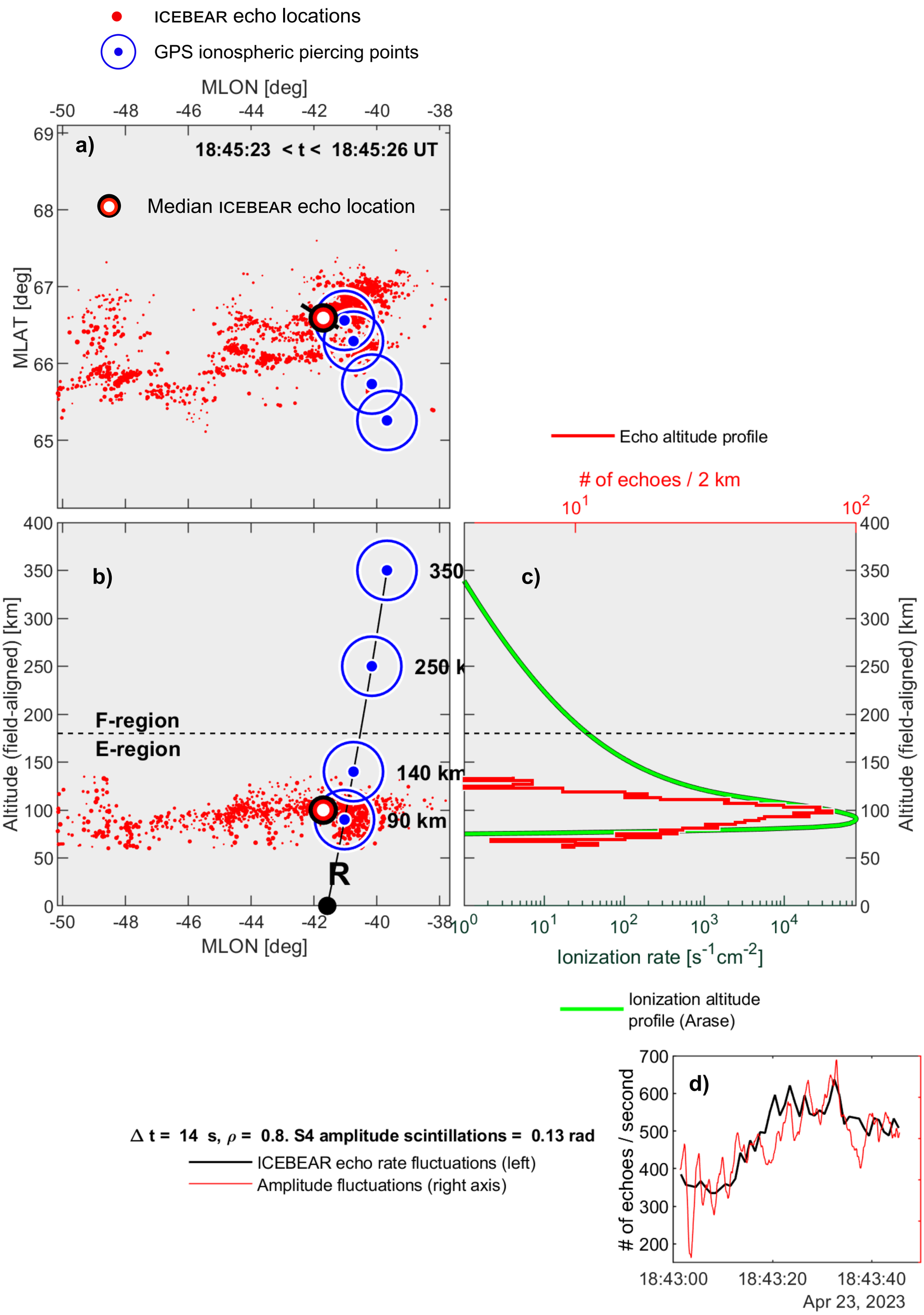
