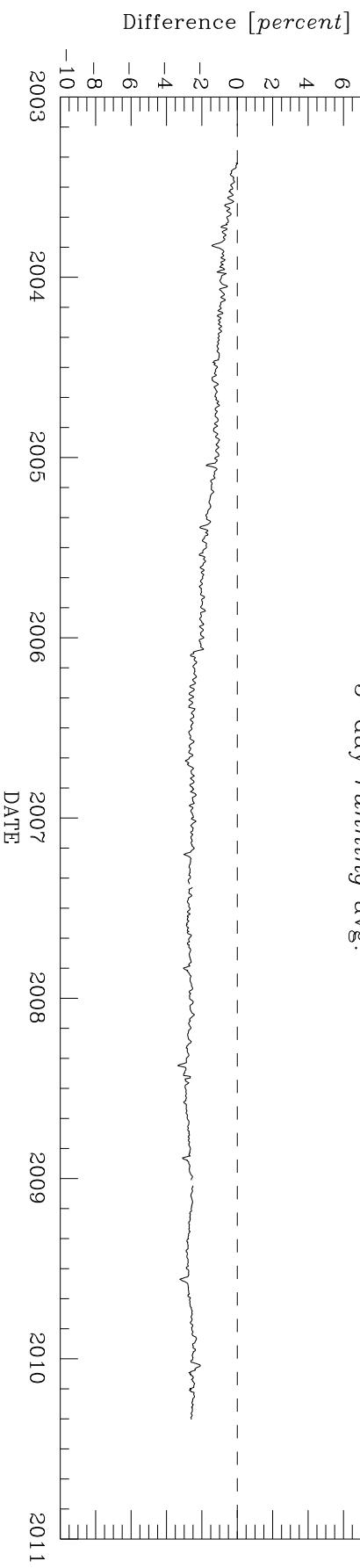


Calculated Irradiance Variation [SET Mg II index + DeLand and Cebula (1993) scale factors]



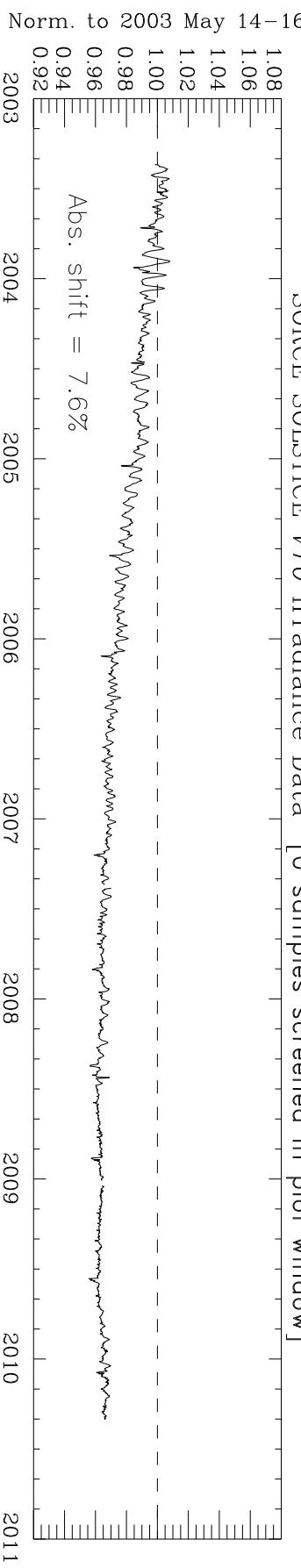
DIFFERENCE: SOURCE SOLSTICE *V10* – Calculated Solar Variation

5-day running avg.

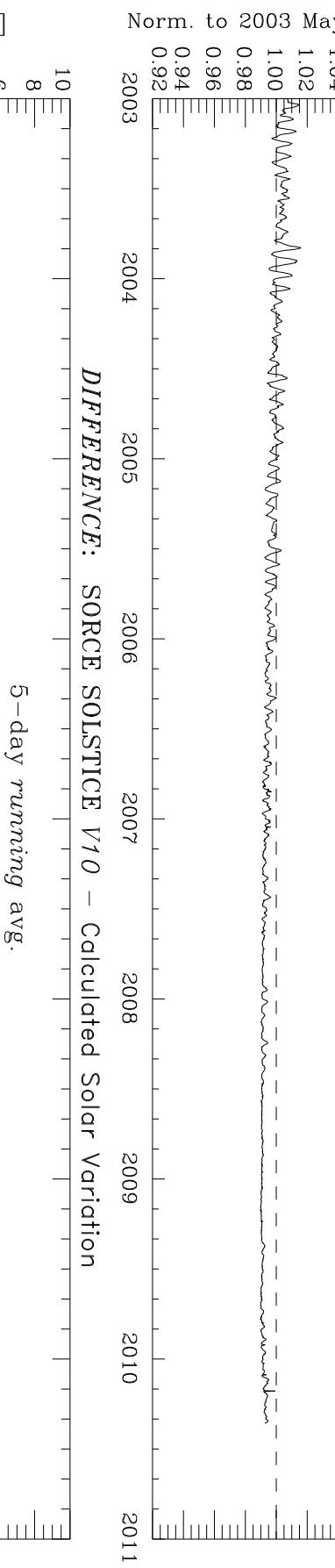


Solar Irradiance Comparison: 250–254 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]



Calculated Irradiance Variation [SET Mg II index + DeLand and Cebula (1993) scale factors]

