

## Prof. ALİ ÜMRAN KÖMÜŞCÜ



### Personal Information

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### International Researcher IDs

ORCID: 0000-0001-9930-2479

Publons / Web Of Science ResearcherID: F-8905-2013

ScopusID: 6507604232

Yoksis Researcher ID: 220767



### Education Information

Doctorate, University of Oklahoma, College of Geosciences, Geography, United States Of America 1989 - 1993

Postgraduate, University of Minnesota, College of Social Sciences, Geography, United States Of America 1987 - 1989

Undergraduate, Istanbul University, Faculty Of Literature, Coğrafya Bölümü, Turkey 1981 - 1985

### Foreign Languages

English, C2 Mastery

### Research Areas

Physical Geography, Atmosphere-Ocean Interaction, Hydrology-Hydrometeorology, Climate, Meteorological Disasters

### Academic Titles / Tasks

Professor, Ankara Hacı Bayram Veli University, Faculty of Letters, Department of Geography, 2023 - Continues

Associate Professor, Ankara Hacı Bayram Veli University, Faculty of Letters, Department of Geography, 2022 - 2023

Lecturer, Gazi University, Gazi Eğitim Fakültesi, Türkçe Ve Sosyal Bilimler Eğitimi, 2018 - 2019

Research Assistant, Oklahoma Üniversitesi, Yer Bilimleri Fakültesi, Coğrafya Bölümü, 1991 - 1993

### Academic and Administrative Experience

Head of Department, Ankara Hacı Bayram Veli University, Faculty of Letters, Department of Geography, 2022 - Continues

## Courses

Bilgi Teknolojileri, Undergraduate, 2023 - 2024

Kartografya, Undergraduate, 2023 - 2024

Meteorolojik Afetler ve İklim Değişikliği, Postgraduate, 2022 - 2023

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Characterizing variability of spatial patterns of annual and seasonal precipitation of Turkey and identifying the probable driving factors including teleconnection patterns**  
Kömüşcü A. Ü., Aksoy M.  
JOURNAL OF WATER AND CLIMATE CHANGE, vol.15, no.3, pp.1392-1416, 2024 (SCI-Expanded)
- II. **Long-term spatio-temporal trends and periodicities in monthly and seasonal precipitation in Turkey**  
Kömüşcü A. Ü., Aksoy M.  
Theoretical and Applied Climatology, vol.151, no.3-4, pp.1623-1649, 2023 (SCI-Expanded)
- III. **Dynamics of precipitation regions of Turkey: A clustering approach by K-means methodology in respect of climate variability**  
KÖMÜŞCÜ A. Ü., Turgu E., Deliberty T.  
Journal of Water and Climate Change, vol.13, no.10, pp.3578-3606, 2022 (SCI-Expanded)
- IV. **Analysis of cold anomalies observed over Turkey during the 2018/2019 winter in relation to polar vortex and other atmospheric patterns**  
Kömüşcü A. Ü., Oğuz K.  
Meteorology and Atmospheric Physics, vol.133, no.4, pp.1327-1354, 2021 (SCI-Expanded)
- V. **Long-term mean monthly temperatures trends of the United Arab Emirates**  
Komuscu A. Ü.  
International Journal of Global Warming, vol.11, no.1, pp.1-22, 2017 (SCI-Expanded)
- VI. **Analysis of the Marmara flood in Turkey, 7-10 September 2009: An assessment from hydrometeorological perspective**  
Kömüşcü A. Ü., Çelik S.  
Natural Hazards, vol.66, no.2, pp.781-808, 2013 (SCI-Expanded)
- VII. **Reclassification of rainfall regions of Turkey by K-means methodology and their temporal variability in relation to North Atlantic Oscillation (NAO)**  
Sönmez I., Kömüşcü A. Ü.  
Theoretical and Applied Climatology, vol.106, no.3-4, pp.499-510, 2011 (SCI-Expanded)
- VIII. **Homogeneity analysis of long-term monthly precipitation data of Turkey**  
Kömüccü A. Ü.  
Fresenius Environmental Bulletin, vol.19, no.7, pp.1220-1230, 2010 (SCI-Expanded)
- IX. **Analysis of Turkish precipitation data: Homogeneity and the Southern Oscillation forcings on frequency distributions**  
Karabörk M. Ç., Kahya E., Kömüşcü A. Ü.  
Hydrological Processes, vol.21, no.23, pp.3203-3210, 2007 (SCI-Expanded)
- X. **An analysis of spatial and temporal dimension of drought vulnerability in Turkey using the standardized precipitation index**  
Sönmez F. K., Kömüşcü A. Ü., Erkan A., Turgu E.  
Natural Hazards, vol.35, no.2, pp.243-264, 2005 (SCI-Expanded)
- XI. **Analysis of meteorological and terrain features leading to the Izmir flash flood, 3-4 November 1995**  
Kömüşcü A. Ü., Erkan A., Çelik S.  
Natural Hazards, vol.18, no.1, pp.1-25, 1998 (SCI-Expanded)
- XII. **An analysis of the fluctuations in the long-term annual mean air temperature data of Turkey**  
Kömüşcü A. Ü.

