Together4Water: Testing a Citizen Science water monitoring project in Tunisia

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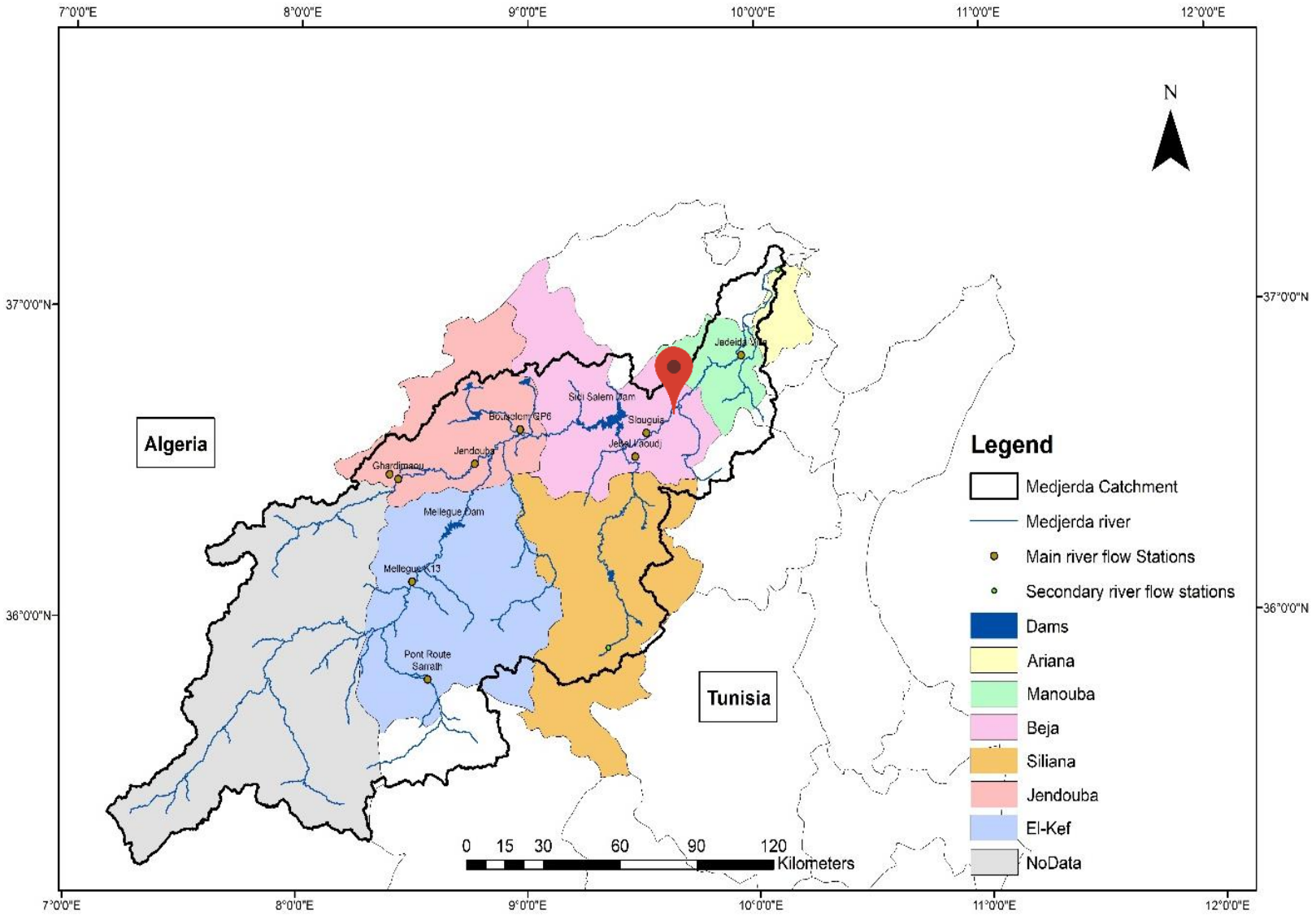
Context

- The most important River basin in Tunisia
- Socio-Economic importance (Agriculture is the main activity)
- Suffers from lack of consistent water data.
- A Citizen Science approach to be tested in order to reinforce the existing databases.

➔ What is the potential intrinsic value of water information data collected using Citizen Science (CS)-based approaches in Tunisia?



The Together4Water platform

Citizen Science tools: Smart monitoring

(Lüthi et al., 2014)

(rainlog.org, 2016)

(Velda, 2018)