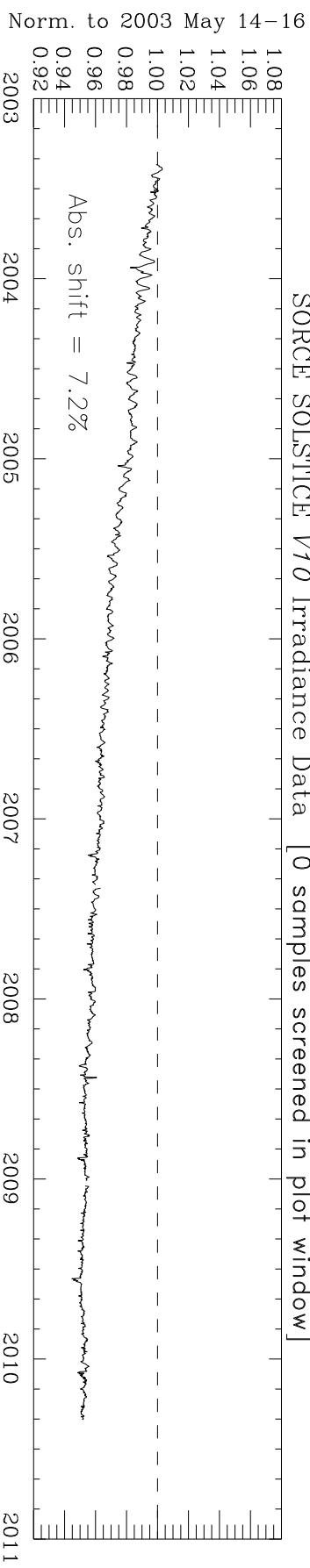


Difference [percent]

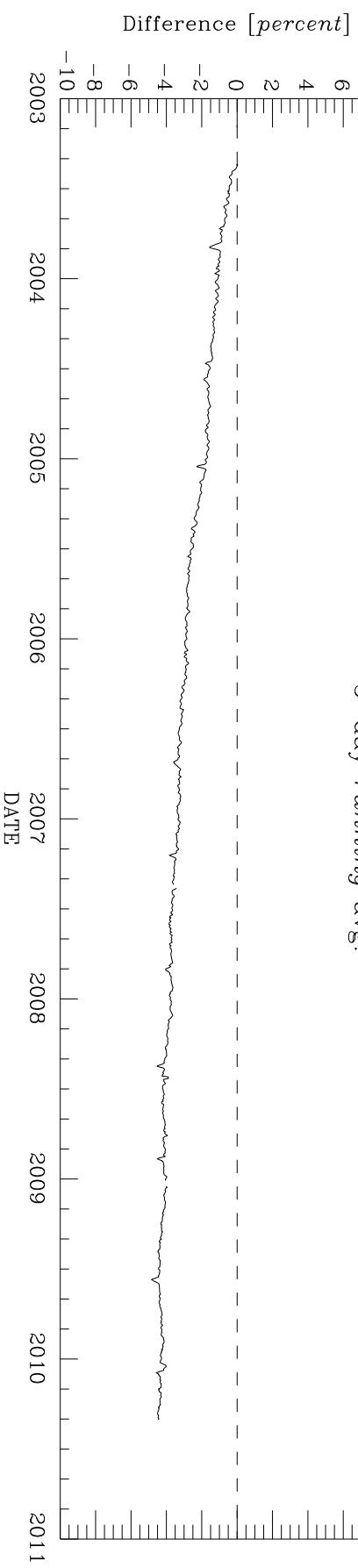
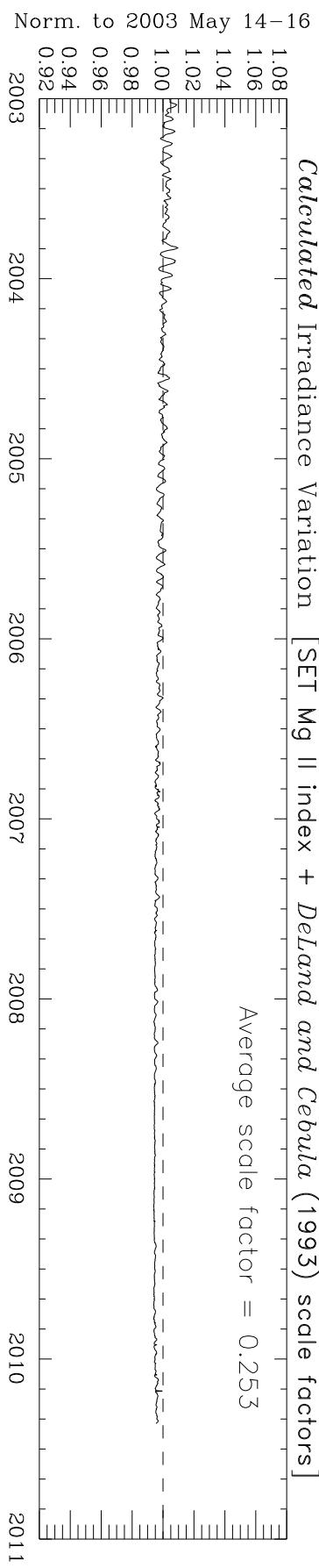
2003 2004 2005 2006 2007 2008 2009 2010 2011

Solar Irradiance Comparison: 255–259 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]

