



lake[®]
watch



CHANAKYA[™]
UNIVERSITY
Rooted in ideals • Ascending with Ideas

Centre for
Sustainability

SPACE BASED LAKE MONITORING SYSTEM

Chanakya Lake Watch System (CLaWS)

Space technology for near real-time lake monitoring

Turbidity



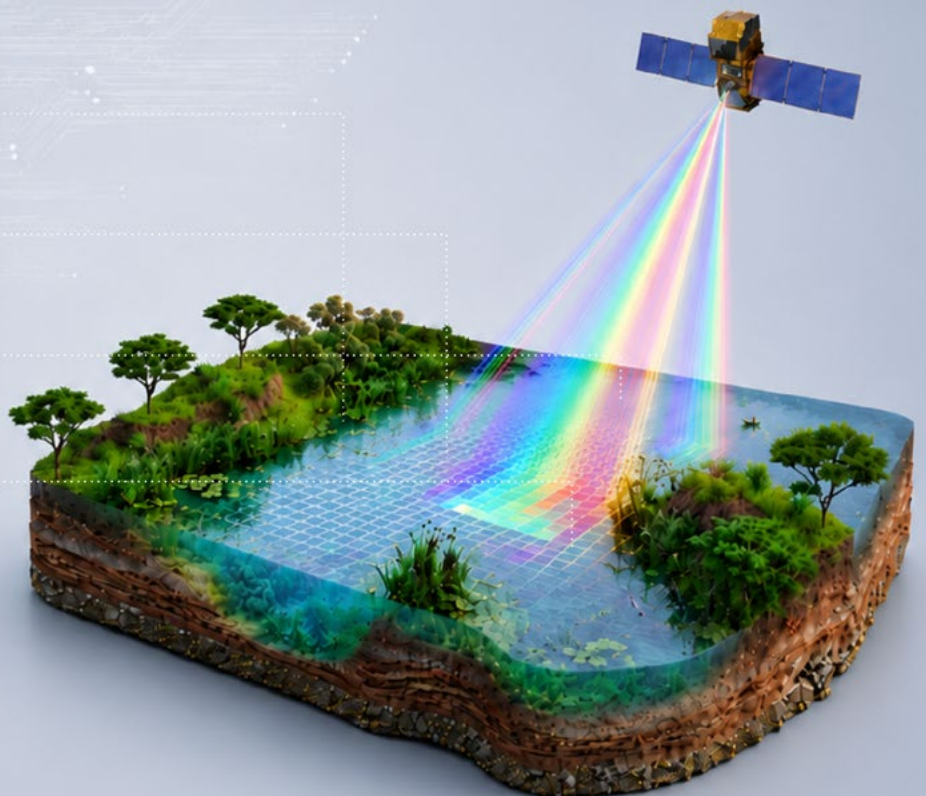
Suspended
Sediments



Dissolved Organic
Matter



Maximum
Chlorophyll-a





CHANAKYA
UNIVERSITY
Rooted in ideals • Ascending with ideas

LakeWatch Geoportal Release Note

Description: The Centre for Sustainability at Chanakya University is proud to announce the launch of the Chanakya Lake Watch System (CLaWS)—a pioneering geospatial decision-support platform for Lake monitoring in the peri-urban areas of Bengaluru.



