



Global Energy and Water Exchanges  
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World Climate Research Programme

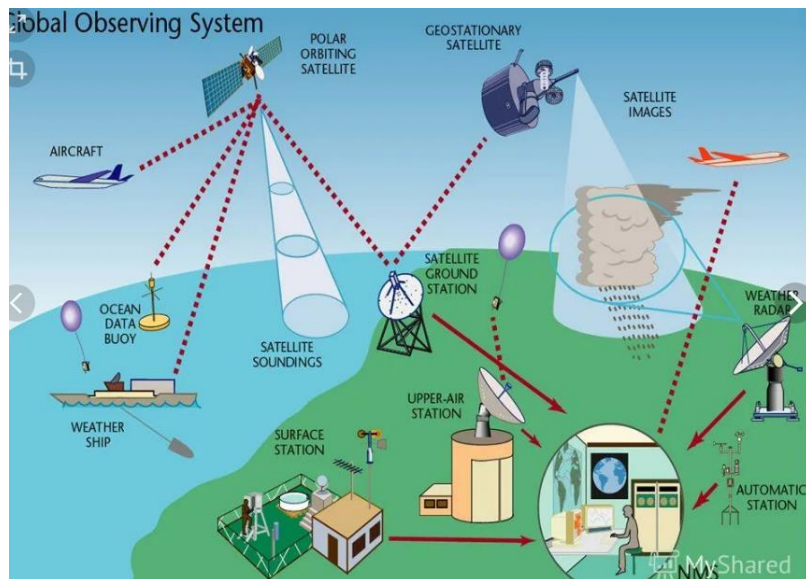


**TAJIK AGRARIAN UNIVERSITY**  
*Named after Shirinsho Shohtemur*

*State Unitary Enterprise Aerogeodesy in, Dushanbe*

Tajikistan| Dushanbe

# INTEGRATED CHALLENGES OF RESEARCH THE IMPACT OF CLIMATE VARIABILITY TO RIVER CHANNELS AND REDUCTION OF AGRICULTURAL LAND AREA POTENTIAL IN THE (PAS) AREA PERMANENT ACTIVE STATIONS OF TAJIKISTAN



**Dr. MIRASIL MIRZOEV**

Phd, of Geodesy & Geoinformatics  
Department Land management & Geodesy  
faculty.

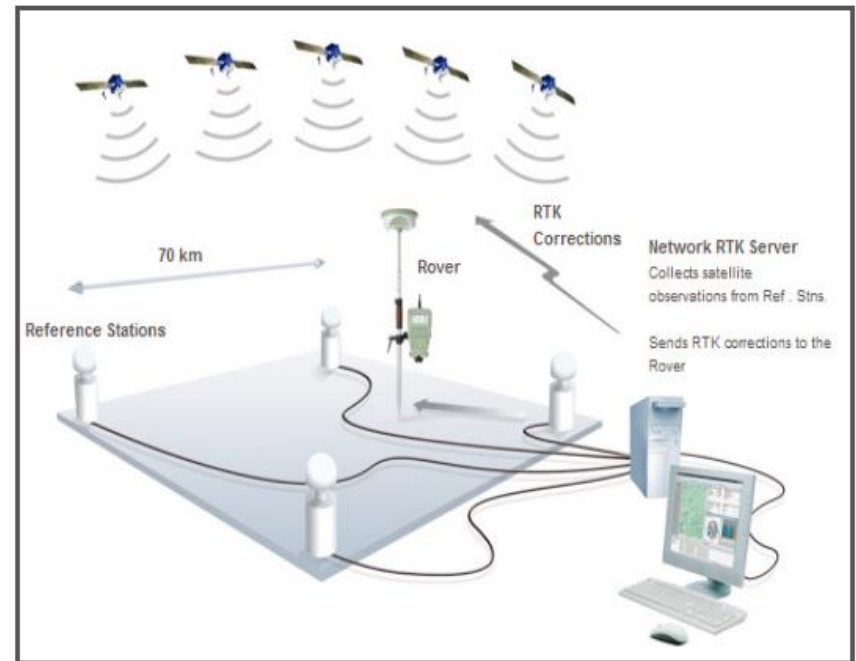
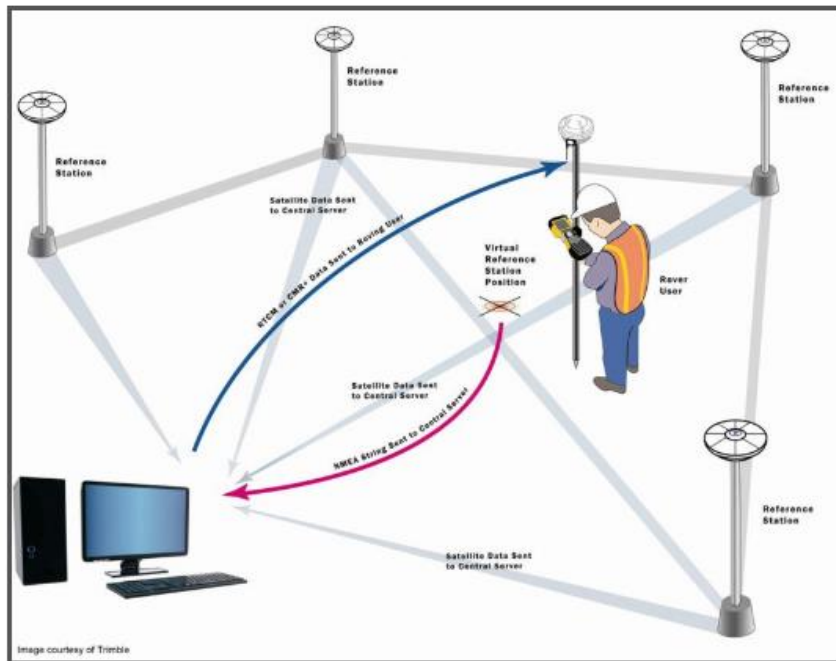
Head of Land remote control department.