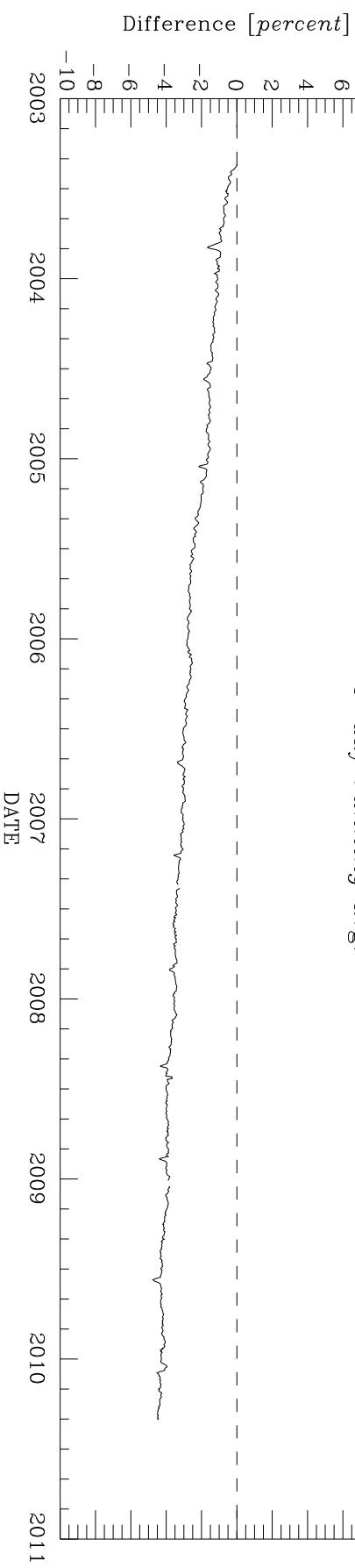
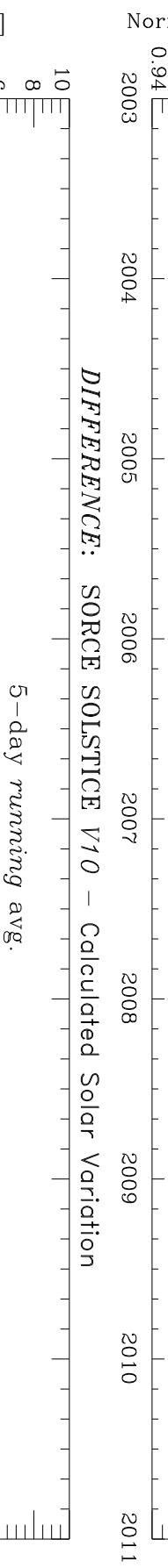
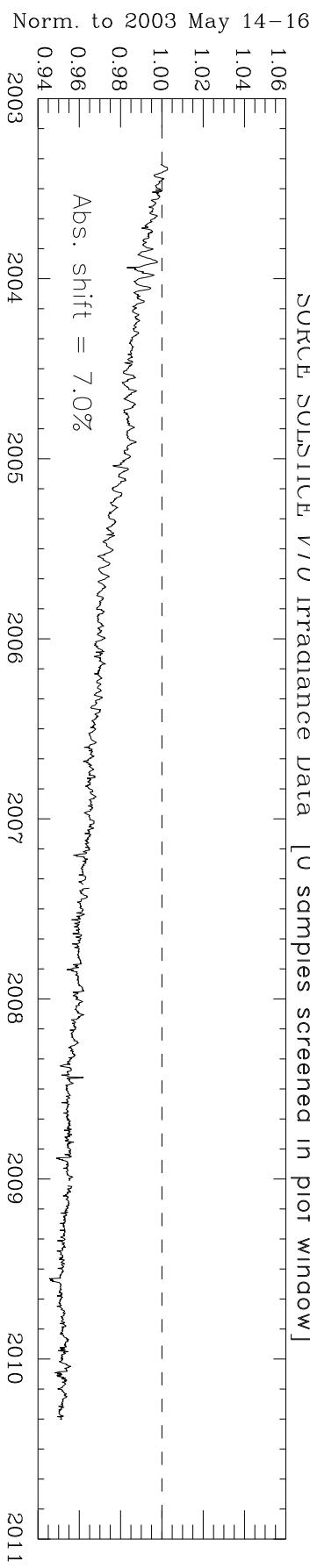


Calculated Irradiance Variation [SET Mg II index + DeLand and Cebulla (1993) scale factors]



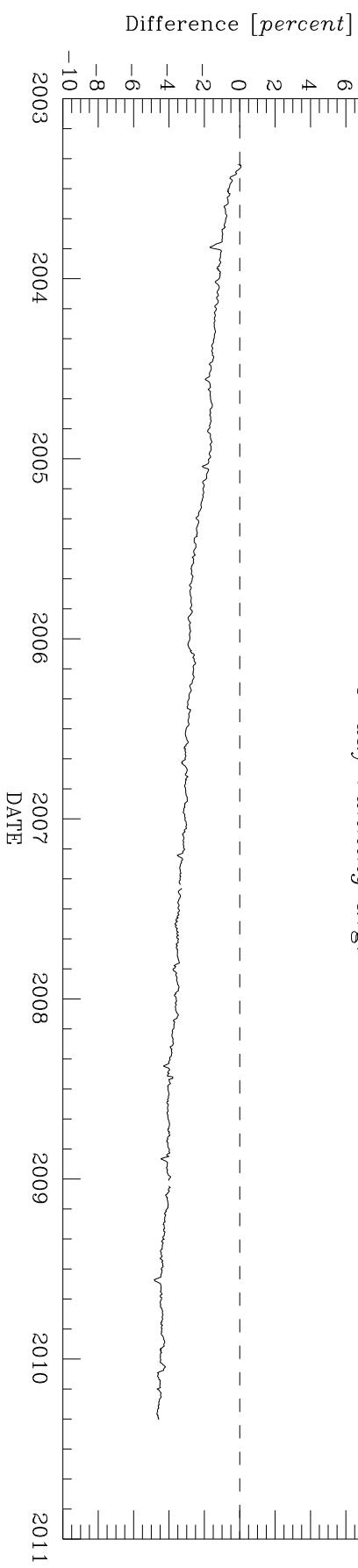
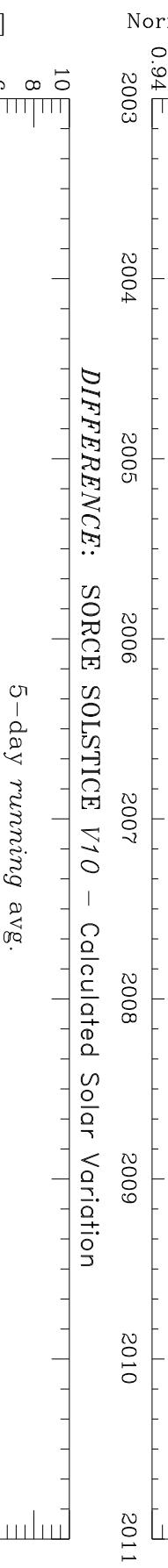
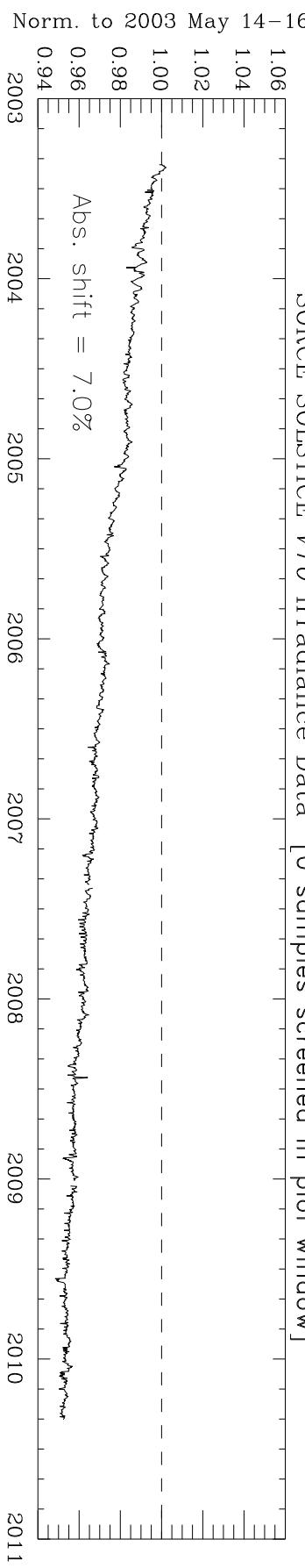
Solar Irradiance Comparison: 260–264 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]



