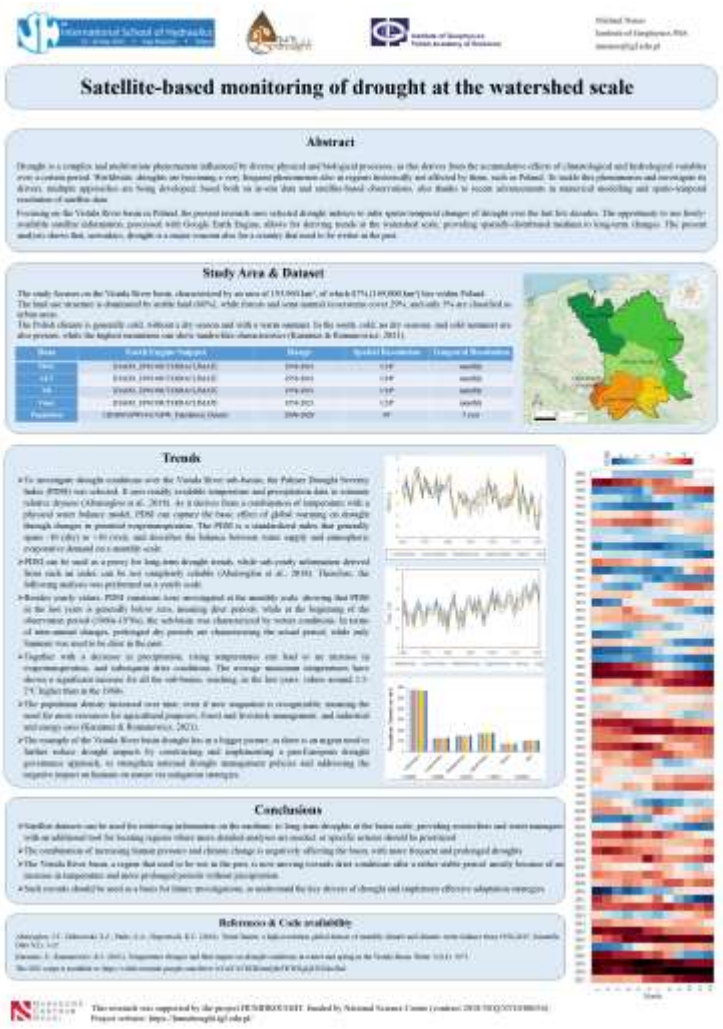
XL International School of Hydraulics
23 - 26 May 2023 • Kąty Rybackie • Poland

Satellite-based monitoring of drought at the watershed scale



Satellite-based monitoring of drought at the watershed scale

Abstract

Study Area & Dataset

Trends

Conclusions

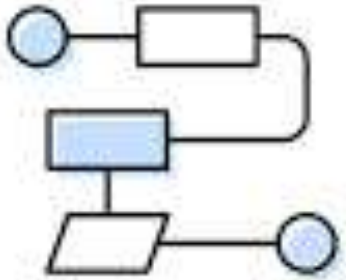
References & Code availability

Institute of Geophysics
Polish Academy of Sciences

Michael Nones

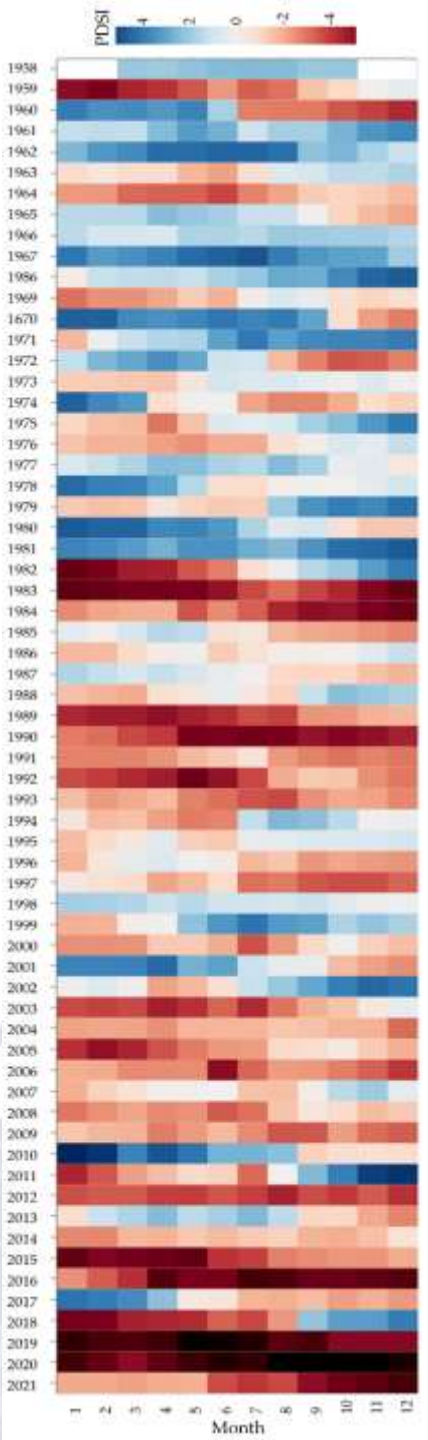
Google Earth Engine

Satellite imagery



Existing datasets

Drought Vistula River basin



Data	Earth Engine Snippet	Range	Spatial Resolution	Temporal Resolution
PDSI	IDAHO_EPSCOR/TERRACLIMATE	1958-2021	1/24º	monthly
AET	IDAHO_EPSCOR/TERRACLIMATE	1958-2021	1/24º	monthly
PR	IDAHO_EPSCOR/TERRACLIMATE	1958-2021	1/24º	monthly
Tmax	IDAHO_EPSCOR/TERRACLIMATE	1958-2021	1/24º	monthly
Population	CIESIN/GPWv411/GPW_Population_Density	2000-2020	30”	5 year