Citizen Science step-by-step

Engagement of Citizens → **Field Training** → **Data Transmission**

- ✓ Students of ESIM
- ✓ Everyday citizens

Discharge app: Sites creation

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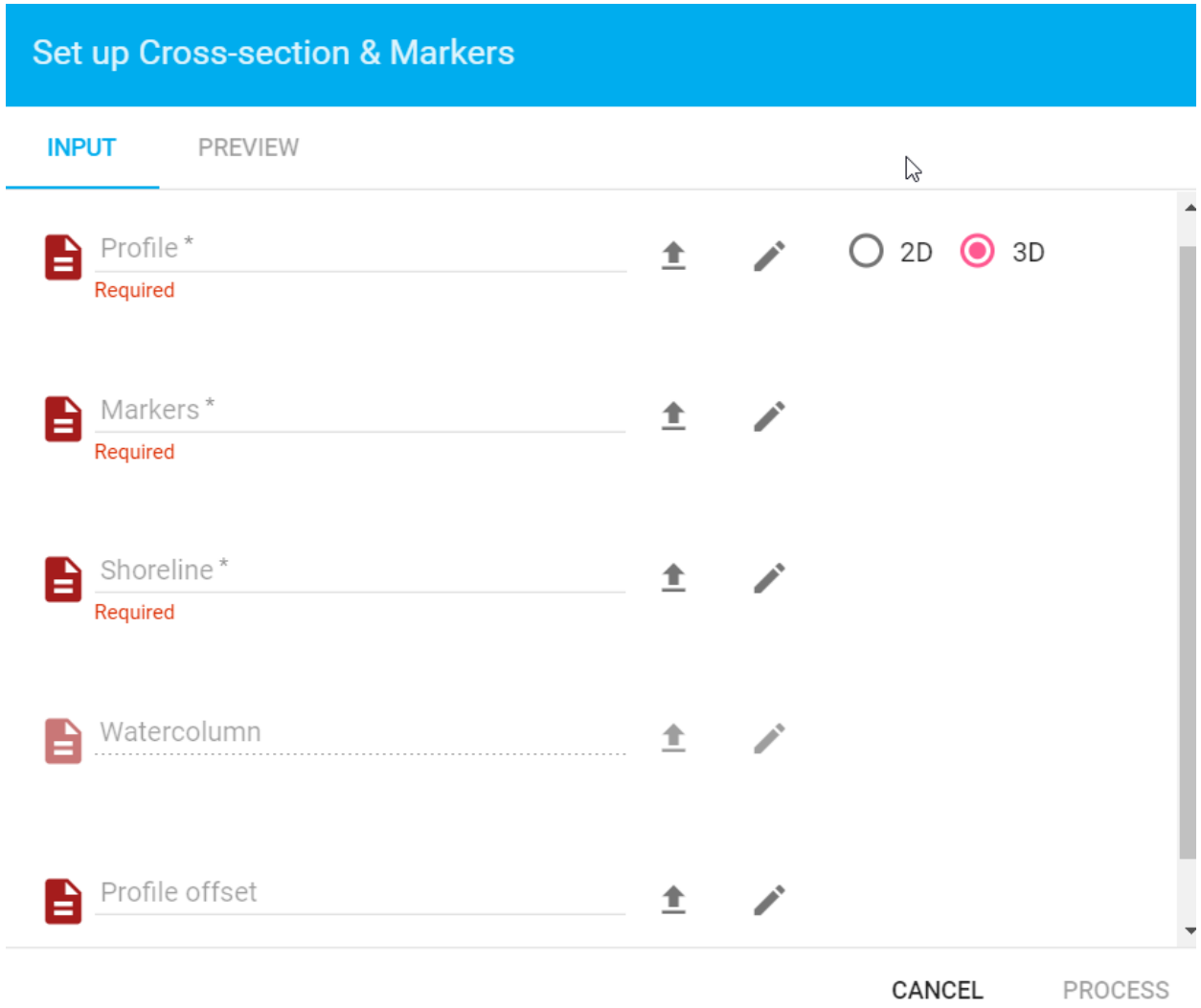
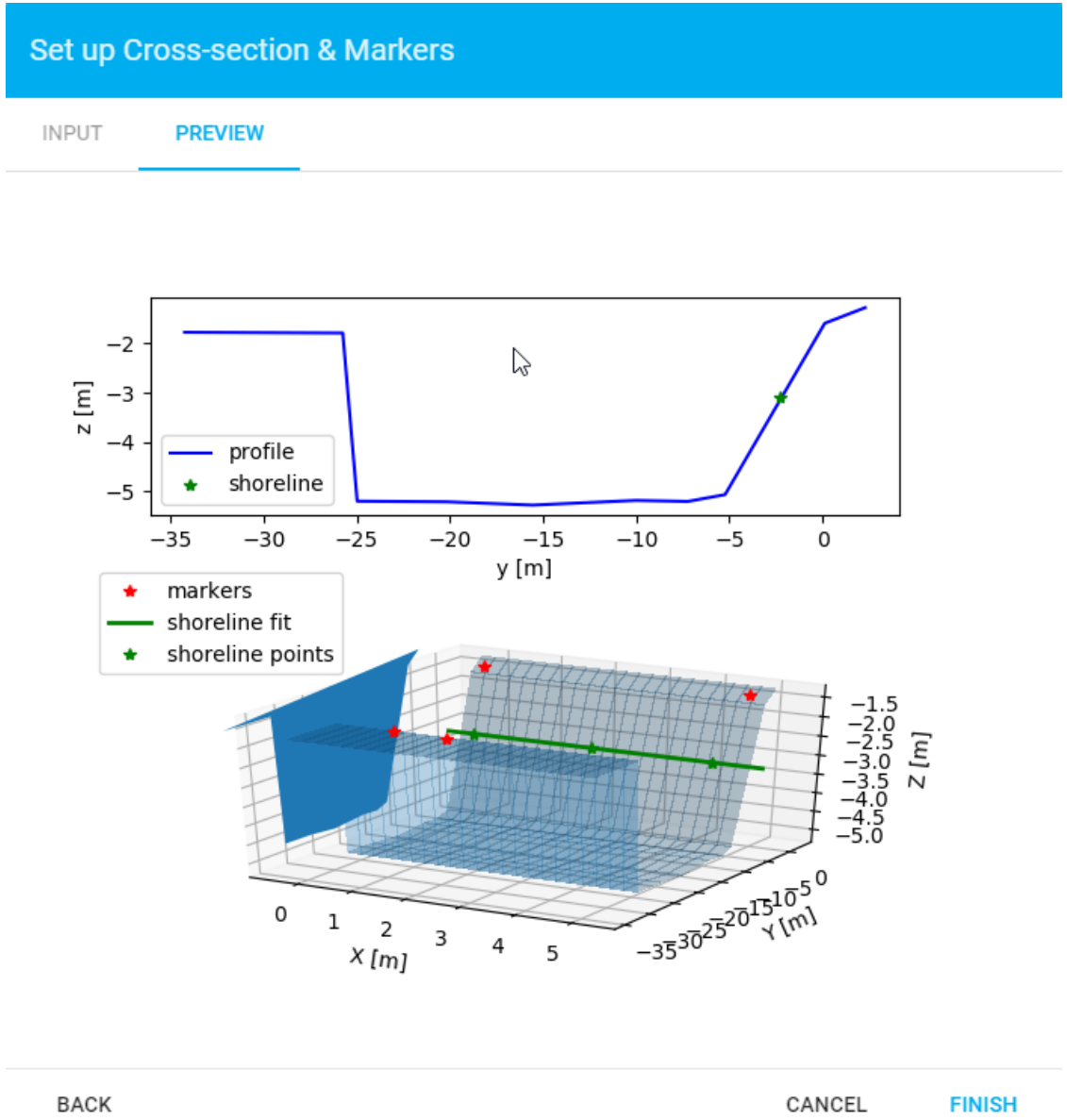


