4th International Workshop on
GeoInformation Science

geo-advances 2017

13-14 October 2017

Karabuk University Safranbolu Campus
(Fethi Toker GSTF) Conference Halls
Safranbolu / Turkey

Abstracts

www.geoadvances.org

Paper ID:107

USING READY-to-USE DRONE IMAGES in FORESTRY ACTIVITIES: CASE STUDY of ÇINARPINAR in KAHRAMANMARAS, TURKEY

S. Gülci [1],*, M. Akgül [2], A. E. Akay [3], İ. Taş [3]

[1] Forest Engineering Department, Faculty of Forestry, Kahramanmaras Sutcu Imam University, 46100 Kahramanmaras, Turkey (sgulci@ksu.edu.tr)

[2] Forest Engineering Department, Faculty of Forestry, Istanbul University, Istanbul, Turkey (makgul@istanbul.edu.tr)

[3] Forest Engineering Department, Faculty of Forestry, Bursa Technical University, 16330 Yıldırım Bursa, Turkey (abdullah.akay, inanc.tas)@btu.edu.tr

KEY WORDS: Forestry, Remote sensing, Drone, Monitoring and assessment

ABSTRACT:

This short paper aims to present pros and cons of current usage of ready-to-use drone images in the field of forestry also considering flight planning and photogrammetric processes. The capabilities of DJI Phantom 4, which is the low cost drone producing by Dji company, was evaluated through sample flights in Cinarpinar Forest Enterprise Chief in Kahramanmaras in Turkey. In addition, the photogrammetric workflow of obtained images and automated flight were presented with respect to capabilities of available software. The flight plans were created by using Pix4DCapture software with android based cell phone. The results indicated that high-resolution imagery obtained by drone can provide significant data for assessment of forest resources, forest roads, and stream channels.