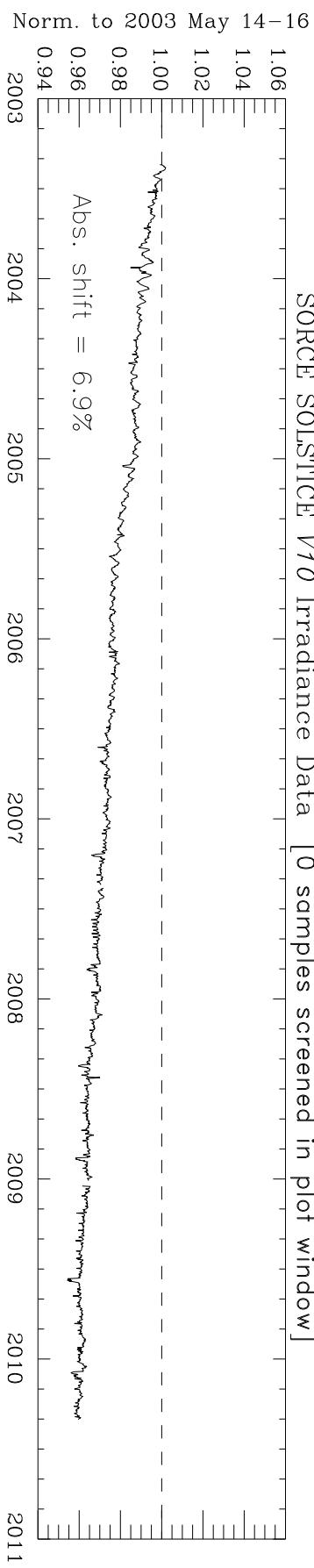
Solar Irradiance Comparison: 265–269 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]

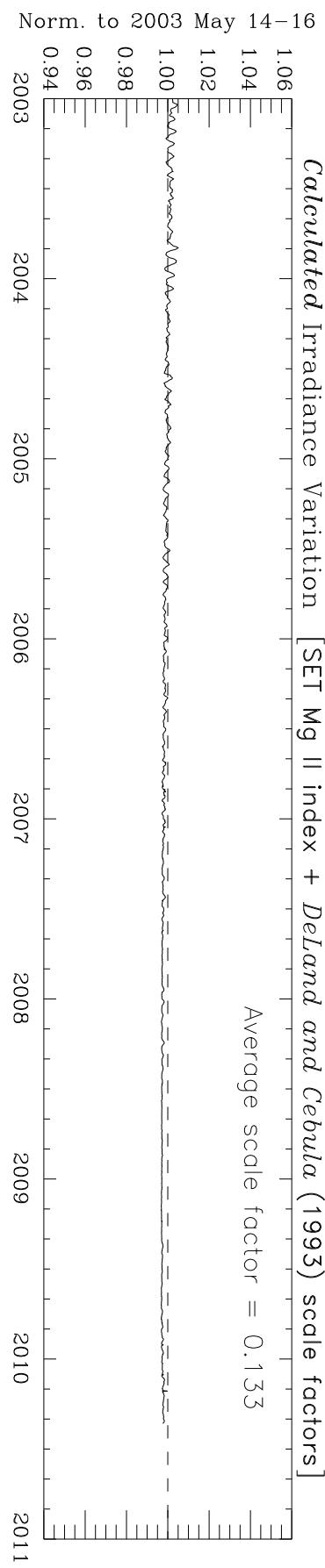


Solar Irradiance Comparison: 270–274 nm

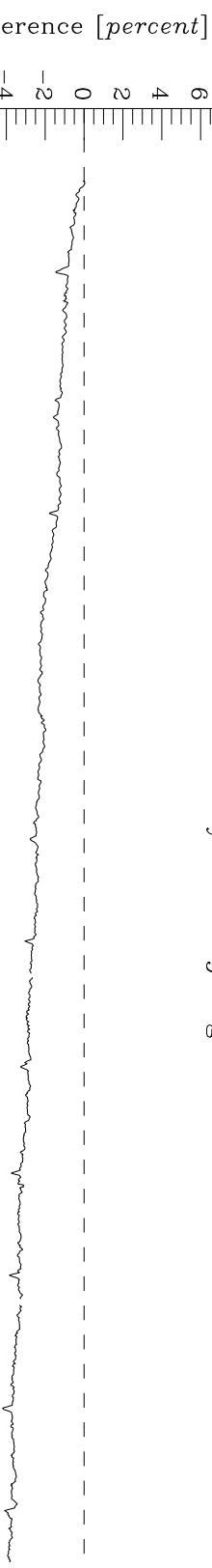
SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]