Discharge app: Sites creation



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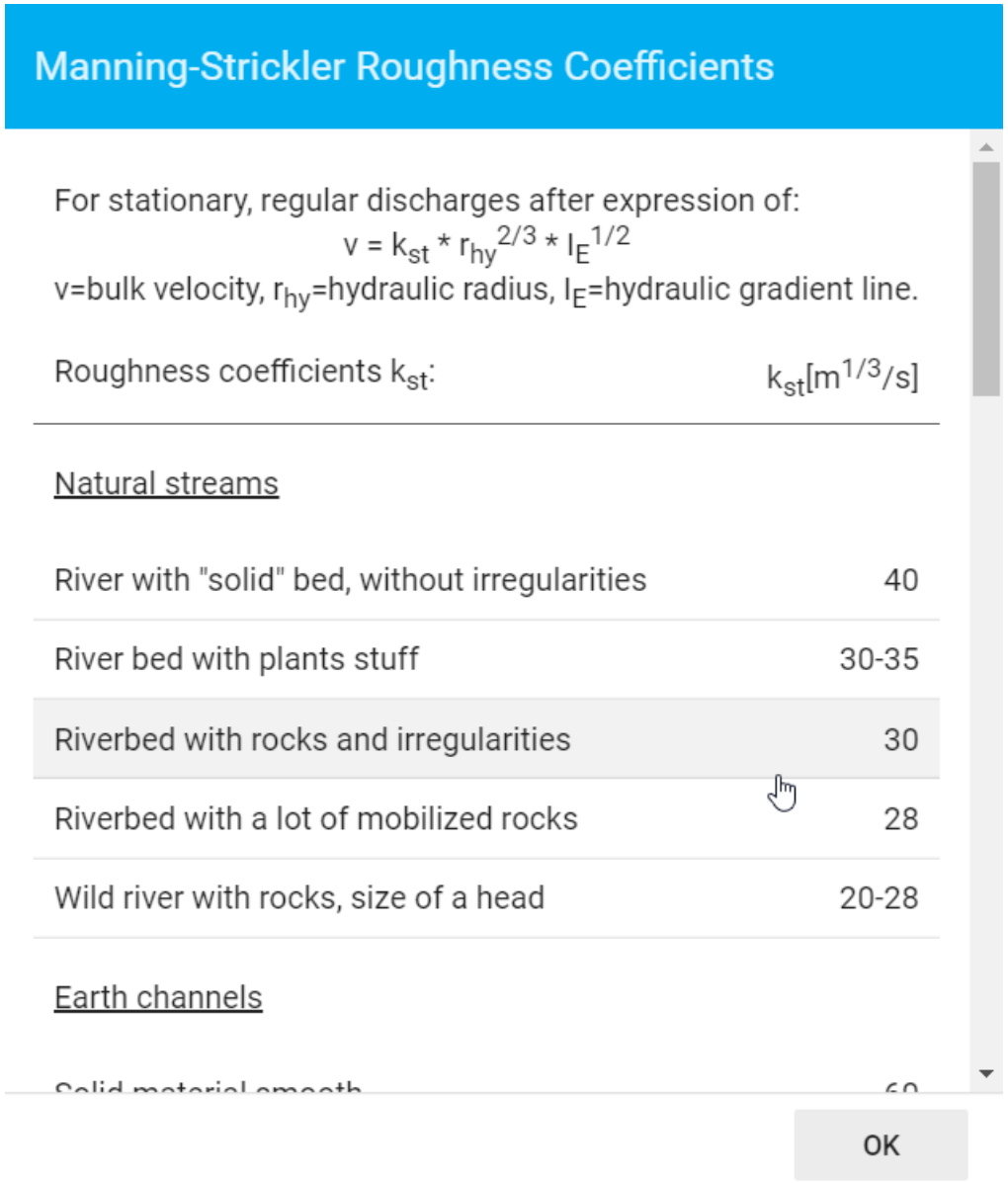
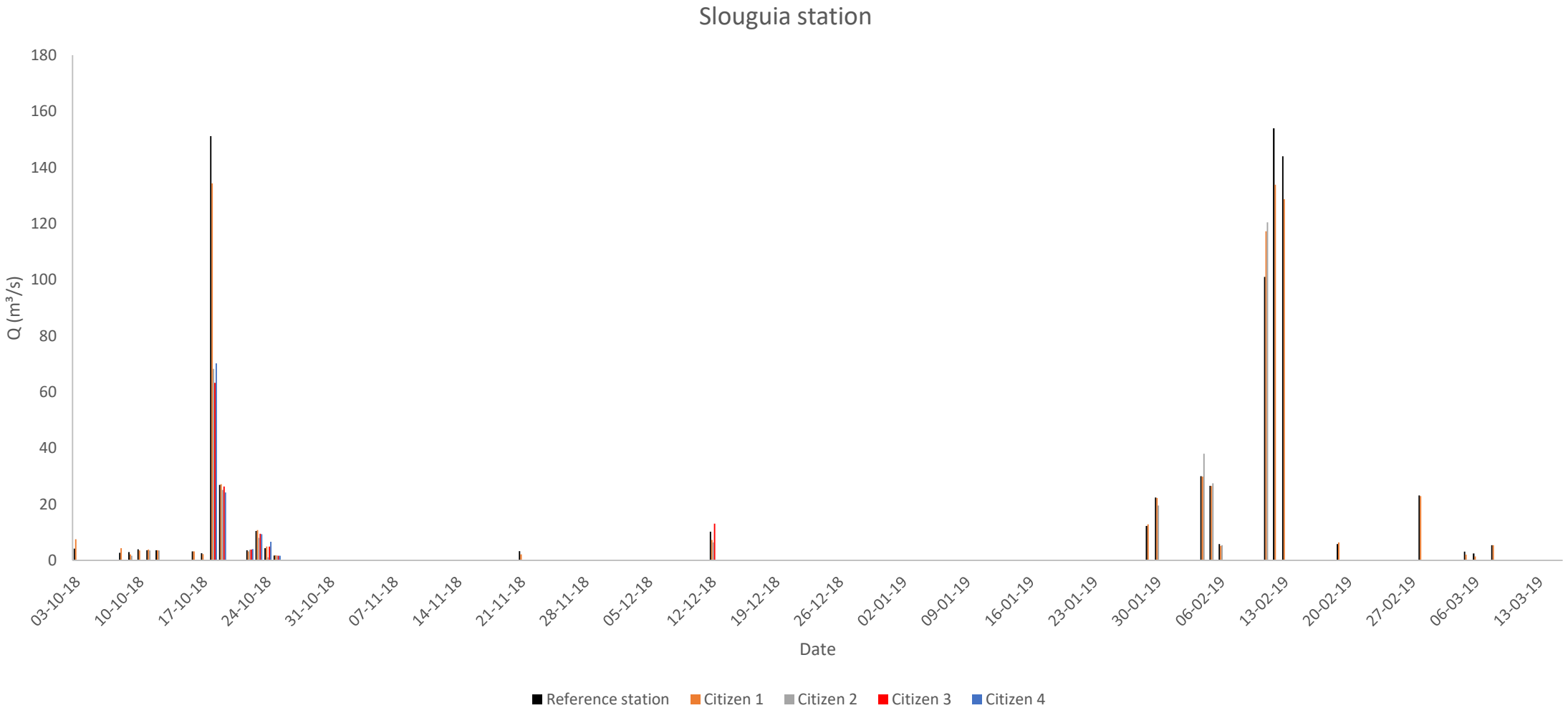


