

Geosci. Instrum. Method. Data Syst. Discuss., community comment CC2
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Reply on RC2

Fedor Zagumennov

Community comment on "Accounting for meteorological effects in the detector of the charged component of cosmic rays" by Maxim Philippov et al., Geosci. Instrum. Method. Data Syst. Discuss., <https://doi.org/10.5194/gi-2021-9-CC2>, 2021

Reply from one of co-authors Fedor Zagumennov (FSBI CAO)

Regarding upper-air soundings :

Since in our organization is a term called "aerology", which is missing in common scientific literature, we replace it with a well known name "upper-air sounding", which is the same. More information about aerological(upper-air) soundings is here:

https://library.wmo.int/index.php?lvl=notice_display&id=7417 - from World Meteorological Organization

<https://www.epa.gov/scram/air-quality-modeling-surface-and-upper-air-databases>

Upper air soundings are done twice(or more often) a day at 12 and 00 GMT, a balloon with a sonde is launched to atmosphere as high as >30 km, data telemetry from sonde is transmitted to ground.

"Upper air sounding" as a scientific term is commonly recognized at WMO, NOAA and others.

Best regards,

Fedor