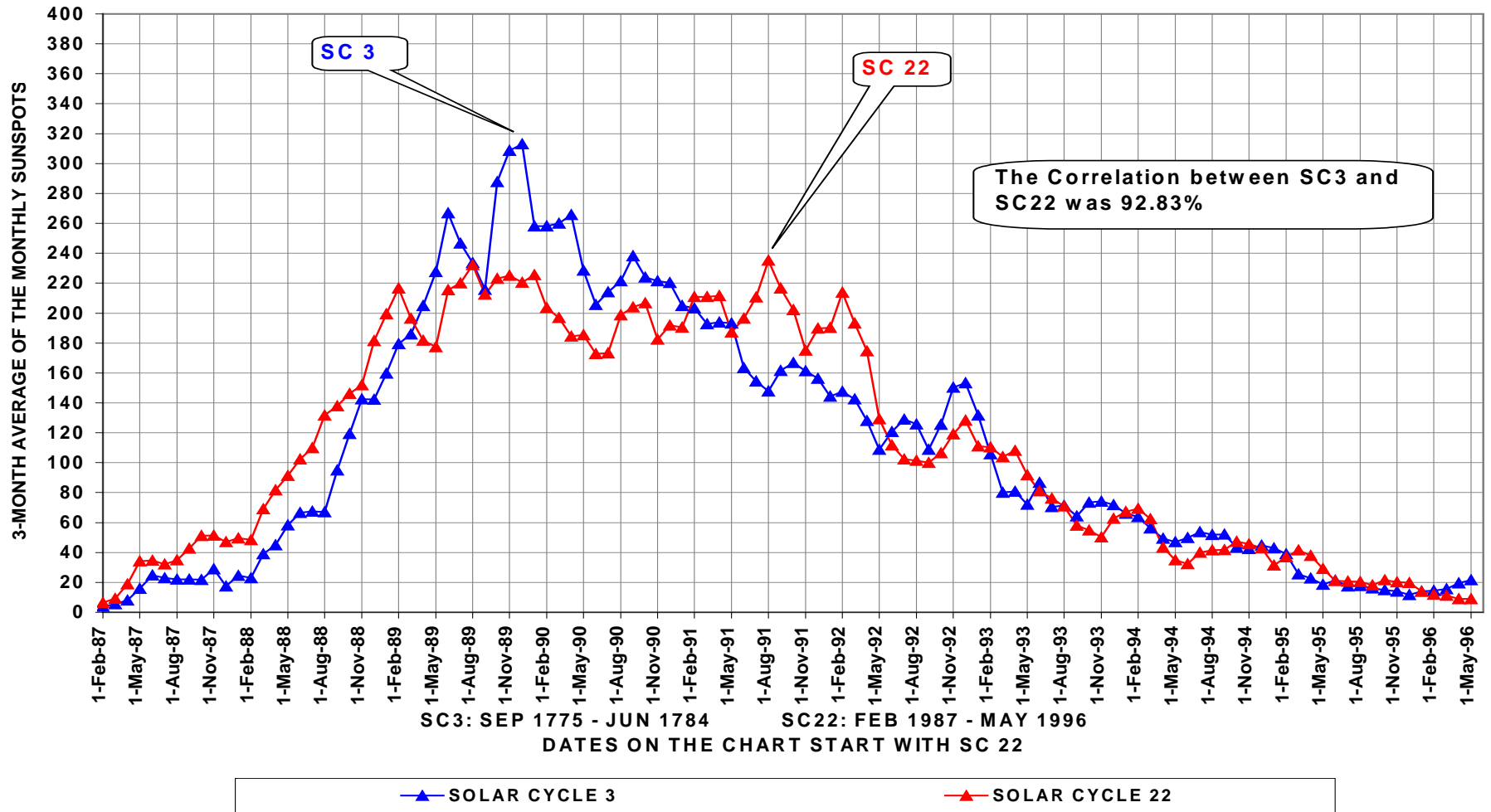


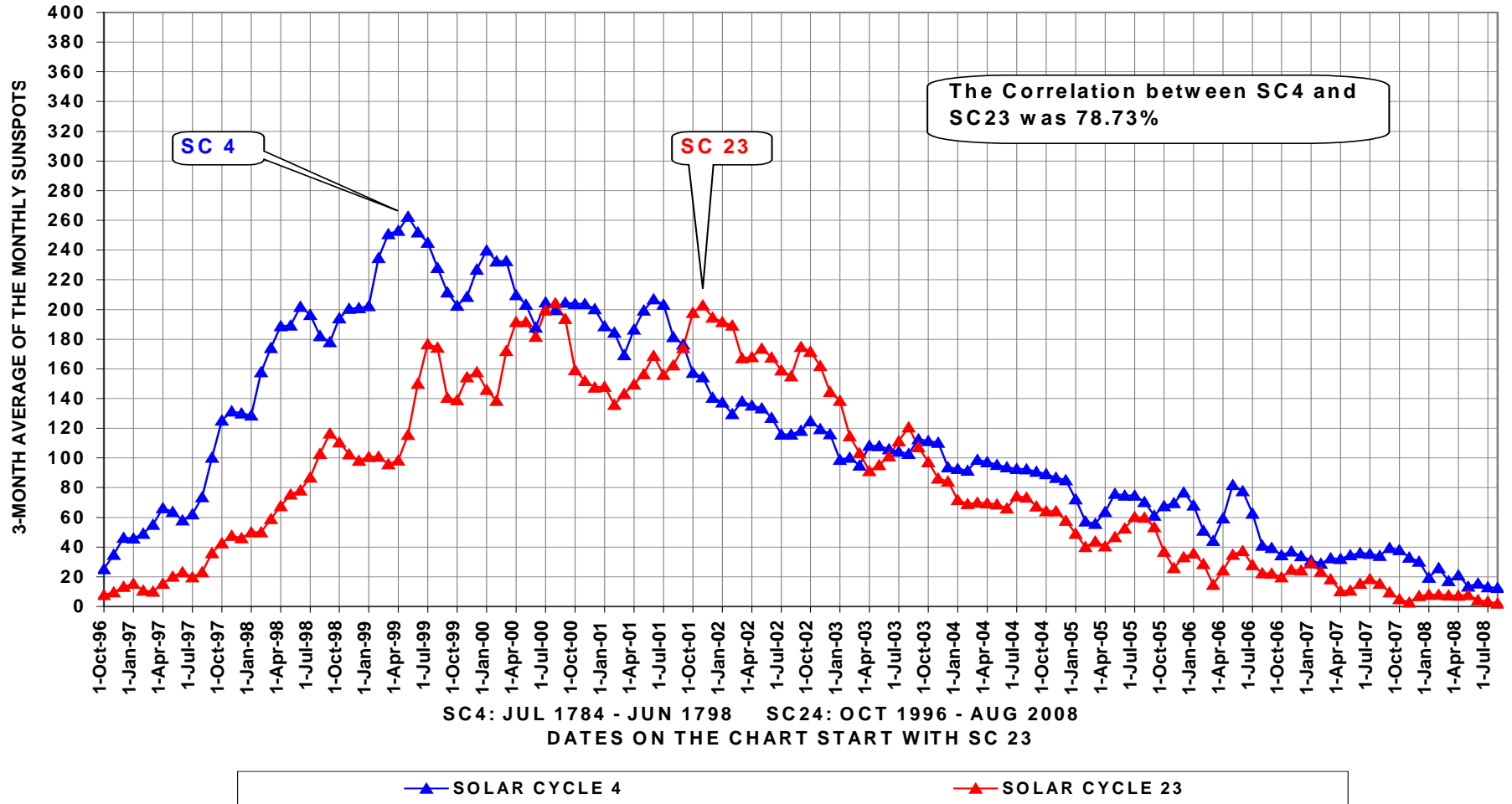
C&S GRAIN MARKET CONSULTING  
SUNSPOT 3-MONTH AVERAGE FOR SC 3 VERSUS SC 22



**Comments:**

The chart above compares the 3-month moving average of the Monthly International Sunspots for SC3 versus SC22. SC3 occurred between September 1775 and June 1784 while SC22 occurred between February 1987 and May 1996. The Correlation of the 3-month moving average of the Monthly International Sunspots for SC3 versus SC22 was 92.83%. Comparing SC3 through SC6 with SC22 though SC25 is providing us with a very good comparison of what happened during the last Dalton Minimum **COLD** Era with what might be similar to a new Dalton Minimum Type Era that could end with very **COLD** temperatures during SC26. Notice that the 3-month moving average in SC3 peaked at 313.07 Sunspots while SC22 peaked at 235.20 Sunspots.