Discharge app: Variability between citizens



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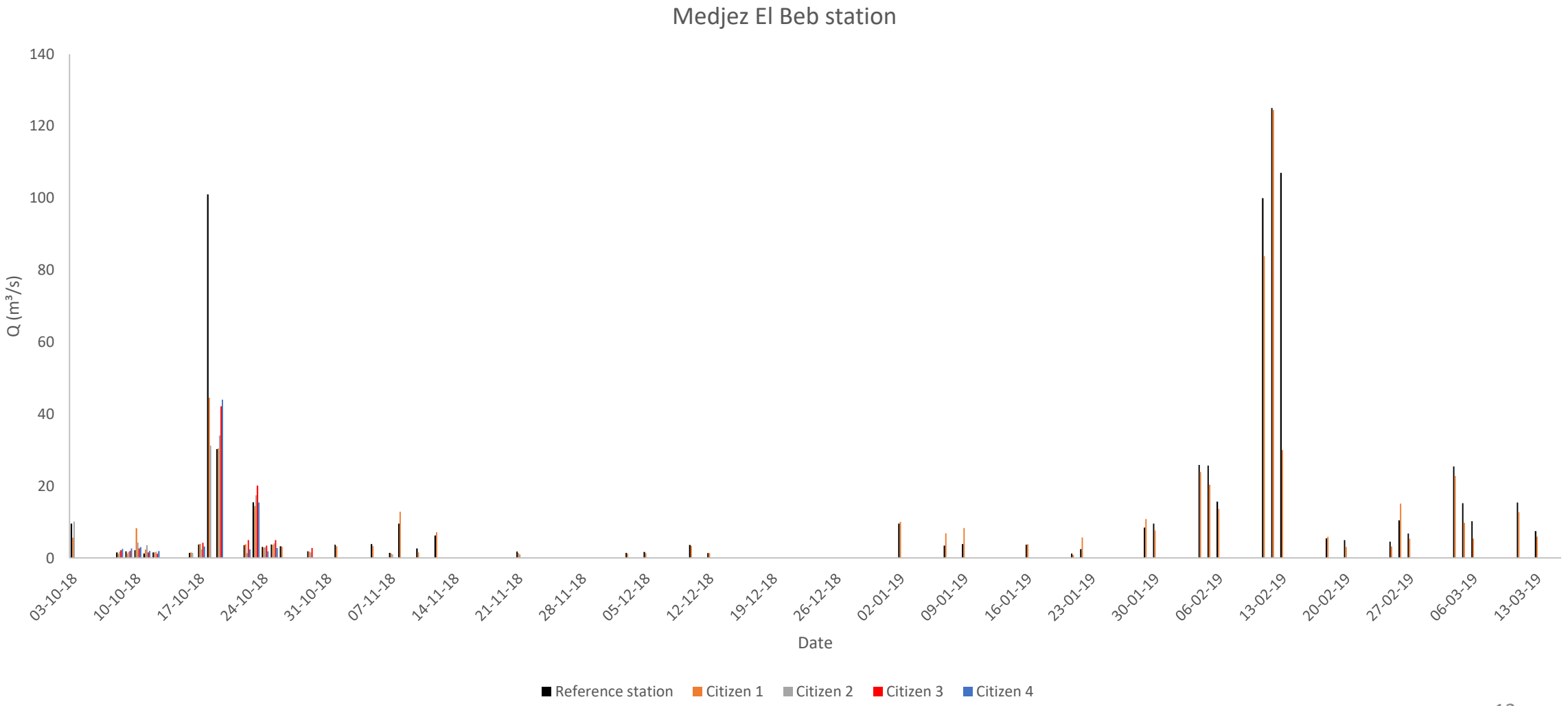
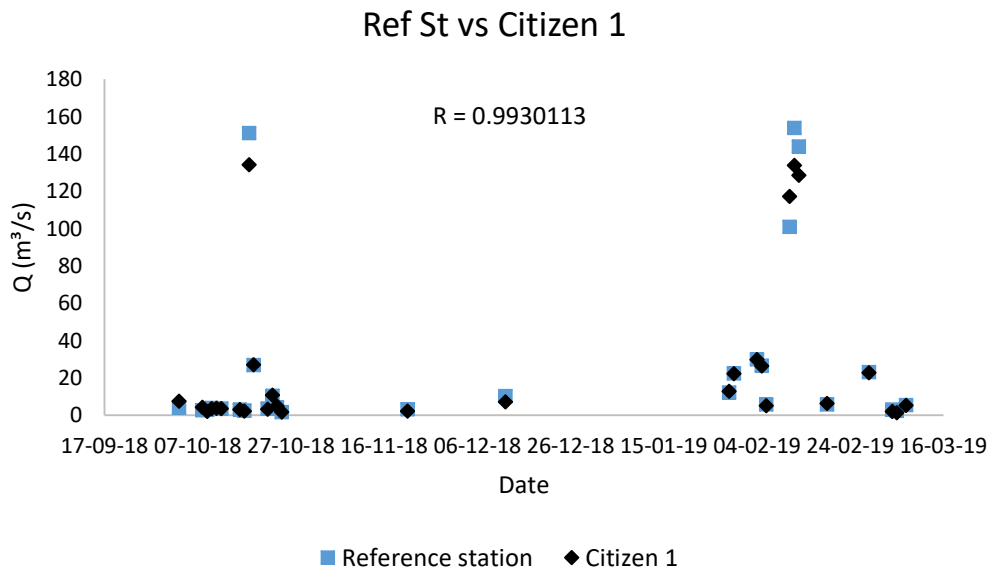
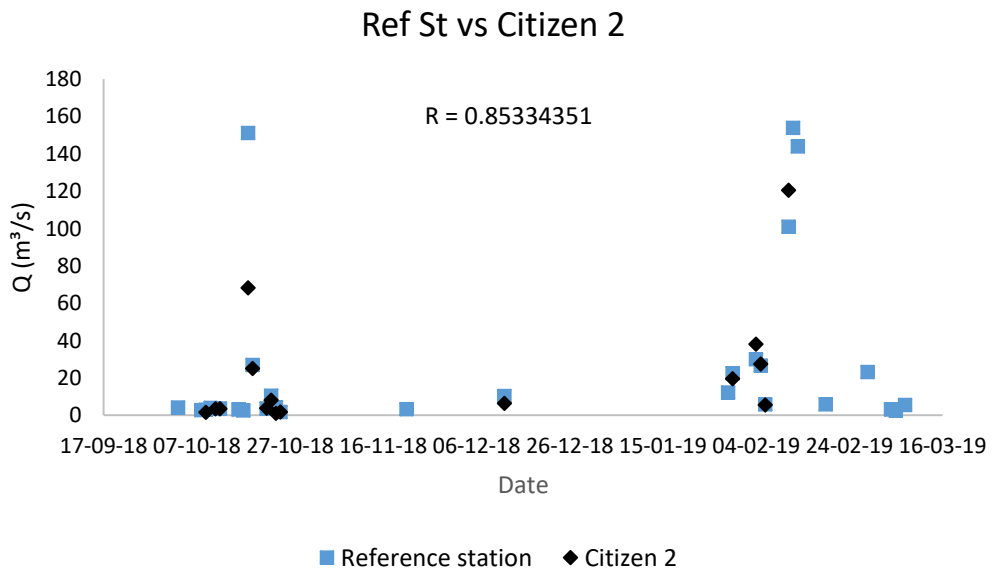