Average scale factor = 0.133

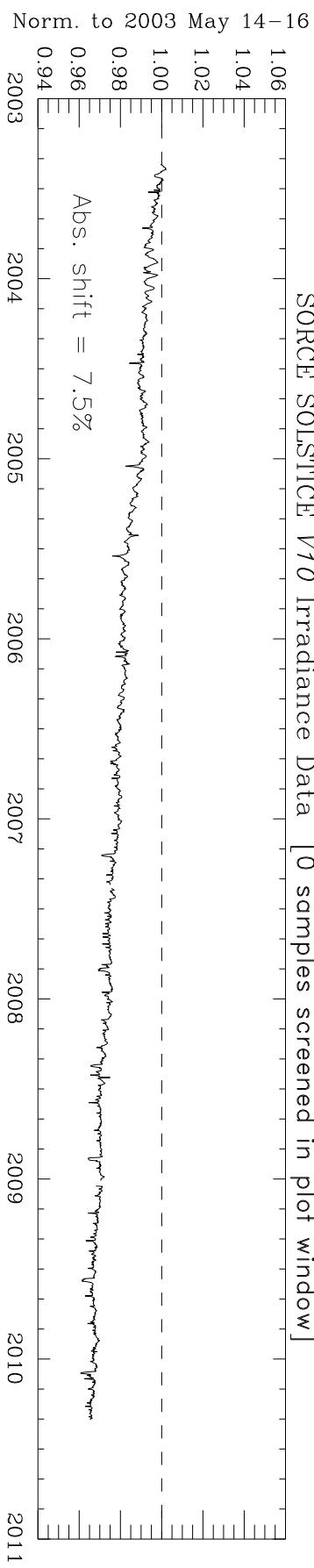


DIFFERENCE: SOURCE SOLSTICE *V10* – Calculated Solar Variation
5-day running avg.

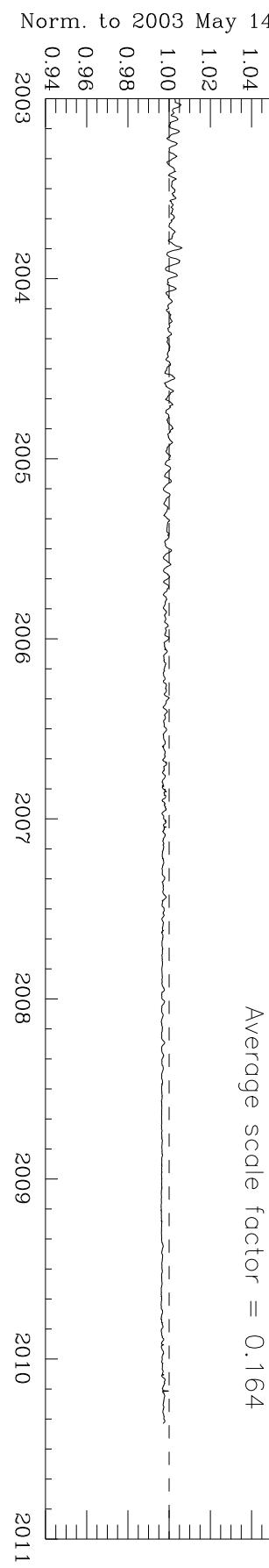


Solar Irradiance Comparison: 275–278 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]

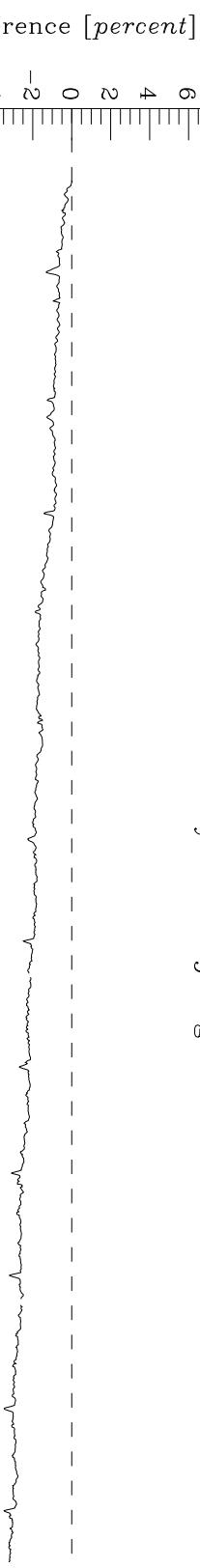


Calculated Irradiance Variation [SET Mg II index + DeLand and Cebula (1993) scale factors]



DIFFERENCE: SOURCE SOLSTICE *V10* – Calculated Solar Variation

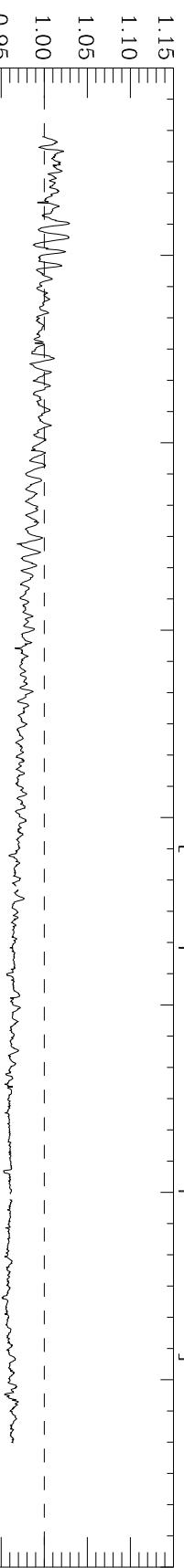
5-day running avg.



Difference [percent]

Solar Irradiance Comparison: 279–280 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]



Norm. to 2003 May 14–16

1.15

1.10

1.05

1.00

0.95

0.90

0.85

0.80

0.75

0.70

0.65

0.60

0.55

0.50

0.45

0.40

0.35

0.30

0.25

0.20

0.15

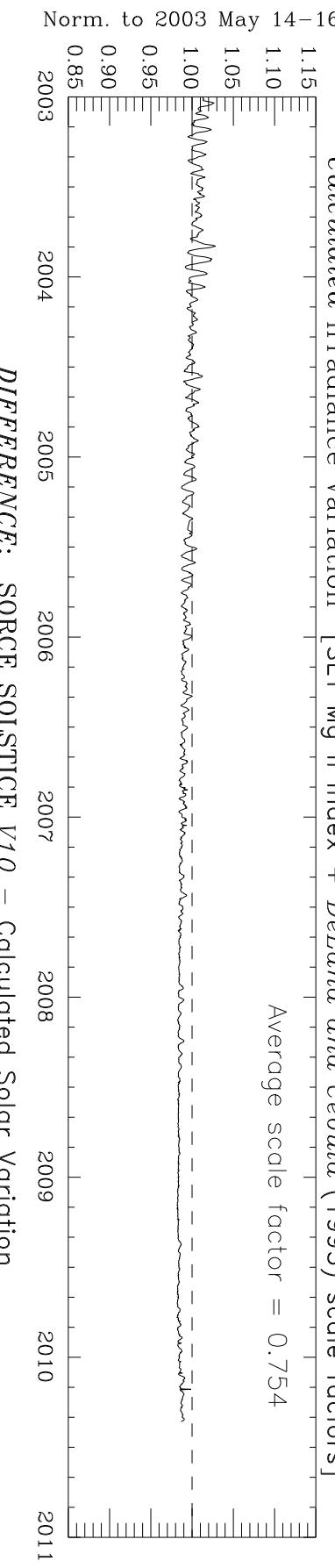
0.10

0.05

0.00

Calculated Irradiance Variation [SET Mg II index + DeLand and Cebula (1993) scale factors]