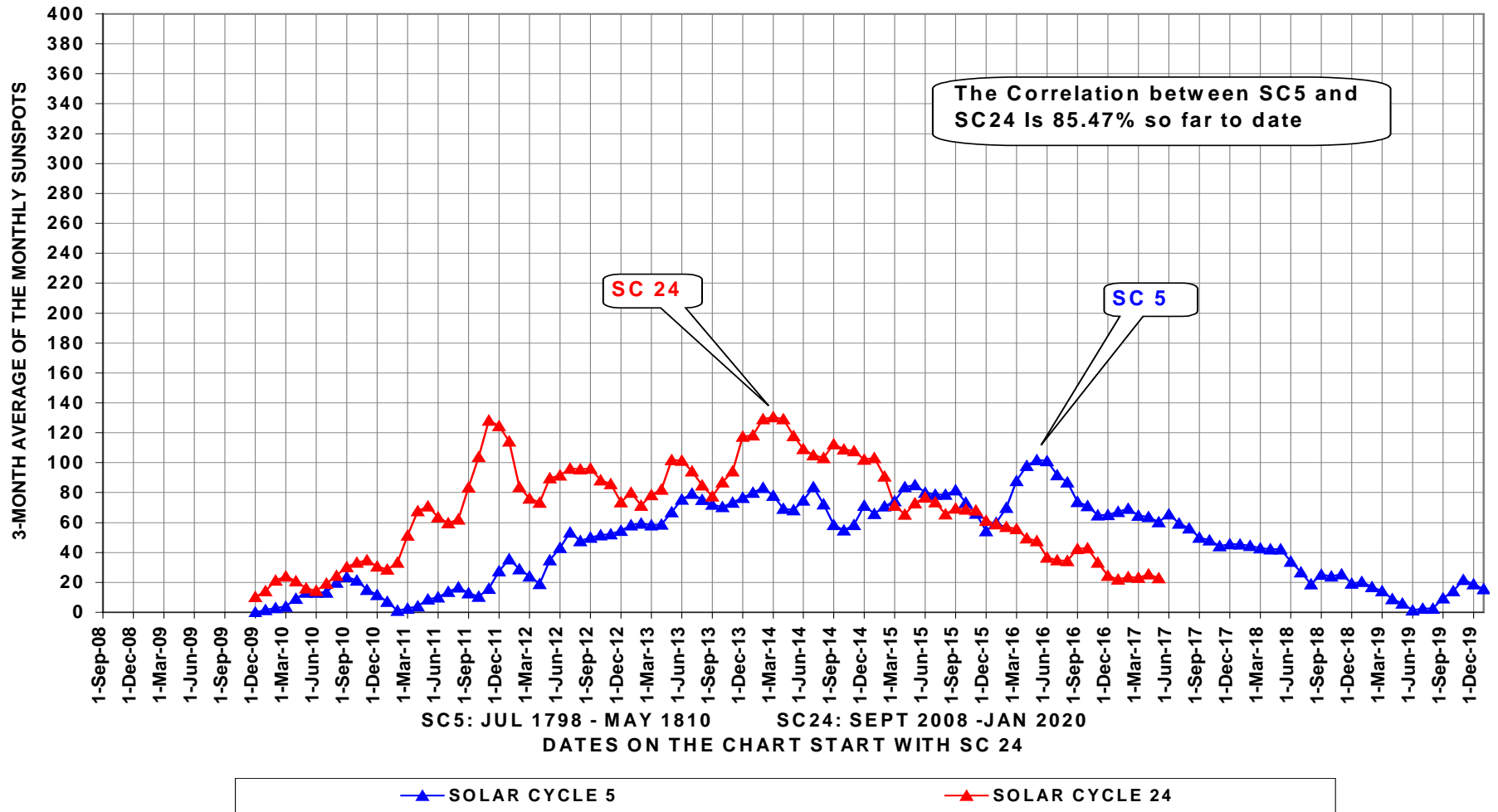
C&S GRAIN MARKET CONSULTING  
 SUNSPOT 3-MONTH AVERAGE FOR SC 4 VERSUS SC 23