Discharge app vs Reference data

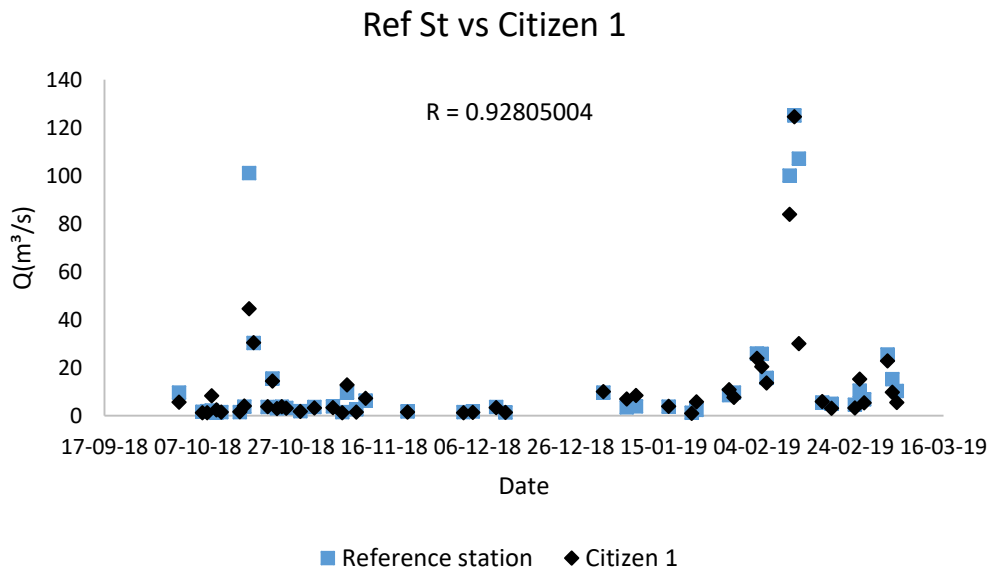
Slouguia Station

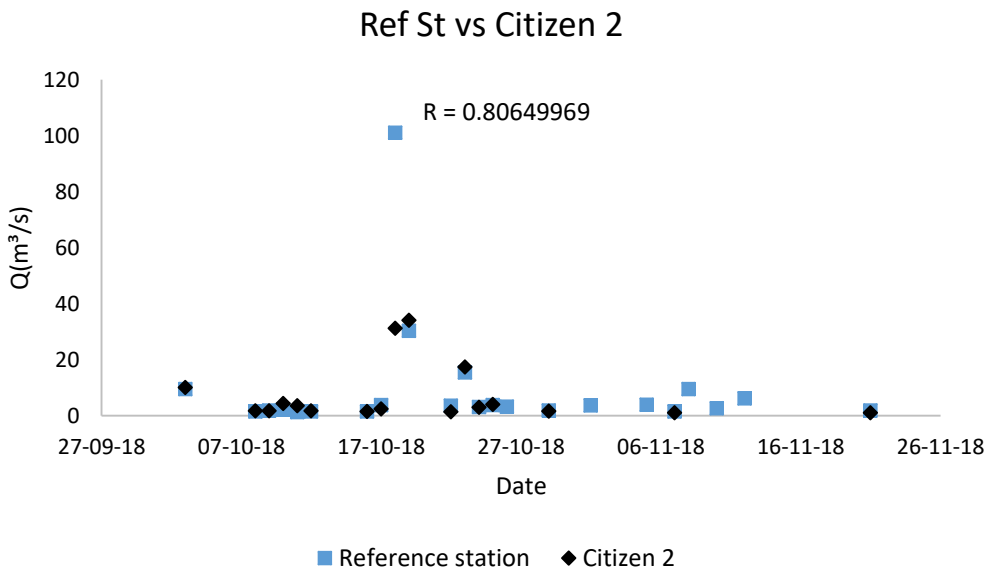




Discharge app vs Reference data

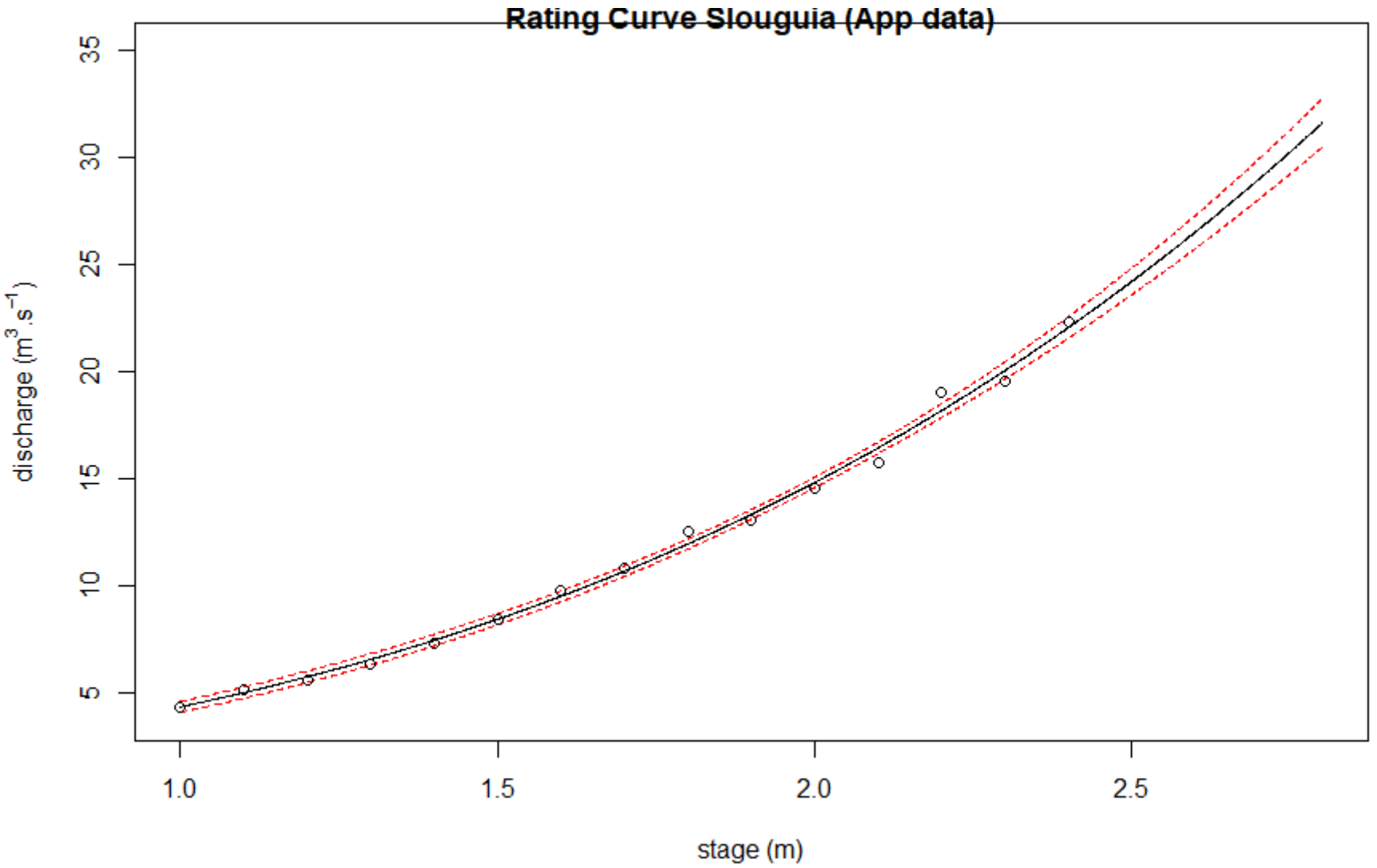
Medjez El Beb Station





Discharge app: Rating Curves

Slouguia Station (App data)



