

<https://www.centralasiarin.net>

Central Asia Regional Information Network

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Collaboration in
the heart of
Eurasia

A regional network in the GOFC-GOLD program: <https://gofcgold.umd.edu/>



CARIN REGIONAL COORDINATOR

Prof. Sagynbek Orunbaev



*American University
of Central Asia*

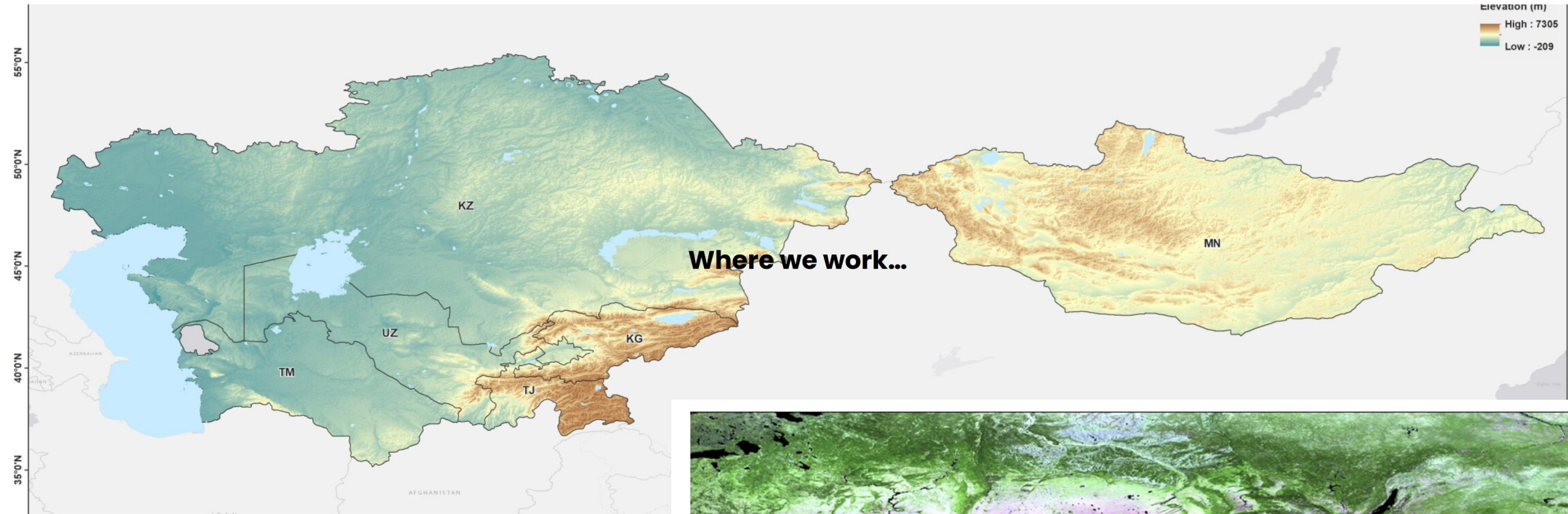


CARIN U.S. COORDINATOR

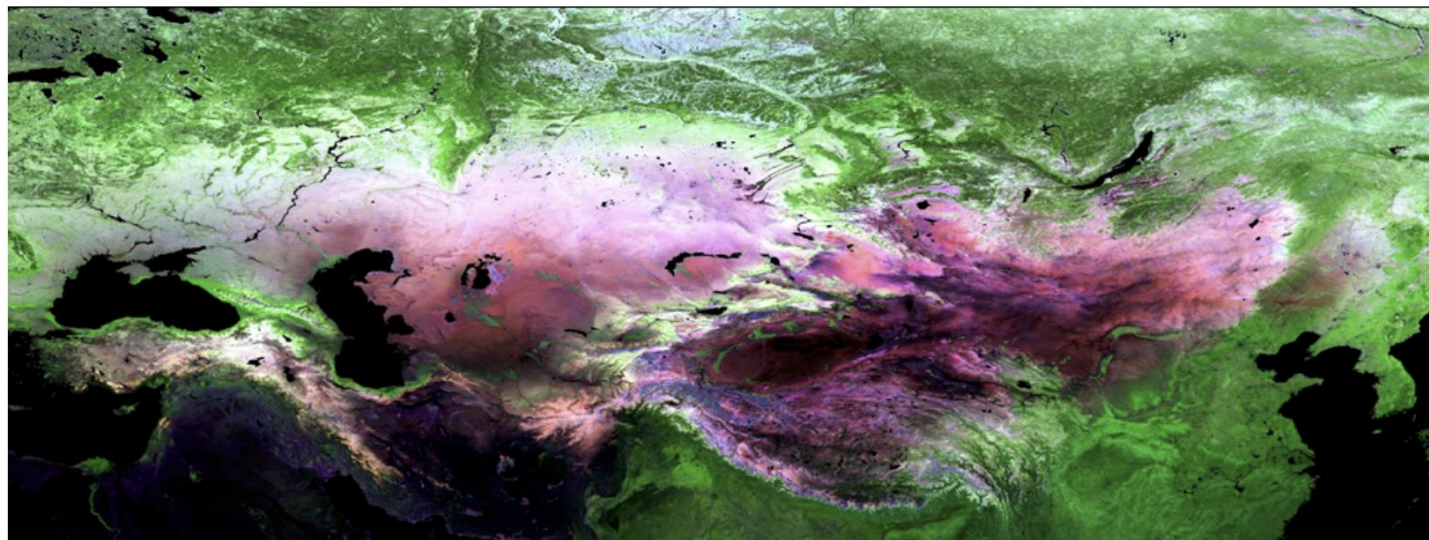
Prof. Geoff Henebry



Center for Global Change
and Earth Observations
MICHIGAN STATE UNIVERSITY

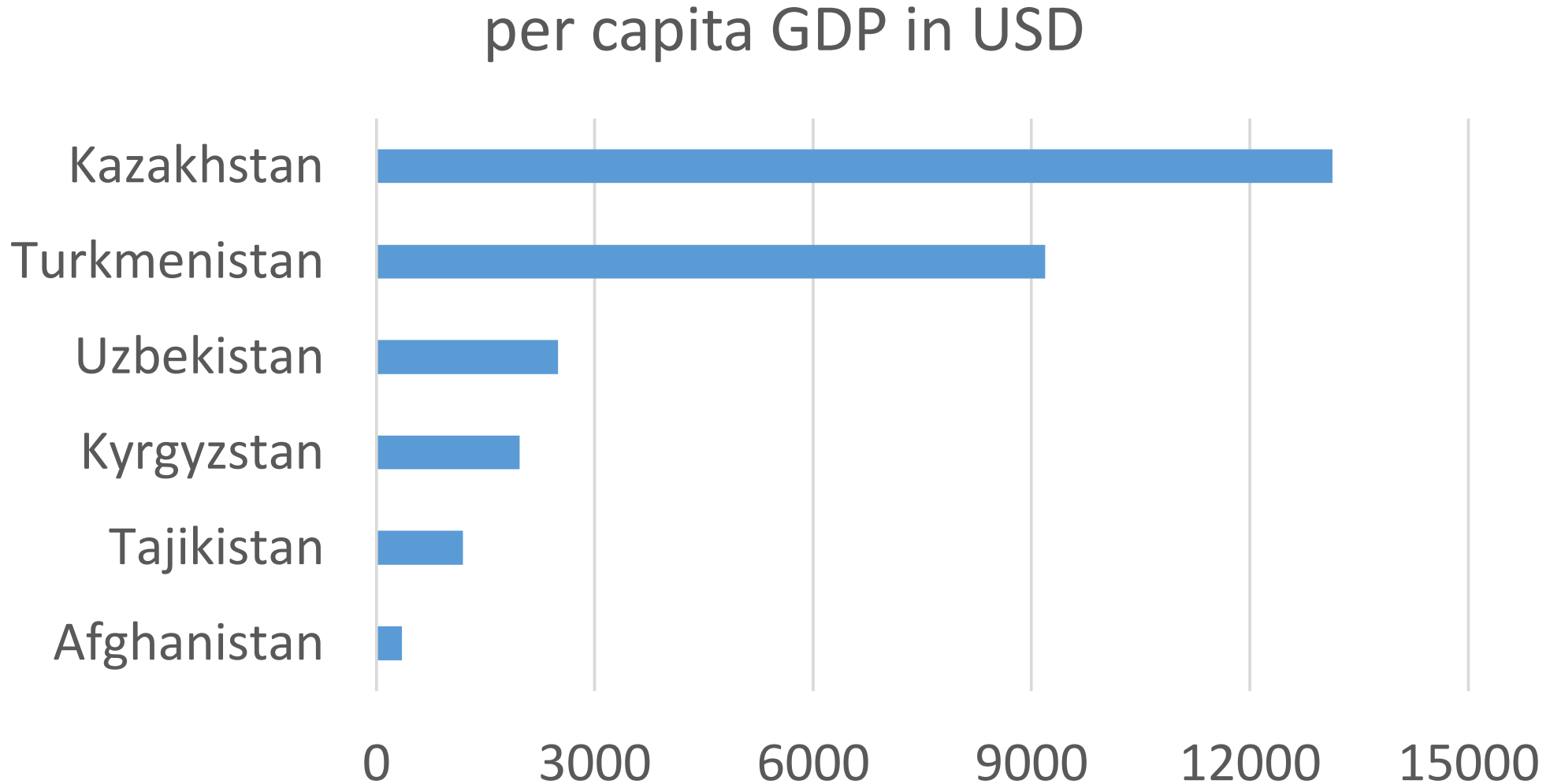


Kazakhstan
Kyrgyzstan
Mongolia
Tajikistan
Turkmenistan
Uzbekistan
[Afghanistan]



