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Comment from Watts, Gordon

Posted by the **National Oceanic and Atmospheric Administration** on Jul 4, 2024[Docket \(/docket/NOAA-NWS-2024-0069\)](/docket/NOAA-NWS-2024-0069)[/ Document \(NOAA-NWS-2024-0069-0002\) \(/document/NOAA-NWS-2024-0069-0002\)](/document/NOAA-NWS-2024-0069-0002) / [Comment](#)

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BRIEF ADDENDUM: Earlier, I submitted a comment in which (like many others), I felt that the lower end of the existing scales should be left alone (so that historical data would be comparable), but (like a few others), I suggested adding an extra level and going up to S6, G6, and R6, and adding Y-class and Z-class solar flares because a small G5 with an X1 flares looks just as "scary" as, say, a VERY BIG G5 storm with an X19 flare, but really isn't. Thus, while leaving the scales intact, we can have a G6 with a Y9 flare, which would show this really MIGHT be Carr in size. Plus, I suggested adding Dst in nanoTesla to show how much the geomagnetic field is crunched, and including a sixth (6th) scale: Showing both polarity of CME with respect to Earth's magnetic field and angle of incidence (straight on perpendicular, parallel, or in-between). How, in reading another comment, I overlooked the 2 most important scales not listed or included: Both the LOCATION (latitude and longitude) of earth's geomagnetic north and south poles as well as the overall strength (in nanoTesla) of the earth's dipole equivalent geomagnetic field strength, that is, how much nT of "protection" earth's "protective" geomagnetic field offers us against solar events, cosmic radiation, CME's, etc. We need both real-time and historical data on these 2 fronts, which would help me update the linear regression graph on my popular paper (see attached or, if it's published, my prior comment). So, in short, here's the current scales protocol:

G1-5

S1-5

R1-5

Flares: A, B, C, M, and X only, no more.

HERE'S WHAT I PROPOSE:

** G1 -- G6

** S1 -- S6

** R1 -- R6

** Flares: A, B, C, M, X, Y, and Z-class, with each class being ten (10×) times larger than the previous class.

IMPORTANT: This not only stops you from needing to keep adding numbers to X-class, say, X19 or so, but, like

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another comment, I'd like maybe decimal points, so, you can have a Y4.3 solar flare, which, under the current system, would be either and X14, or with precise precision, and X14.3 flare. But adding Y and Z as well as allowing decimal points, makes it easier to understand, more PRECISE, and yet doesn't do away with prior historical data, except to rename the X19 to a Y9, etc.

** Dst in nanoTesla units.

** Polarity and angular orientation relationships, both.

But, besides those six, I'd prefer and like to see NWS add both total geomagnetic field strength in nanoTesla AS WELL AS PRECISE and exacting locations in Long and Lat of earth's magnetic north and south poles, which can help us track their movement, and more accurately predicted a pole flip and field collapse, which my last research showed to be about 430 years from now, plus or minus.

That makes eight (8) scales.

My apologies for overlooking these last 2 scales lady time, and I hope you allow me this second (2nd) comment to correct my oversight here. I don't need a 3rd one, I trust. Thank you.

Reminder, please see both attachments here.

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Attachments 2



5_SolarFlarePaper_GordonWayneWatts_PDF



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