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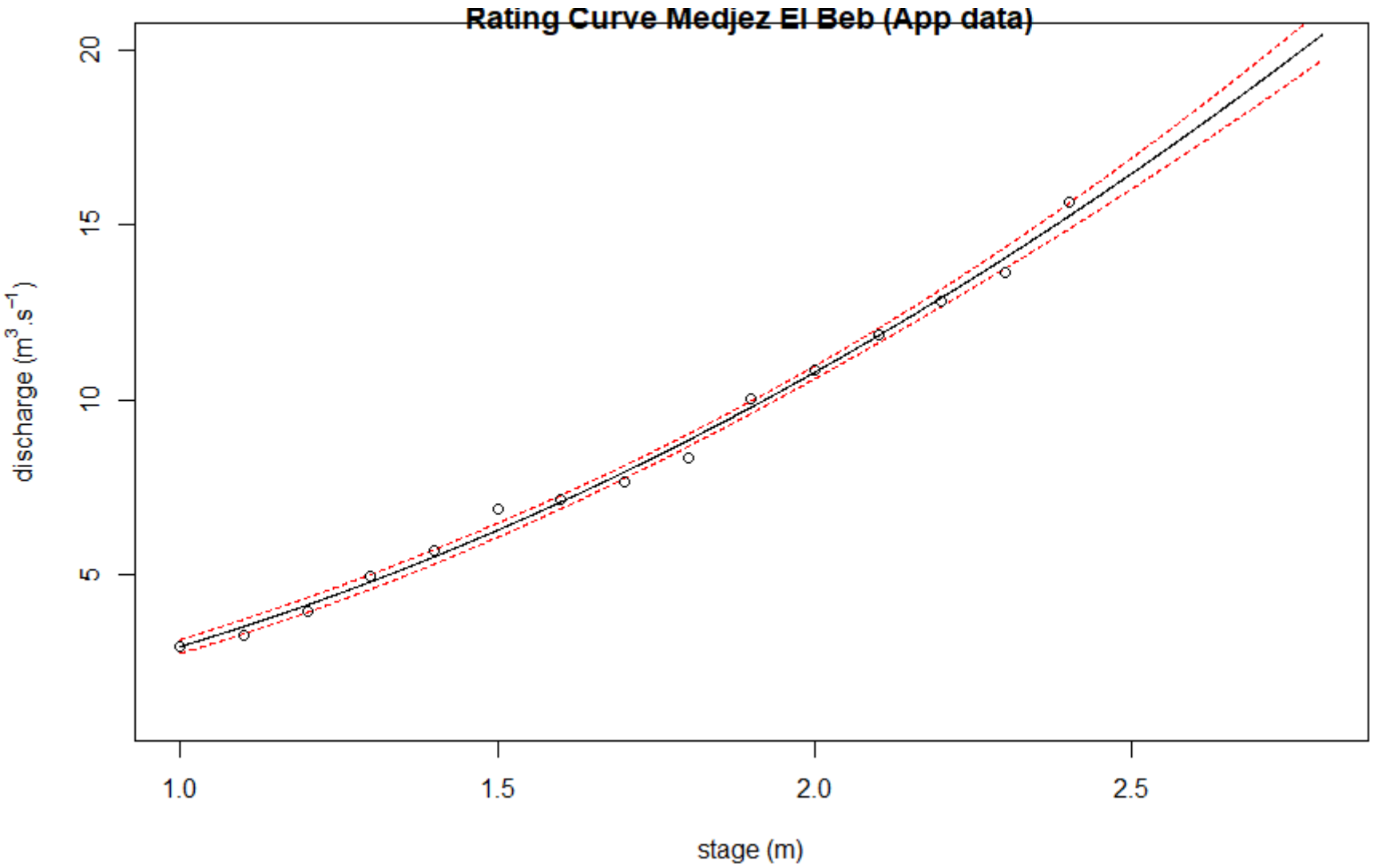
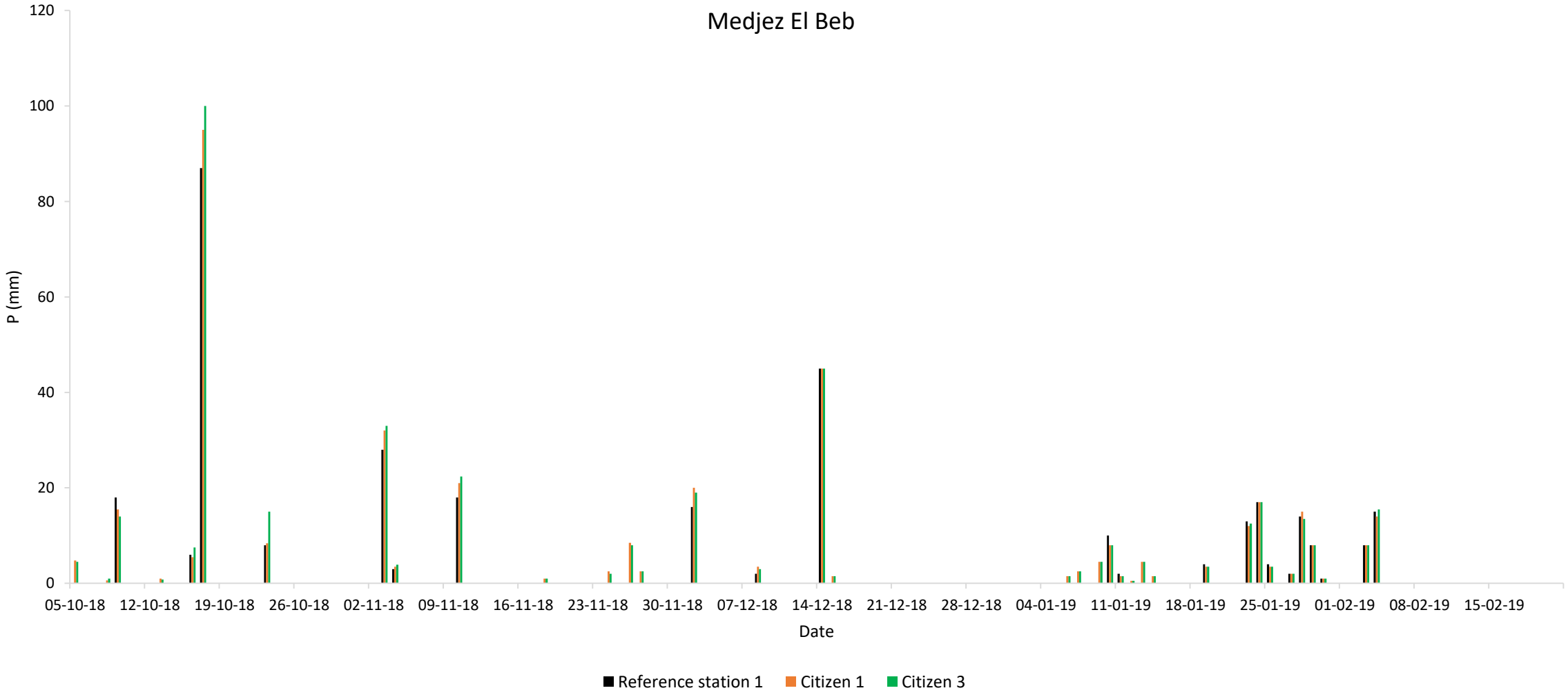
Medjez El Beb Station (App data)