Average scale factor = 0.754



Norm. to 2003 May 14–16

1.15

1.10

1.05

1.00

0.95

0.90

0.85

0.80

0.75

0.70

0.65

0.60

0.55

0.50

0.45

0.40

0.35

0.30

0.25

0.20

0.15

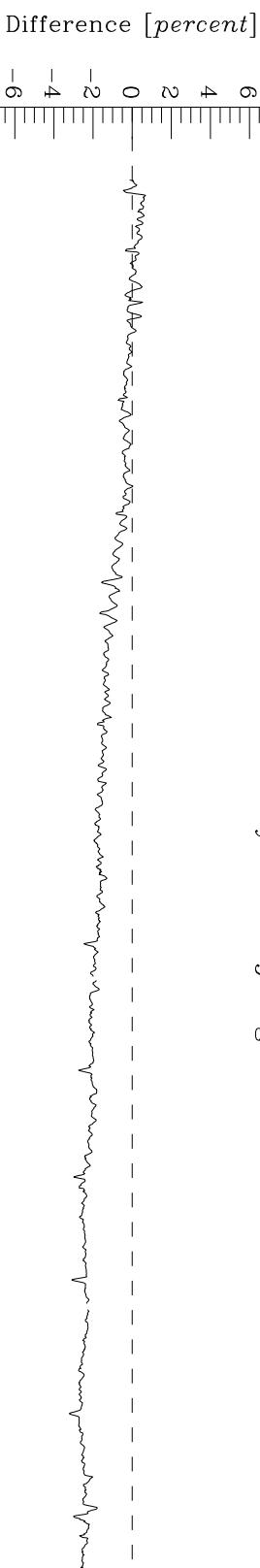
0.10

0.05

0.00

DIFFERENCE: SOURCE SOLSTICE *V10* – Calculated Solar Variation

5-day running avg.



Difference [percent]

10

8

6

4

2

0

-2

-4

-6

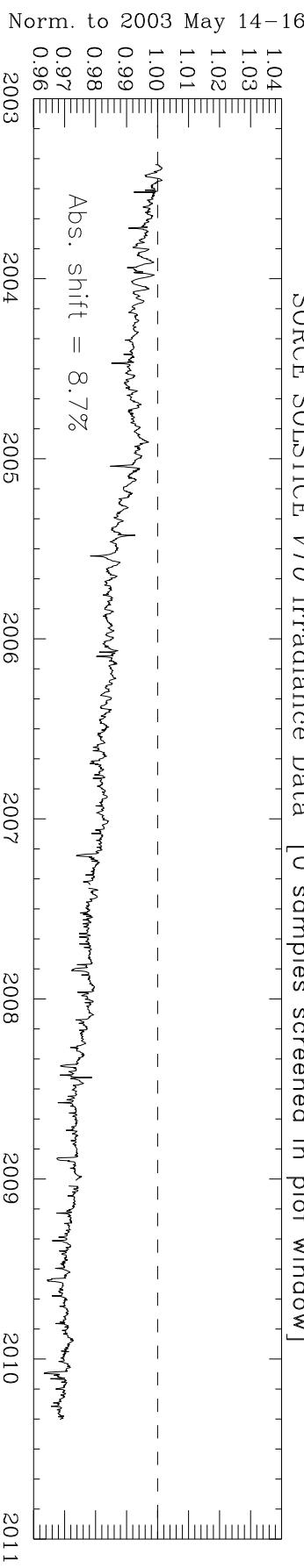
-8

-10

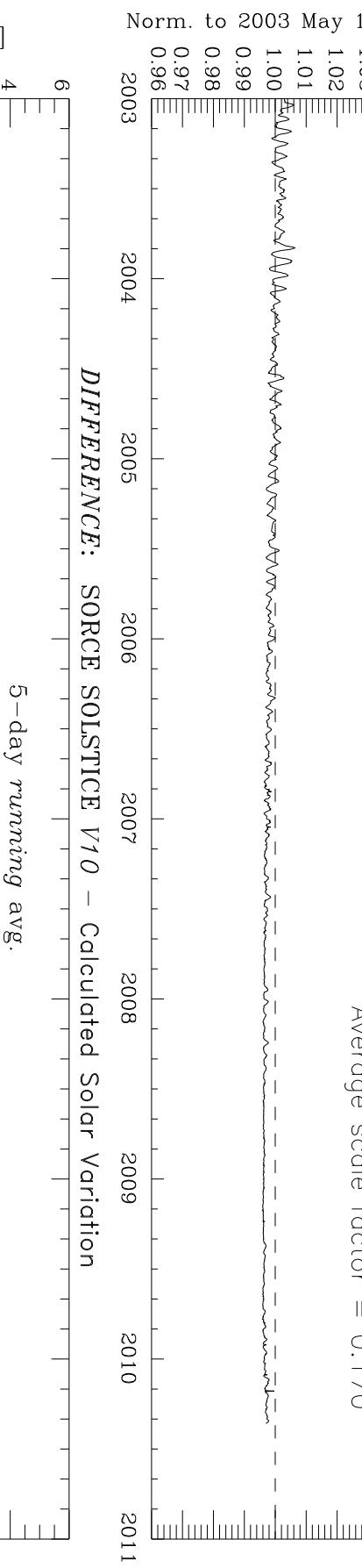
2003 2004 2005 2006 2007 2008 2009 2010 2011

Solar Irradiance Comparison: 281–284 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]

