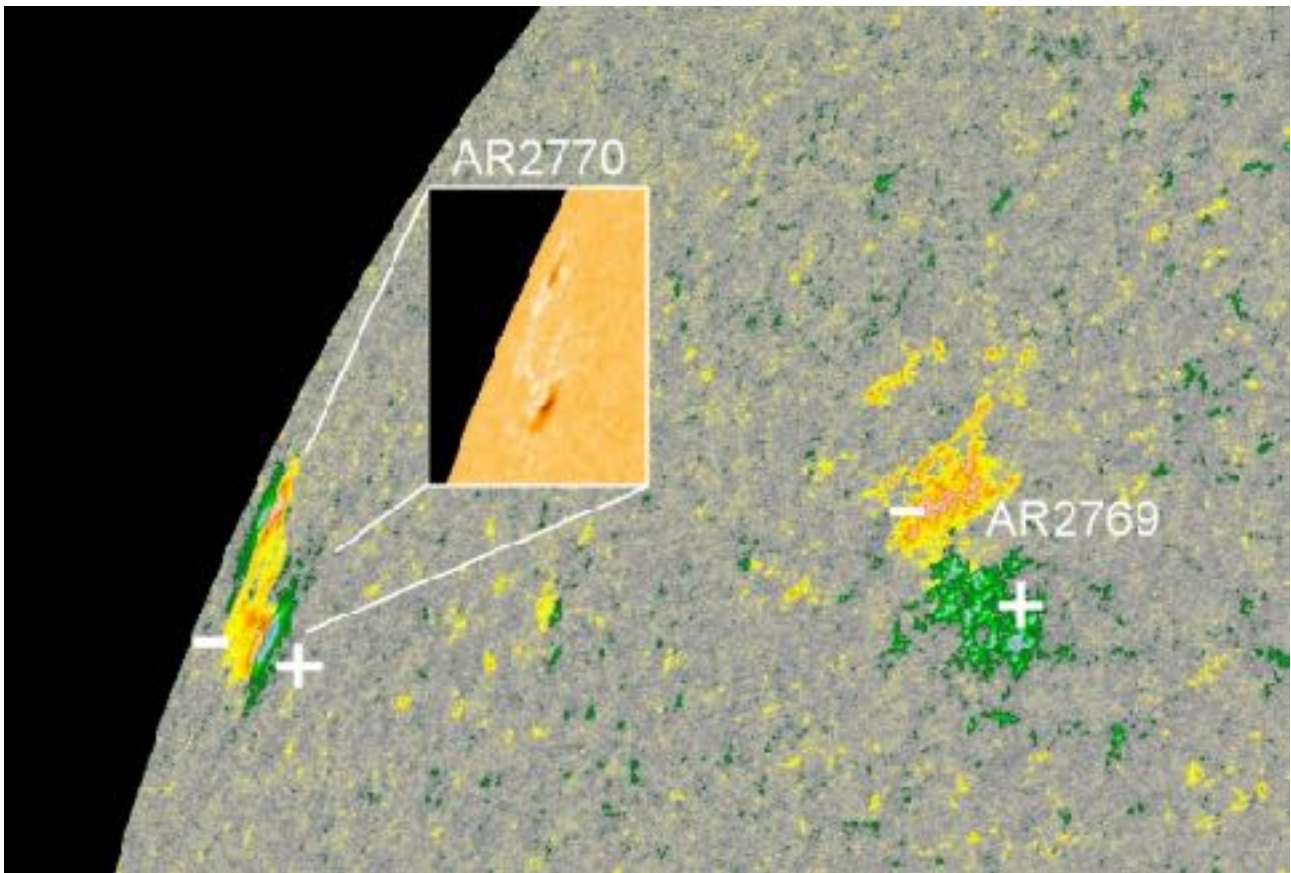
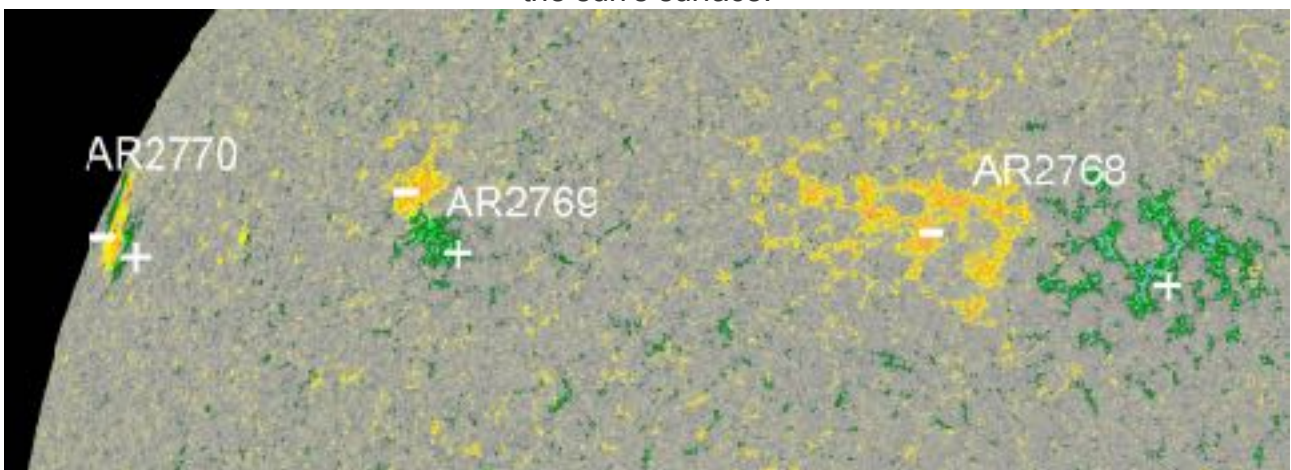


**SOLAR CYCLE 25 STRENGTHENS:** There's no longer any doubt. New Solar Cycle 25 is coming to life. The latest sign came yesterday with the emergence of a new sunspot group, AR2770, inset in this magnetic map of the sun's surface from NASA's Solar Dynamics Observatory (SDO):



In this false-color image of the sun, intense magnetic fields are denoted by yellow (-) and green (+).

AR2770 has two dark cores (each about the size of Mars) and is crackling with minor [B-class](#) solar flares. Its potential for even stronger flares will become clear in the days ahead as the sunspot turns toward Earth, more fully revealing its magnetic complexity. Active regions from Solar Cycle 25 are now strewn across the sun's northern hemisphere. These are places where magnetic fields are intensifying, creating islands of magnetism on the sun's surface.



The -/+ magnetic polarities of these regions mark them as members of Solar Cycle 25, per [Hale's Law](#).

In the cases of AR2769 and AR2770, the fields have intensified enough to form dark cores--that is, sunspots. A few days ago, AR2768 also had visible sunspots. It's a [target-rich environment](#) for amateur astronomers with safe solar telescopes.

The appearance of so many active regions at once is a clear sign that Solar Cycle 25 is gaining steam. However, that doesn't mean Solar Minimum is finished. These are just "starter sunspots," pipsqueaks compared to the behemoths expected when Solar Cycle 25 reaches its peak a few years from now. Solar activity should remain generally low despite this uptick in sunspot counts.