Abstract Submitted
for the APR20 Meeting of
The American Physical Society

Ongoing Investigation Into Long-Term Solar Variability Based
On Current Sunspot Number Databases ROBERT DUFFIN, County College
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Many calibrations of historic sunspot number observations have been carried out in
the past. New improved databases of historical sunspot data are in development. A
US-India collaborative group with the participation of authors (2, 3) at NSO (Na-
tional Solar Observatory), have constructed a proxy of sunspot parameters based
on archived spectroheliograms of daily observations in Ca K II spectral line which
began in 1904 at Kodaikanal Observatory (India) and in 1915 at Mount Wilson Ob-
servatory (California).group made up of an international team at ISSI (International
Space Science Institute, Bern) with participation of author (3) at NSO, is working
on re-calibration of sunspot number time-series. There is an effort to recover all
past records of sunspot observations and calibrate the observers to create a unified
time-series. The most recent time-series of monthly sunspot numbers starting from
1818, is available via SILSO (Sunspot Index and Long Solar Observations). Author
(1)investigating long-term solar variability based on historic sunspot number observ-
ations, presents a summary of historical sunspot number calibrations along with
current findings from ongoing analysis.

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Date submitted: 11 Nov 2019