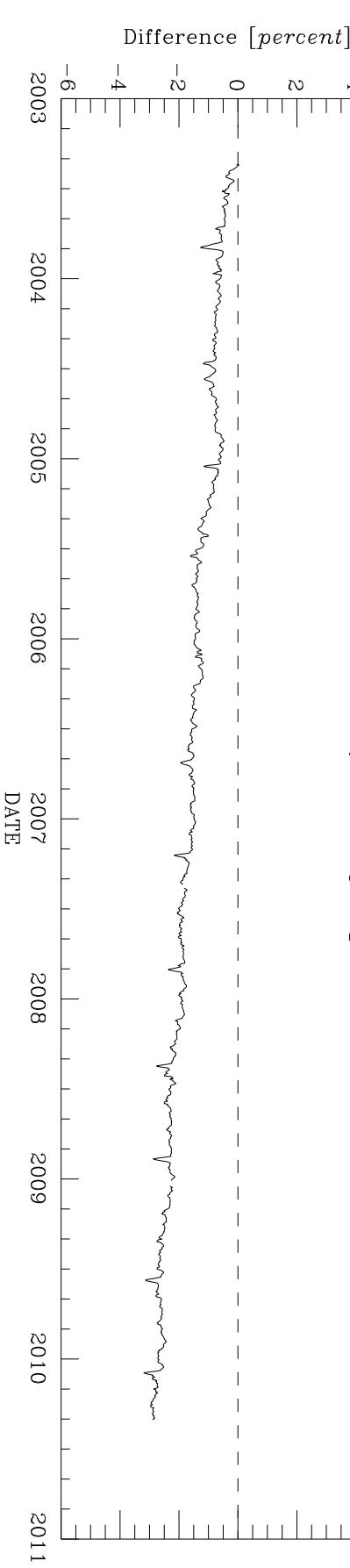


Calculated Irradiance Variation [SET Mg II index + DeLand and Cebula (1993) scale factors]



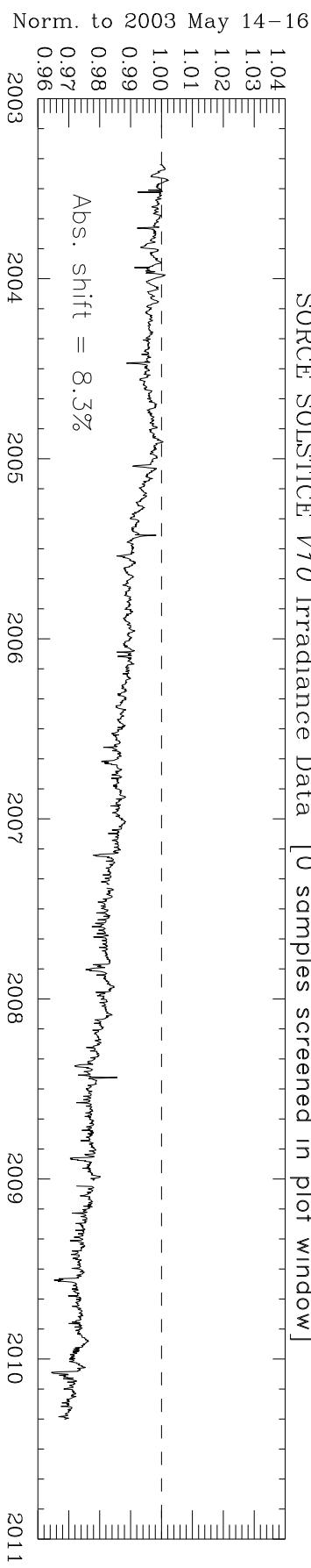
DIFFERENCE: SOURCE SOLSTICE *V10* – Calculated Solar Variation

5-day running avg.

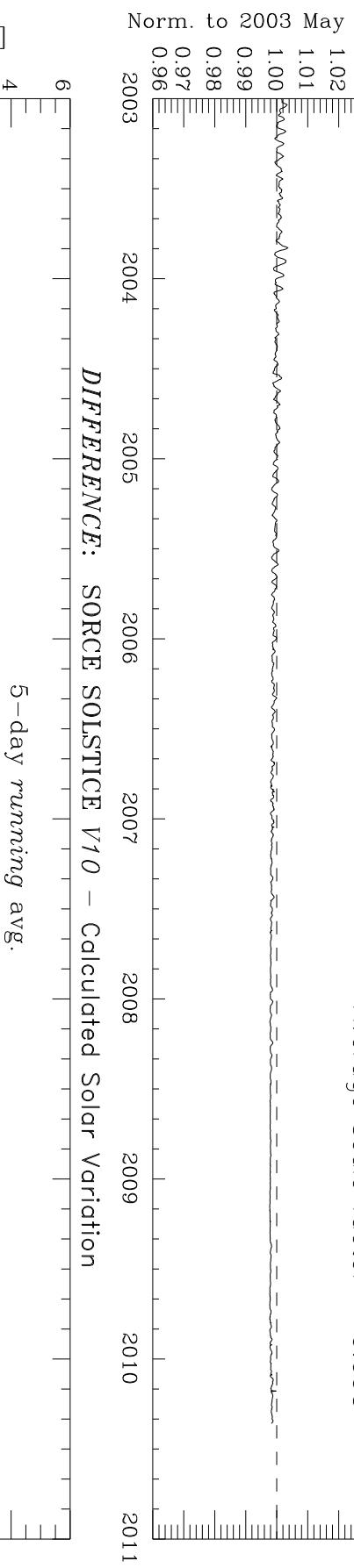


Solar Irradiance Comparison: 285–289 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]