Centre for Sustainability

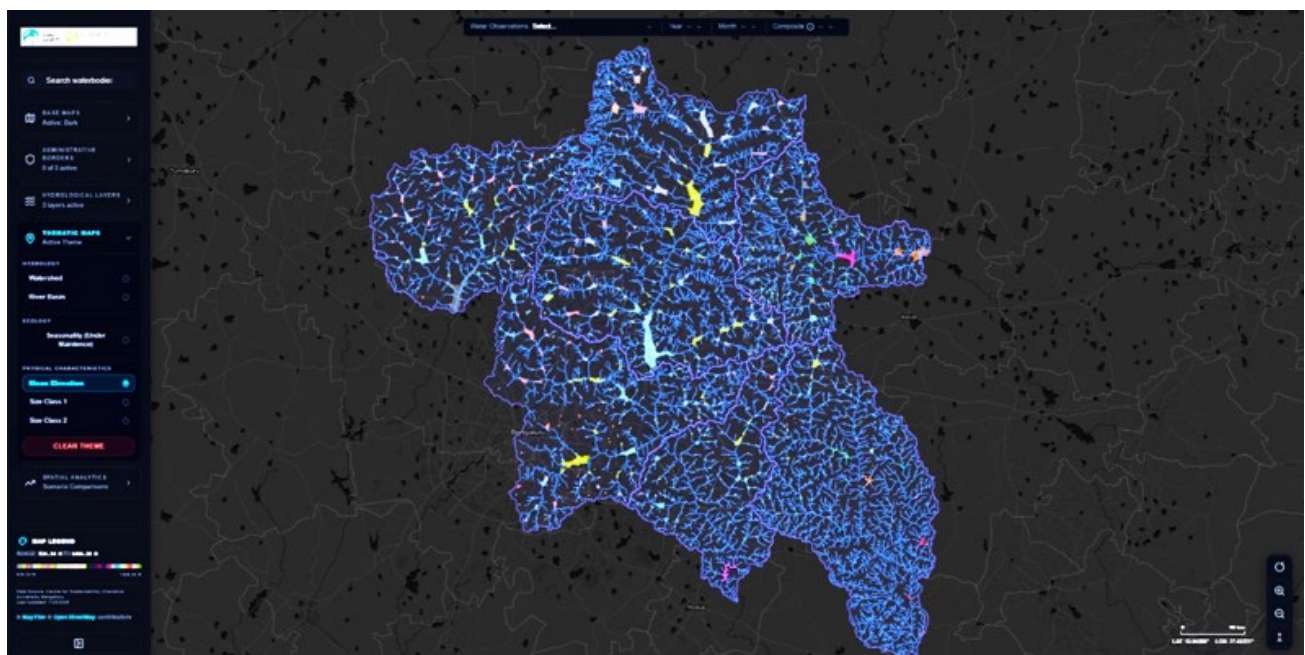
Chanakya Lake Watch System (CLaWS)



**lake[®]
watch**
Sensing the Pulse of Blue
Landscapes for Sustenance

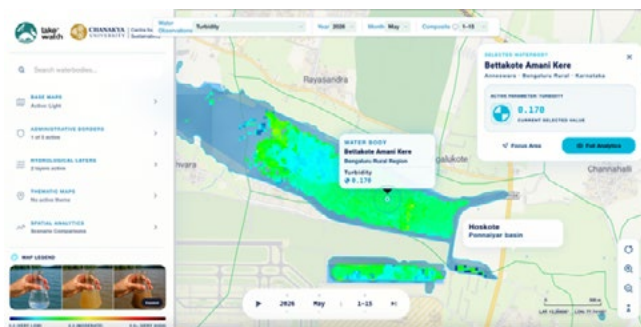


The initiative enables near real-time monitoring of water quality, using space based multispectral images, across more than 3,500 lakes and water bodies in about 4500 sq km area around Hoskote.

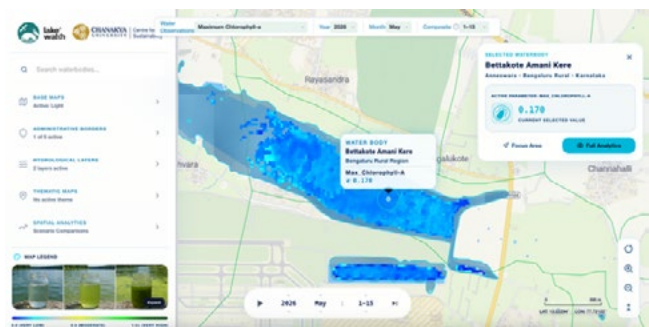


As a pilot initiative, CLaWS is focused on the Hoskote peri-urban watersheds, one of Bengaluru's rapidly urbanising regions, where changing land-use patterns increasingly impact freshwater ecosystems. Built on a decade of satellite-derived observations (2016 onwards) drawn from Copernicus platform, the Geospatial tool provides fortnightly updates on four critical indicators of water quality:

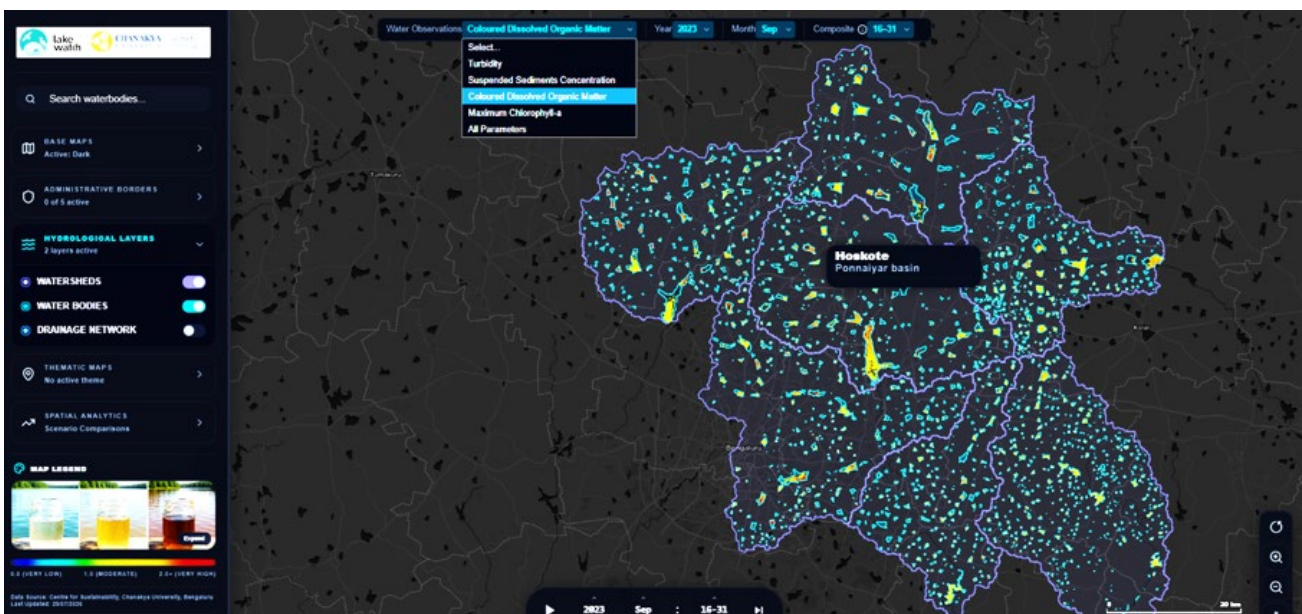
- Turbidity
- Suspended Sediment Concentration (SSC)
- Chromophoric Dissolved Organic Matter (CDOM)
- Maximum Chlorophyll-a



Turbidity levels in Bettakote Amani Kere



Vegetation infestation-Bettakote Amani Kere



Lakes/ Waterbody pollution in any selected lakes

Unlike conventional monitoring methods, CLaWS combines space-based Earth observation with an intuitive WebGIS platform to deliver continuous, large-scale environmental intelligence. The platform empowers policymakers, researchers, environmental agencies, Gram Panchayats, conservation organisations, CSR partners, and citizens with accessible, data-driven insights to support evidence-based lake conservation, pollution mitigation, and sustainable water resource management.



This pilot marks the beginning of a broader vision to extend continuous water quality monitoring across Bengaluru and its surrounding regions, strengthening scientific research, public awareness, and collaborative environmental stewardship.

Explore the Chanakya Lake Watch System (CLaWS) and monitor lakes around Hoskote using our interactive WebGIS Geoplatfrom:

Platform Link: <https://lakewatch.chanakyauniversity.edu.in>