

A Quick Thought on Coin Shrinking

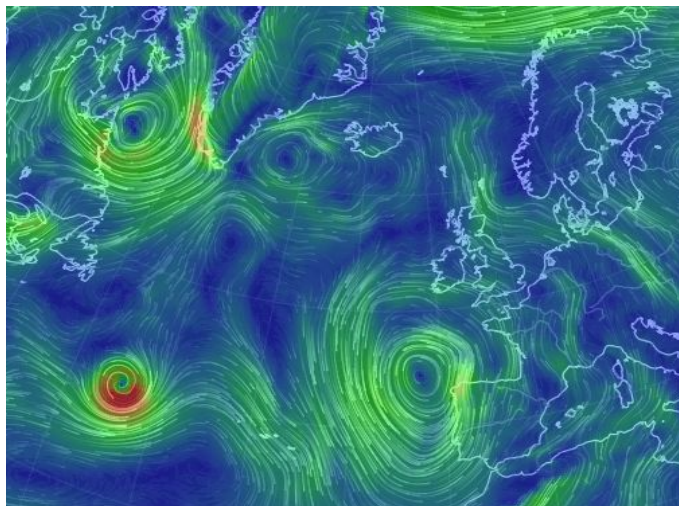
Ben Davidson - June 24, 2015



Image: <http://www.capturedlightning.com/frames/gallery/coins5.jpg>

This is a shrunken coin from Bert Hickman's website, <http://capturedlightning.com> - and although he forbids the reproduction of his images (even with credit and linking) the fair use provisions of US law allow its use here.

I am not sure if Bert has any clue what he is demonstrating here, but his incredible artwork (the captured lightning sculptures are even cooler) demonstrates a number of



points about earthspots, sunspots, and much more. The first thing we notice is the smaller size of the coin on the right but then you quickly notice the penumbral lines pointing inward, just like we see around the sunspot umbra and the earthspot storm.

In this image from earth.nullschool.net, we see two low pressure cells in the north Atlantic

ocean in September of 2014. The storm with the red bottom arch is a post-tropical hurricane and the low at the coast of Europe is a much-weaker system bringing minor thunderstorms and rain. Notice how much larger the wind rings of the weaker storm are than those of the hurricane.

This is a point that we have not discussed much as of this time - the size of the earthspots and what that can tell us about sunspots and the fields involving them both. To squeeze the quarter, a powerful electromagnetic force is applied, and the stronger the force the smaller the quarter will be. On earth, the hurricanes are always smaller than weaker low pressure cells. Some thoughts going forward- what does this mean for the earthspot fields? - what can this tell us about the umbral magnetic fields of sunspots? -what does this mean for a solar flare or terrestrial gamma flash in terms of how it affects the size, shape, and amgnetic character of the sunspots/earthspot?

