## Annama H5 Meteorite Fall: Orbit, Trajectory and Recovery

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We present a summary on the trajectory reconstruction, dark flight simulations and preimpact orbit for the bright fireball appeared in the night sky over Kola Peninsula, close to Finnish border, on April 19, 2014 at 00h14m13.0±0.1s (according to Finnish time which equals to UTC +2h). The fireball was instrumentally recorded in Finland from Kuusamo, Mikkeli and Muhos observing sites belonging to the Finnish Fireball Network. Additionally, a video made from Snezhnogorsk (Russia) from the opposite side of the fireball track, was carefully calibrated and taken into account in trajectory reconstruction. Based on the thorough analysis of the fireball it was concluded that part of the meteoroid survived the atmospheric entry and reached the ground. To further specify impact area dark flight simulations were done to build a strewn field map showing most probable distribution of fragments. The 5-day expedition with 4 participants from Russia and Finland took place at the end of May following snow melt and preceding vegetation growth. On May 29, 2014, first 120.35 g meteorite fragment was found on a local forest road within the predicted impact area. Second 47.54 g meteorite fragment fully covered with fusion crust was recovered nearby on the following day. Both pieces were preserved in very good condition with zero weathering grade and were thoroughly studied in the laboratory.