**Atmospheric
Measurement
Techniques**
Open Access
Discussions

Interactive
Comment

Interactive comment on "New algorithm for integration between wireless microwave sensor network and radar for improved rainfall measurement and mapping" *by* Y. Liberman et al.

Y. Liberman et al.

yoavliberman@mail.tau.ac.il

Dear David,
Thank you very much for your comments.

Regarding your question, as indicated in the discussion paper on **Page - 11, Line - 20**: "the accuracy in the reconstruction of rain fields, derived by the radar and the ML, is dependent, mainly, on the number of links and the radar radius (distance from the target area) in each coordinate". This means that if in a given area the radar can provide a reliable estimate of the rain field (i.e., rather short radius distance from the

Full Screen / Esc

Printer-friendly Version

Interactive Discussion

Discussion Paper

radar), and also the distribution of the links in that area is rather sparse (i.e., one or couple of links are available) , then the rainfall reconstruction in that area will mostly rely on the radar, that is, the radar's weight ($\tilde{\alpha}_{rad;i}$) from eq. (11) will be higher than the microwave link's weight ($\tilde{\alpha}_{ml;i}$). This fact can also be understood from the proposed integration model in eq. (7) and eq. (8).

Sincerely,

Interactive comment on Atmos. Meas. Tech. Discuss., 7, 4481, 2014.

Full Screen / Esc

Printer-friendly Version

Interactive Discussion

Discussion Paper