Remote sensing reveals the drylands of Central Asia using a long time series of MODIS surface reflectance data (from MCD43C4) processed using the “tasseled cap transform” to produce three factors displayed in this false color composite: “greenness” shown here in green is associated with vegetation; “brightness” shown in red is associated with the amount of exposed soil; and “wetness” shown in blue draws our attention to high-elevation snowy areas. Areas in flat black displayed open water. Very dark areas (thus low values in brightness, greenness, and wetness) are associated with very arid deserts.

Key challenges for regional meetings: small economies & regional geopolitics



September 2019: Nursultan [once again Astana], KZ

2020: plague-time

May 2021: CARIN Regional Meeting, online

May 2022: CARIN Regional Meeting, online

September 2023: CARIN Regional Meeting in Issyk-Kul
and Early Career Scientist (ECS) training in Bishkek, KG

Under development for Fall 2025: near Tashkent, UZ

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CARIN Priority Themes under a Changing Climate

- **Water & Agriculture**
- **Pasture Use & Degradation**
- **Natural Hazards** (earthquakes, landslides & mudflows, floods, drought, dust storms/air quality, etc.)
- **Urbanization Issues**

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CARIN Regional Workshop at Issyk Kul & ECS training in Bishkek, September 2023



Learn more about it here: <https://www.centralasiarin.net/2023carinworkshop>

EARLY CAREER SCIENTIST (ECS) Training 2.5 days ahead of the September 2023 CARIN Workshop

Monday 11SEP

Session 1: Dr. Garik Gutman (NASA), “**Earth Observations for Studying Land-Cover and Land-Use Change**”

Session 2: Prof. Dr. Geoff Henebry (MSU), “**Introduction to Land Surface Temperature & its Applications**”

Session 3: Dr. Monika Tomaszewska (MSU), lab exercise on LST data products in R

Lunch

Session 4: Dr. Gabriel Senay (USGS), “**Remote Sensing Based Evapotranspiration Modeling for Water Use Mapping and Drought Monitoring**”

Session 5: Drs. Senay and Tomaszewska, ***Lab Exercises on Landsat AET products and land cover in R***

Session 6: Review of Exercise Results and General Discussion

Tuesday 12SEP

Session 1: Prof. Dr. Henebry, “**Introduction to Land Surface Phenology & Modeling Land Surface Phenologies**”

Session 2: Dr. Tomaszewska and Prof. Dr. Sagynbek Orunbaev (AUCA), ***Lab Exercises on LSP modeling***

Session 3: Prof. Dr. Henebry, “**Change Analysis with Pixel & Image Time Series**”

Lunch

Session 4: Prof. Dr. Sagynbek, “**Climate Change & Water Issues in Montane Central Asia**”

Session 5: All trainers, ***Lab Exercises on mapping changes in LSP, LST, and ET in R***

Session 6: Review of Exercise Results and General Discussion

Wednesday 13SEP

Session 1: Prof. Dr. Henebry, “**Effective Graphical Communication**”: *(i) Graphical Perception & Its Implications; (ii) Designing for Clarity; (iii) The Hazards of Color; (iv) Interactive Critique of Graphics in Recent Journal Articles*

Session 2: Prof. Dr. Henebry, “**On Publishing Science**”: *(i) Choosing Journals to Target; (ii) Before Submitting the Manuscript; (iii) The Review Process; (iv) Writing Science and upcoming ECS webinars; (v) Q&A*

Follow-up training with ECS online sessions during 2023-24 to work through ***Writing Science: How to write papers that get cited and proposals that get funded*** by Joshua Schimel (Oxford Univ Press 2011)

