
Subject: Re: Conversion Factor

Posted by [Paul Van Delst\[1\]](#) on Wed, 05 Dec 2007 21:42:28 GMT

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Marshad2@gmu.edu wrote:

> Hi Guys:

>

> I have the following scale factors for 50 bands.

>

> "scale_factor"

> 0.10000000, 0.10000000, 0.10000000, 0.10000000, 0.10000000,

> 0.10000000,

> 0.10000000, 0.10000000, 0.10000000, 0.10000000, 0.01000000,

> 0.01000000,

> 0.01000000, 0.01000000, 0.01000000, 0.10000000, 0.01000000,

> 0.01000000,

> 0.01000000, 0.01000000, 0.01000000, 0.01000000, 0.01000000,

> 0.01000000,

> 0.01000000, 1.00000000, 0.00500000, 0.00600000, 0.00600000,

> 0.00600000,

> 0.00600000, 0.00600000, 0.00500000, 0.00100000, 0.00300000,

> 0.00600000,

> 0.00500000, 0.00500000, 0.00200000, 0.00100000, 0.00100000,

> 0.01000000,

> 0.01000000, 0.01000000, 0.01000000, 0.01000000, 0.01000000,

> 0.01000000,

> 0.01000000, 0.01000000

>

> FLAASH atmospheric correction software requires radiance to be in

> microwatts/centimeter²/steradian/nanometer. Whereas, I have the

> radiance in watts/meter²/steradian/micron. What shall I do?

Umm... convert the values to the required units?

micro == 10⁻⁶

centi == 10⁻²

nano == 10⁻⁹

and

micron == micrometer.

Add the exponents accordingly (don't forget the ^2 bits!) and multiply.

cheers,

paulv