Precipitation: Sites location

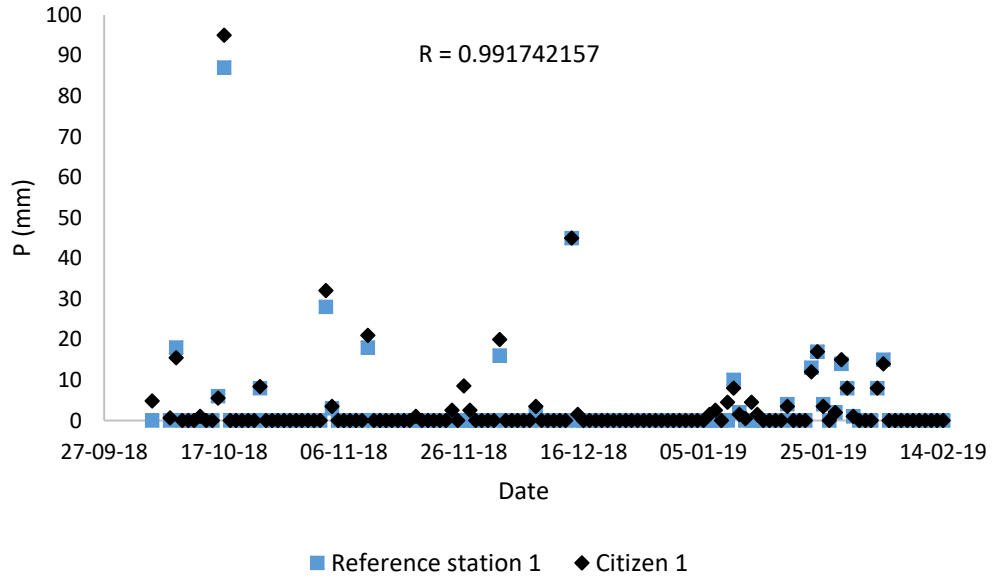
Precipitation: Sites preparation

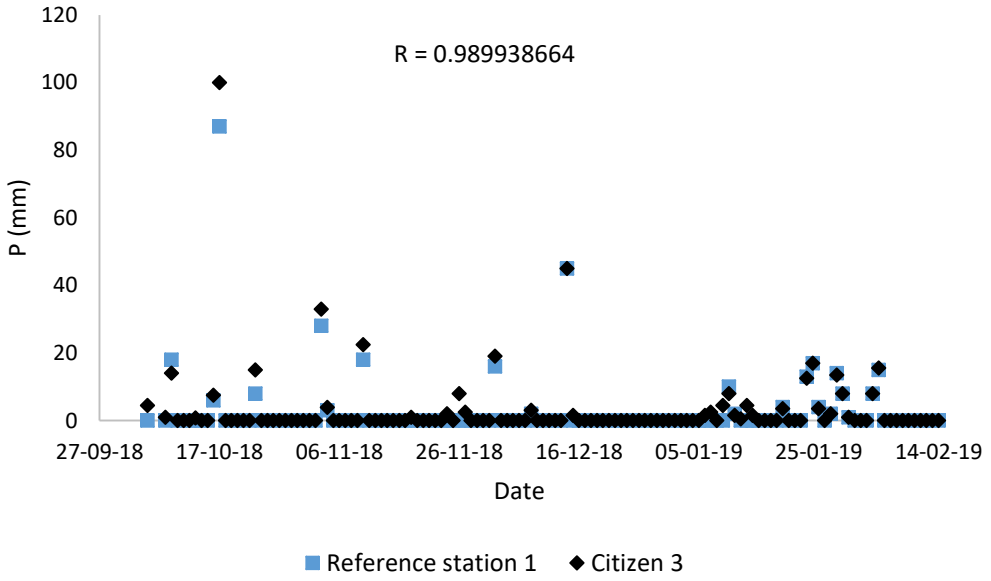
Precipitation: Variability between citizens



Citizen Science data vs Reference data

Medjez El Beb Stations





Conclusion

- The first Citizen Science mission in Tunisia and North Africa was successful and brought an innovative data collection approach by engaging a group of highly motivated citizens in the region of Medjez El Beb.

- The participation rate was significant, 90% of the engaged citizens participated in all of our activities.

- Citizen Science data showed good agreement with the reference data in all sites.

Thank you!