Monthly Distributions of NLDN and GLD360 Cloud-to-ground Lightning

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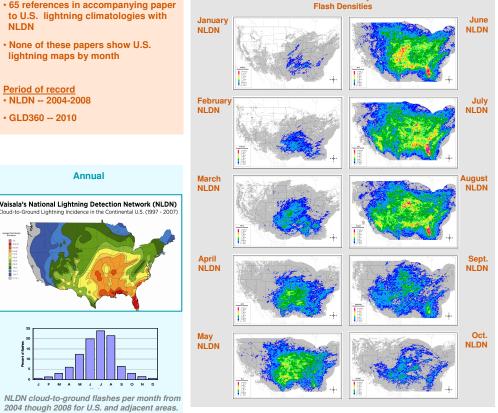
Prior Studies

- 65 references in accompanying paper to U.S. lightning climatologies with NLDN
- · None of these papers show U.S. lightning maps by month

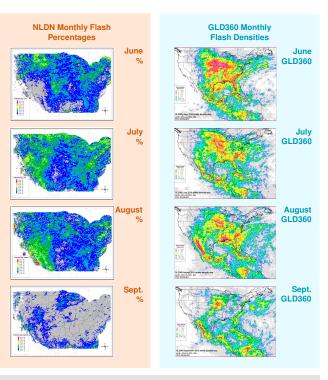
Period of record

- NLDN -- 2004-2008
- GLD360 -- 2010

Annual Vaisala's National Lightning Detection Network (NLDN)



NLDN Monthly



- Months with Most Frequent Lightning During Year
- --Winter S. California --March Central California valley
- --April -- West Coast mountains --May and June -- W. Texas, Oklahoma, Kansas, Nebraska
- --June Montana, northern California
- --June, July, and August Florida, Gulf Stream, and New England
- --July and August Arizona, New Mexico, W. Colorado, Nevada, Utah
- --August Oregon, Mexican coast
- Lightning All Year -E. Texas, Louisiana, Mississippi
- GLD360 Lightning Maxima
- -- Pacific and Gulf coasts of Mexico
- -- Central America, Cuba, northern South America