+992 93 504 01 84

[mirasilfazo@gmail.com](mailto:mirasilfazo@gmail.com)

# What is PAS?

A permanently operating satellite reference (base) station is a hardware and software complex designed to ensure measurements and determine the spatial location of objects by providing information for correcting data obtained using satellite (GNSS) navigation and geodetic receivers, including satellite, communication, computer and other, equipment, specialized software installed in the area of measurements and positioning, partially fixed in space on a permanent basis and functioning continuously.



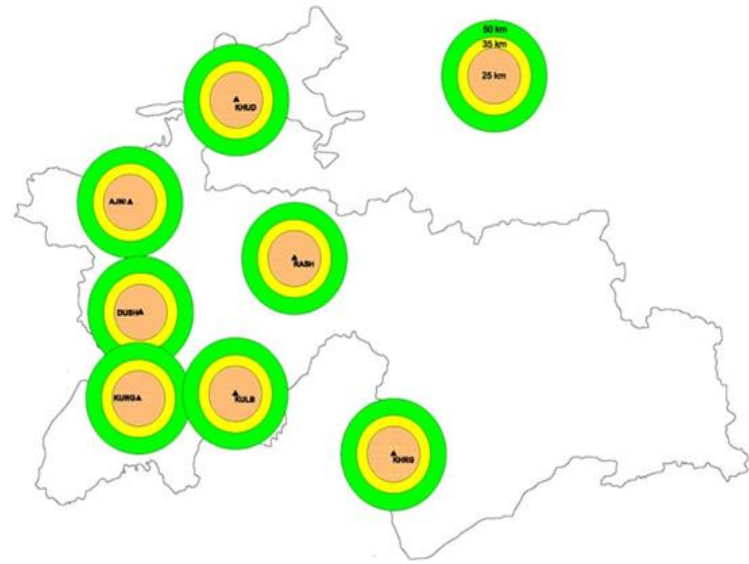


## Object of study

- as shown on the map about the location of the PDS and the river channels of Zeravshan, Dushanbinka, Kofarnigan, Vakhsh and Elok can be observed

## Basic Goals and Challenges

1. Develop an integrated monitoring network for changes in the riverbed processes, taking into account the coordination and assessment of the degree of stability of river valleys under the extreme climate change conditions using PAS
2. Modeling the mechanism for fixing the coordinates and centers of agricultural lands in a low ameliorative situation





## An Expected results:

1. To develop an integrated network for monitoring of rivers channel changes under the processes and assessment of stability of river valleys degree at extreme climate change conditions using PAS
2. Occurrences Database on climate variability and river channel modification
3. Revealing the potential of newly irrigated territories and determining the area worse than the reclamation state of agricultural lands in a timely
4. Coordinate network for controlling the influence of exogenous factors on the PAS zone

## Reference for collaboration



ГУП Аэрогеодезия Душанбе  
734033, г. Душанбе ул. Абая 4/1  
тел: (992 37) 233-43-23  
(992 37) 233-43-20  
e-mail: guap.kvda@mail.ru  
e-mail: info@geodesy.tj

1. Геодезические изыскания



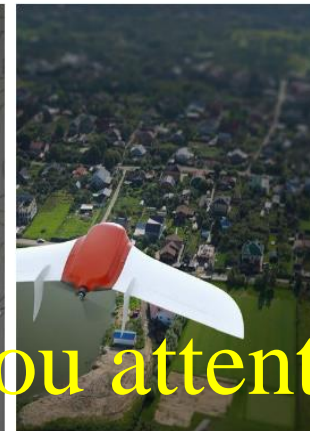
[Подробнее](#)

2. Топографические работы



[Подробнее](#)

3. Аэрофотосъемка с БПЛА



[Подробнее](#)

4. Картография и ГИС



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Thank you for you attention