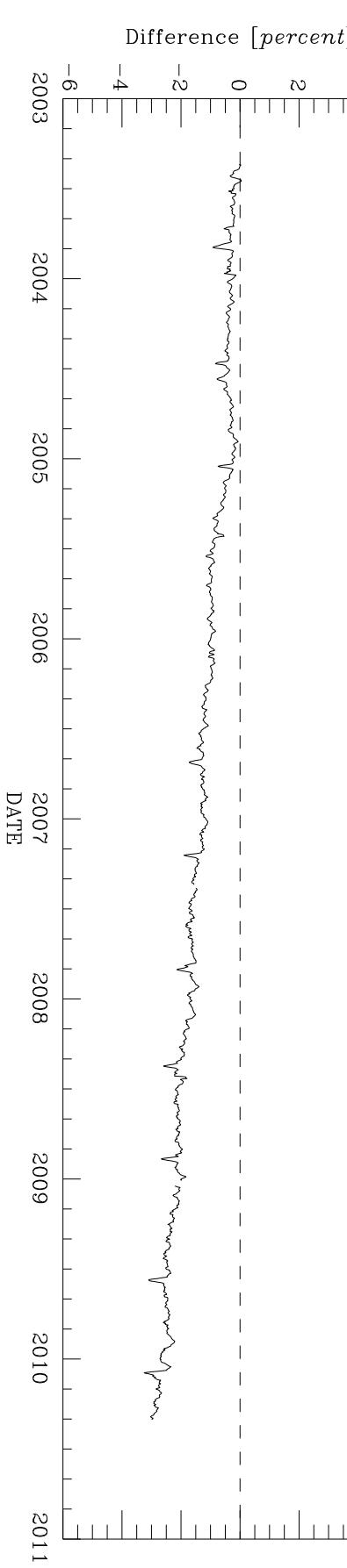


Calculated Irradiance Variation [SET Mg II index + DeLand and Cebula (1993) scale factors]



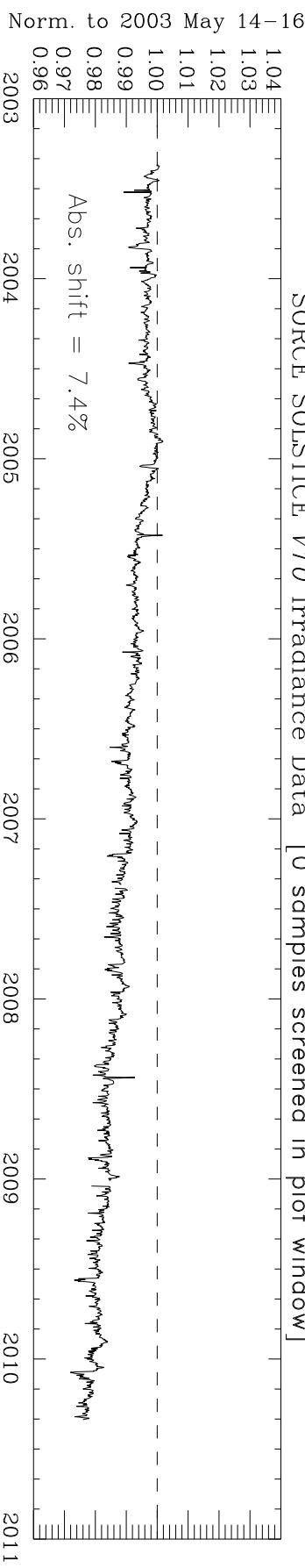
DIFFERENCE: SOURCE SOLSTICE *V10* – Calculated Solar Variation

5-day running avg.

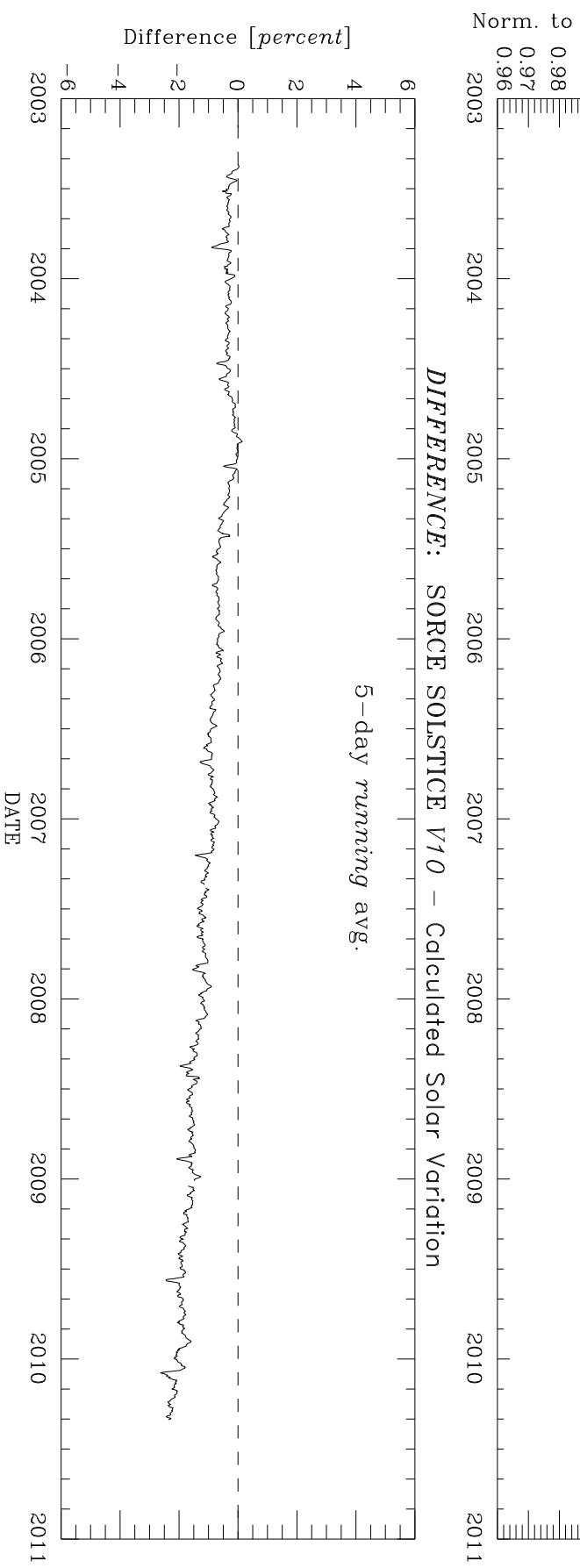


Solar Irradiance Comparison: 290–294 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]



Calculated Irradiance Variation [SET Mg II index + DeLand and Cebula (1993) scale factors]
Average scale factor = 0.023



Solar Irradiance Comparison: 295–299 nm

SOURCE SOLSTICE *V10* Irradiance Data [0 samples screened in plot window]