**Comments:**

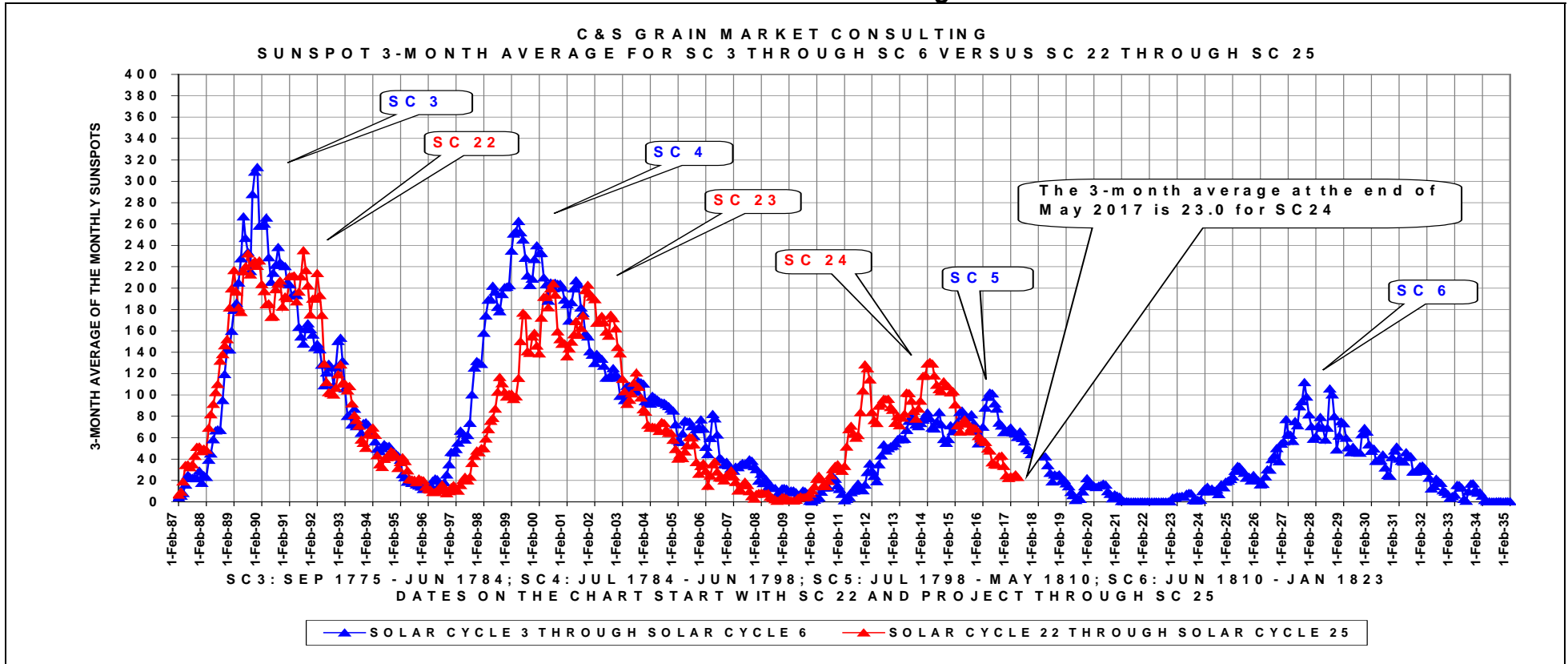
The chart above compares the 3-month moving average of the Monthly International Sunspots for SC4 versus SC23. SC4 occurred between July 1784 and June 1798 while SC23 occurred between October 1996 and August 2008. The Correlation of the 3-month moving average of the Monthly International Sunspots for SC4 versus SC23 was 78.73%. Comparing SC3 through SC6 with SC22 though SC25 is providing us with a very good comparison of what happened during the last Dalton Minimum **COLD** Era with what might be similar to a new Dalton Minimum Type Era that could end with very **COLD** temperatures during SC26. Notice that the 3-month moving average in SC4 peaked at 262.50 Sunspots while SC23 peaked at 204.3 Sunspots.

C&S GRAIN MARKET CONSULTING  
 SUNSPOT 3-MONTH AVERAGE FOR SC 5 VERSUS SC 24



**Comments:**

The chart above compares the 3-month moving average of the Monthly International Sunspots for SC5 versus SC24. SC5 occurred between July 1798 and May 1810 while SC24 began in September 2008 and is expected to end around January 2020. The Correlation of the 3-month moving average of the Monthly International Sunspots for SC5 versus SC24 has been 85.47% so far to date. Comparing SC3 through SC6 with SC22 though SC25 is providing us with a very good comparison of what happened during the last Dalton Minimum **COLD** Era with what might be similar to a new Dalton Minimum Type **COLD** Era that could end with very **COLD** temperatures during SC26. Notice that the 3-month moving average in SC5 peaked at 101.83 Sunspots while SC24 has peaked at 130.6 Sunspots.



**Comments:**

The chart above shows a 3-month moving average of the Monthly International Sunspots since 1749. The Sunspot Cycles have ranged from 106 to 168 months and have averaged 133 months. The size and amount of Earthquake and Volcano activity occurring in the world, along with the weakness of Solar Magnetic Energy being released by the Sun as SC24 and SC25 reach their minimums, will likely negatively impact world temperatures towards being **COLDER!** It's possible for another **COLD** Era to form that might be similar to the Dalton Minimum **COLD** Era that occurred between SC3 and SC6. If that occurs, it will stress the Northern Hemispheres Crop Production Potential. Notice how each progressive series of Solar Cycle comparisons, SC3-SC22, SC4-SC23, and SC5-SC24 have been and are showing declining Sunspots.

The overall Correlation of the 3-month moving average of the Monthly International Sunspots for SC3-SC5 versus SC22-SC24 has been **82.03%** so far to date.

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 The historical information herein provided is derived from multiple public data sources and is believed to be accurate but cannot be guaranteed. Providing this information does not include an expressed or implied recommendation for making any trades or other financial decisions. There is risk of loss in trading futures. Any gain or loss resulting from the use of this information is entirely the responsibility of the user. Opinions expressed may change at any time. **Past performance of actual trades or strategies cited herein is not necessarily indicative of future performance.**

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“Stewardship in Marketing: Fighting Fear and Greed by using knowledge of the past, an awareness of the present, and planning for the future.”