International Journal of Climatology, vol.18, no.2, pp.199-213, 1998 (SCI-Expanded)

- XIII. **Possible impacts of climate change on soil moisture availability in the Southeast Anatolia Development Project region (GAP): An analysis from an agricultural drought perspective**  
Komuscu A. Ü., Erkan A., Oz S.  
Climatic Change, vol.40, no.3-4, pp.519-545, 1998 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Prediction of Precipitation using Multiscale Geographically Weighted Regression**  
Taşyürek M., Çelik M., Kömüşcü A. Ü., Dadaşer Çelik F.  
International Journal of Environment and Geoinformatics, vol.11, no.2, pp.61-66, 2024 (Peer-Reviewed Journal)
- II. **Türkmenistan'da Toz Taşınımı ve Etki Eden Faktörler**  
Oğuz K., Kömüşcü A. Ü., Günyel S.  
Yeni Türkiye - Turkmenistan Özel Sayı, vol.1, no.130, pp.421-429, 2023 (Peer-Reviewed Journal)
- III. **An Analysis of Meteorological Conditions in Relation to Occurrence of the Mucilage Outbreaks in Sea of Marmara, March-June 2021**  
Kömüşcü A. Ü., Aksoy M., Doğan O. H.  
International Journal of Environment and Geoinformatics, vol.9, no.3, pp.126-145, 2022 (Peer-Reviewed Journal)
- IV. **Ani Taşkınlara Karşı Dirençliliği Artırmada Erken Uyarı Sistemlerini Rolü: FFG Sistemi İle Doğu Karadeniz Seline Yönelik Bir Uygulama**  
KÖMÜŞCÜ A. Ü.  
Resilience, 2022 (Peer-Reviewed Journal)
- V. **8-12 Eylül 2009 Tarihlerinde Marmara Bölgesi'nde Meydana Gelen Sel Olayının Yağış Analiz**  
KÖMÜŞCÜ A. Ü., Ceylan A.  
Coğrafi Bilimler Dergisi, vol.9, no.2, pp.209-220, 2012 (Peer-Reviewed Journal)
- VI. **Effects of rainfall variability on spatial accumulation of peak runoff and excess runoff depth: Little Washita River Basin, Oklahoma, USA**  
Komuscu A. Ü., Legates D. R.  
Journal of Environmental Hydrology, vol.7, 1999 (Scopus)

## Books & Book Chapters

- I. **İklim Değişikliği ve Meteorolojik Afetler**  
KÖMÜŞCÜ A. Ü., KILAR H.  
in: İklim Değişikliği ve Etkileri: Bütünsel Bir Yaklaşım, , Editor, Bidge Yayınevi, Ankara, pp.114-158, 2024
- II. **Klimatoloji İçin İstatiksel Analiz**  
Kömüşcü A. Ü.  
Net Kitap Yayıncılık, Ankara, 2022
- III. **Ani Taşkın Erken Uyarı Sistemi (FFGS)**  
KÖMÜŞCÜ A. Ü.  
in: Meteoroloji ve Sektörel Yansımalar, Volkan Mutlu Çoşkun, Hakan Doğan, Hikmet Eroğlu, Derya Ergün, Editor, Sonçağ Akademi, Ankara, pp.187-202, 2021

## Refereed Congress / Symposium Publications in Proceedings

- I. **Trends and Periodicities of Monthly and Seasonal Precipitation of Turkey for the 1975-2021 period**  
KÖMÜŞCÜ A. Ü.  
Atmosfer Bilimleri Sempozyumu 2022, İstanbul, Turkey, 18 October 2022

- II. **10-11 AĞUSTOS 2021 BATI KARADENİZ TAŞKINLARININ HİDROMETEOROLOJİK DEĞERLENDİRMESİ**  
KÖMÜŞCÜ A. Ü.  
11. Ulusal Hidroloji Kongresi, Gaziantep, Turkey, 13 October 2022
- III. **Bir Coğrafyacı Yaklaşımı 10 Ağustos 2021 Bozkurt Sel Afetinin Değerlendirilmesi**  
KÖMÜŞCÜ A. Ü.  
TÜCAUM 2022 ULUSLARARASI COĞRAFYA SEMPOZYUMU, Ankara, Turkey, 12 October 2022

## **Scientific Refereeing**

Fırat Üniversitesi Sosyal Bilimler Dergisi, National Scientific Refreed Journal, December 2023  
Sinop Fen Bilimleri Dergisi, National Scientific Refreed Journal, May 2023  
Afet ve Risk Dergisi, National Scientific Refreed Journal, February 2023  
Doğal Afetler ve Çevre, National Scientific Refreed Journal, June 2022

## **Metrics**

Publication: 25  
Citation (Scopus): 457  
H-Index (Scopus): 8

## **Congress and Symposium Activities**

11.Uluslararası Atmosfer Bilimleri Sempozyumu, Attendee, İstanbul, Turkey, 2022  
11.Ulusal Hidroloji Kongresi, Attendee, Gaziantep, Turkey, 2022  
TÜCAUM 2022 Uluslararası Coğrafya Sempozyumu, Attendee, Ankara, Turkey, 2022