13 OCT 2023: **scientific storytelling 1**

17 NOV 2023: **scientific storytelling 2**

08 DEC 2023: **scientific storytelling 3**

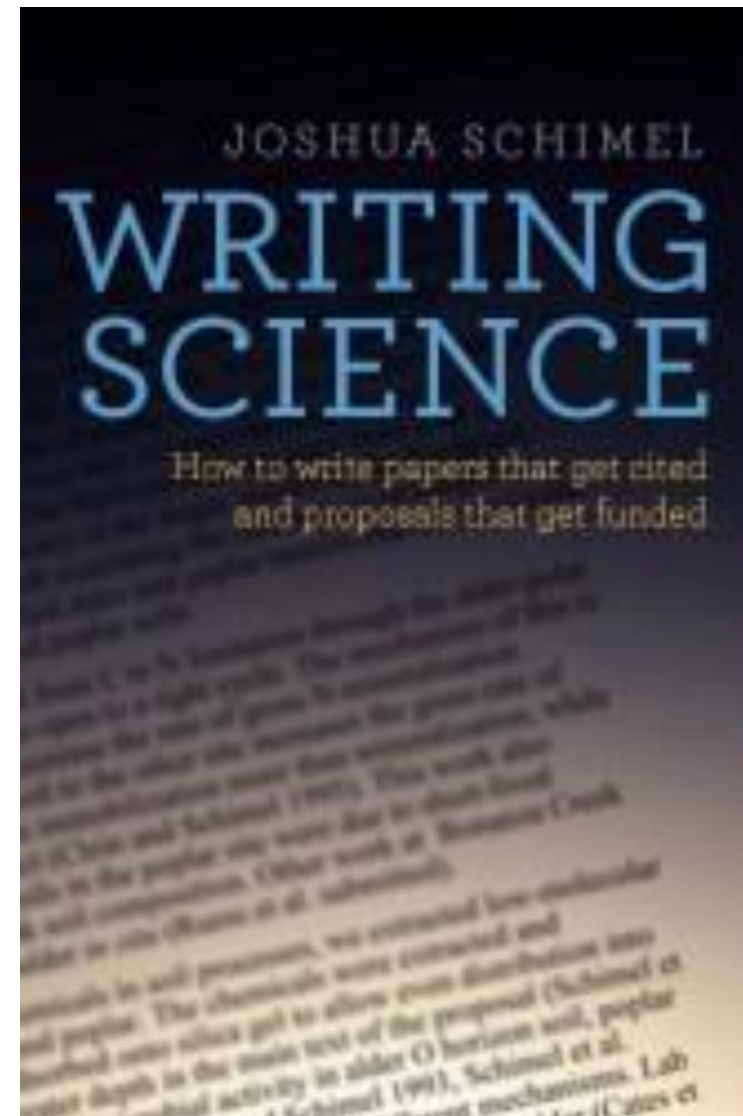
09 FEB 2024: **scientific storytelling 4 & oral presentations 1**

22 MAR 2024: **oral presentations 2 & effective posters**

09 APR 2024: **reviewing & responding to reviewers**

***Writing Science* provided the focus for many ECS webinars**

Each ECS received 1-yr access to an official electronic copy



CARIN Research Webinar Series

- One hour once per month during fall & spring (~8/year)
- Two 20-minute talks each followed by Q&A
- Zoom webinar – thus all participants muted except panelists
- Webinars in English with no simultaneous interpretation
- Featuring Early Career Scientists from Central Asia as well as North American & European scientists working in Central Asia
- Announce webinars through the CARIN listserv (~700) and the LCLUC listserv

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Find recordings of the 8 CARIN Research Webinars in 2023-24 here:

<https://lcluc.umd.edu/content/gofc-gold-carin-webinar-series-2023>

Find recordings of the 8 CARIN Research Webinars in 2021-22 here:

<https://lcluc.umd.edu/content/gofc-gold-carin-webinar-series-2021-22> 16:19

International Conference of Environmental Remote Sensing and GIS (ICERS)

[Announcement](#)[Program](#)[Venue & date](#)[Keynote lecturers](#)[Committees](#)[Proceedings](#)[Sponsors](#)

Join the forefront of environmental innovation at the International Conference of Environmental Remote Sensing and GIS. This event unites global experts and enthusiasts to share the latest advancements in remote sensing and GIS technologies, offering fresh perspectives on tackling environmental challenges. Engage in rich discussions on climate change, sustainable development, and resource management. This conference is an ideal platform for collaboration and presenting your activities and research in remote sensing and GIS.



Held 11-12 July 2024, Zagreb, Croatia

In person talks from Croatia, Georgia, Germany, France, Hungary, Kyrgyzstan, Turkey, US
Online talks on YouTube from Croatia, India, Iran, Lithuania, Kazakhstan, Turkey

Under contract with SpringerNature, an open access edited book:

Recent Environmental Change in Central Asia

Edited by Geoffrey Henebry & Sagynbek Orunbaev

Series: Advances in Geographical and Environmental Sciences

manuscripts due 01NOV24; delivery to publisher 31MAY24; publication late 2024/early 2025



Questions?

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