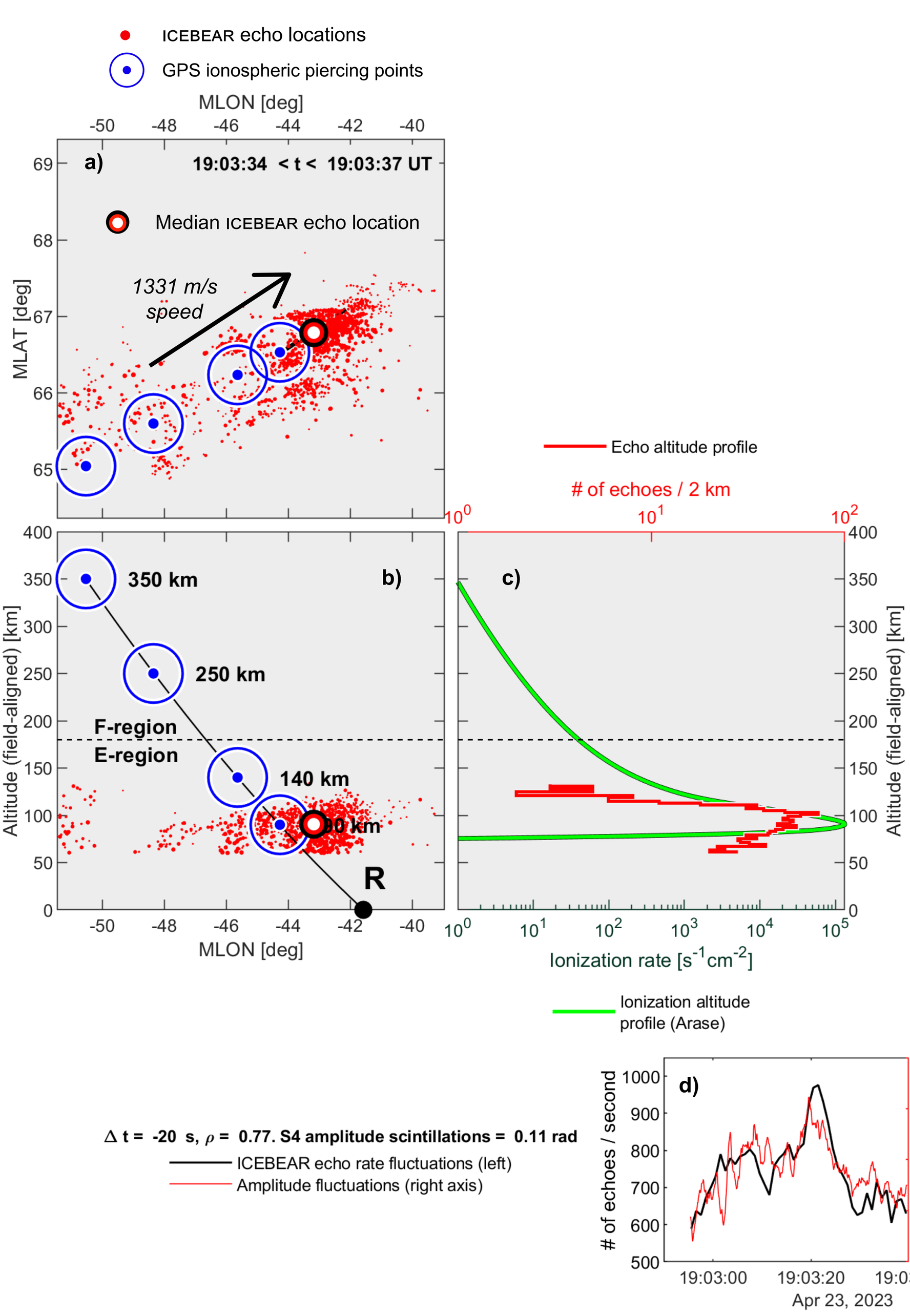
Supplementary data

