

the entire year, generally 5-6 or 7 radiant
showers progressing at the same time,
for the same latitude - and in both
hemispheres - As a rule, there is good
reason to believe that the average
duration of each meteor shower is
about one month - occasionally only
1 or 2 days - Sometimes the same
shower (with a nearly fixed radiant)
endures for 2 or 3 months! This is a very
unexpected result, which Schiaparelli,
Prof. Newton of America, M^r A.S. Herschel
and myself have been cosmically
examining into the reasons of, and
think with some success - In some
cases no doubt there is some ^{direct} movement
of the radiant with the time -

Yours truly

Robert P. Greg F.R.S.

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14 Jan^y 1869

My dear Signor Facchini

I have received from you recently two
N^{os} of the Bullettino del Palermo, with some
Meteorologico valuable observations & reductions of observations
on the meteoric shower of last 9-14 August
giving average position of the radiant for these
Perseids $\alpha = 43.3$ $\delta = +56.8$ which
closely corresponds with the position assigned by
A.S. Herschel in 1863 viz: $43^\circ + 56^\circ$ In the
year 1867 the English observers found that
nearly 25 per cent radiated from ϵ & δ Capricorn
possibly these may belong to Perseid & Eregi radiant
N^o 11; possibly ^{they} may belong to the principal
Perseids - Last year 1868 however the radiant
was more definite and near η Persei - No doubt
there are at that time a number of
secondary meteor showers in progress, one
with a radiant near α Pegasi, another
in Ursa Majoris = δ . I take the liberty

of sending you some ^{charts and} papers relative to
the Determinations of the meteor showers,
their Radiants for the whole year; in
number about 70! which I have
determined on Charts prepared by my
friend & coadjutor M^r. A. S. Herschel, from
some 3000 observations made over
the space of 20 years, from the ^{meteor} Catalogue
of the British Association, and from the ^{regular}
Italian observations of Signor Zecchi of
Bergamo. The general results compare
pretty favourably with a similar kind
of work undertaken by Prof. Heis from
German observations. - The general
results are published in a large
& splendid Atlas with 25 plates
for the 12 months of the ^{whole} year - I
send you specimens of 2 or 3 of the
plates which I happen to have detached
duplicate copies of, that you may judge
of the nature of the work. The Atlas

can be procured (price 50 pence) at
Mess^{rs}. Taylor & Francis Red Lion Court
Fleet St
London
The last Edition is printed differently from
the first; the meteor tracks (continuous lines)
in green; the meridian lines in pink (rose)
and the constellations in black ink.
I do not know whether you ever receive
or see the ^{yearly} Reports of the British Association
which contain an immense amount
of information about luminous meteors,
Of course many of these Radiants
require still further investigation, as to
exact duration & time of the epoch, as
well as the position of the Radiant itself;
and possible ^{occasional} connection of one Radiant
with another; as well as the ^{also} movement
or elongation of a Radiant for a ^{meter} shower
lasting probably 8 or 10 weeks -
Curious as it seems, it seems probable
that there are ~~generally~~ ^{generally} throughout