This document contains three additional examples of conjugate observations by icebear, Arase, and chain GPS scintillations, akin to Figure 6 in the Main Paper. For detailed key, see Figure 6 in the Main paper.



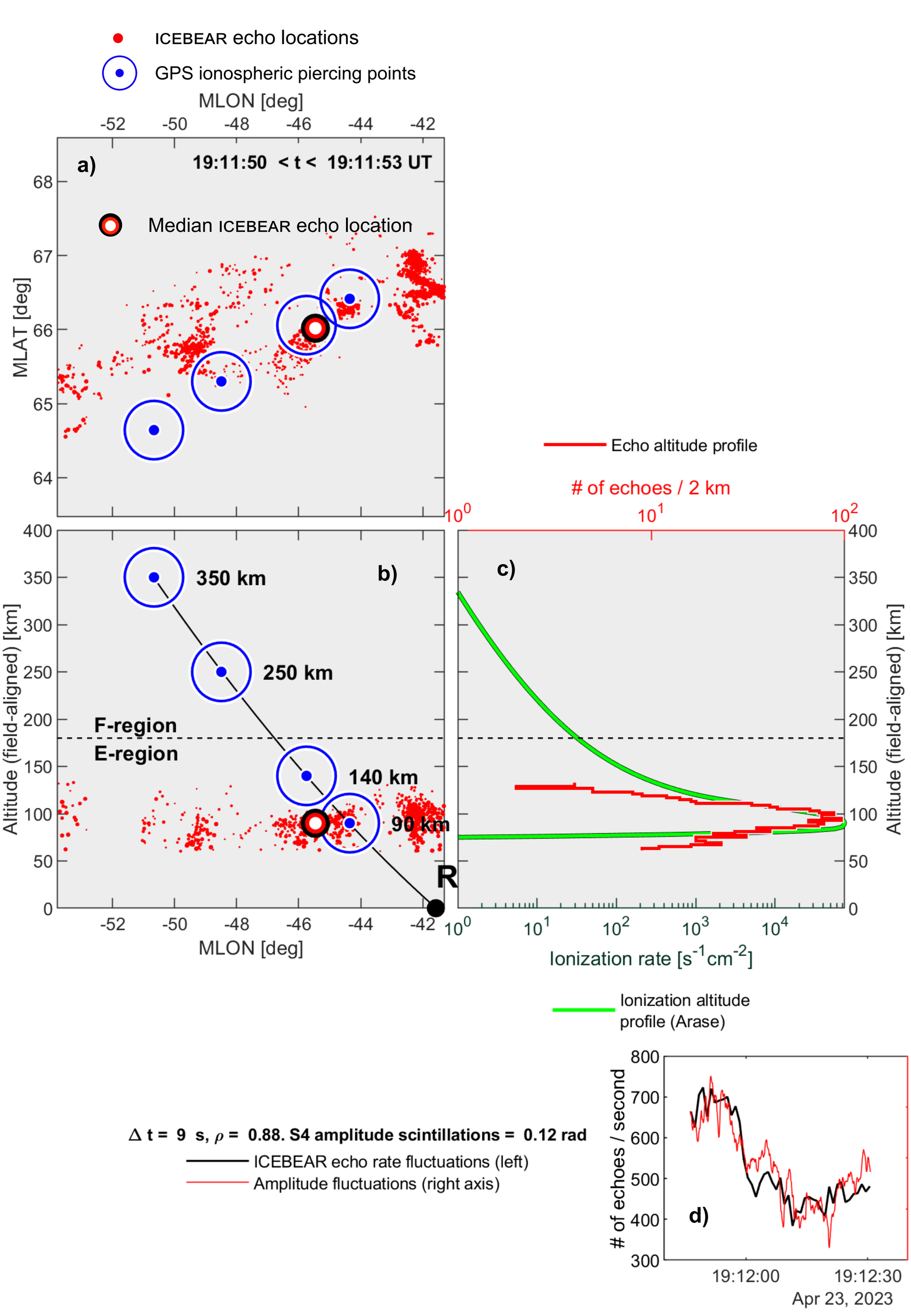
v9-cluster 524 on 2023 Apr 23 with 2419 echoes. Cluster velocity not determined.

Figure S1. See Figure 6 in the Main Paper for detailed key.



v9-cluster 1030 on 2023 Apr 23 with 10124 echoes. Displacement: **Δ x = 11 km, Δ y = 9 km, Δ t = 10 s, v = 1331 m/s, E = 74 mV/m.**

Figure S2. See Figure 6 in the Main Paper for detailed key.



v9-cluster 1233 on 2023 Apr 23 with 1182 echoes. Cluster velocity not determined.

Figure S3. See Figure 6 in the Main Paper for detailed key.