

New name, new strategy

- Klimadatastyrelsen Agency for Climate Data
 - > The new name reflects the tasks that the agency performs and the value that the agency's work creates for society.
 - As a society, we face a wide range of challenges related to climate adaptation, the green transition, and security.
 - > Data and digital solutions are important contributions to addressing these challenges.
 - > The telecommunications area has been transferred to the Agency for Digital Government.





Digital Solutions

Data Foundation

In the last 10 years, we have created a foundation of high-quality data

Data Compilation

Digital Twin of Denmark

My Climate Data

Digital Twin of Roads

New CORS station in Jutland









Transition of our NTRIP solution

- Next generation real time caster based on BKG software
- Streaming NTRIP v. 2s (s for secure)
- Data available for Danish stations at ntrip.dataforsyningen.dk
- Official release of the new caster is coming 31/3 -2025
- Some Client software are not ready yet.
- NTRIPmonitor software is under development.
- Old Leica Spidernet software closed down 31/3 2025

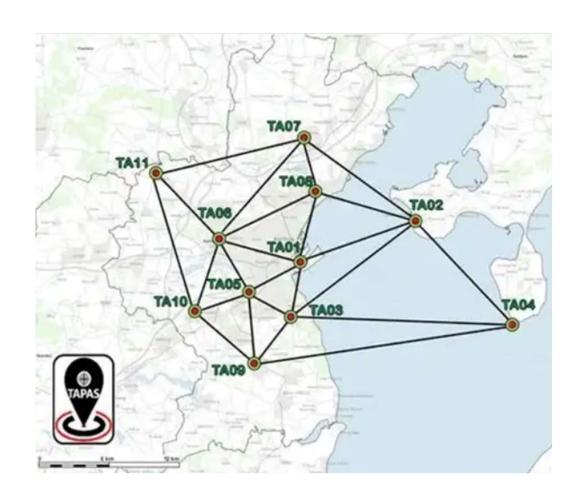


Regulation of private GNSS positioning services providers

- New guidelines is official
 - > First revision since introduction in 2008
 - > Three accuracy classes
 - § A: 1.0 cm, 2.0 cm
 - § B: 2.0 cm, 4.0 cm
 - § C: 2.5 cm, 5.0 cm
 - Coverage map
 - New control procedures using independent monitoring stations

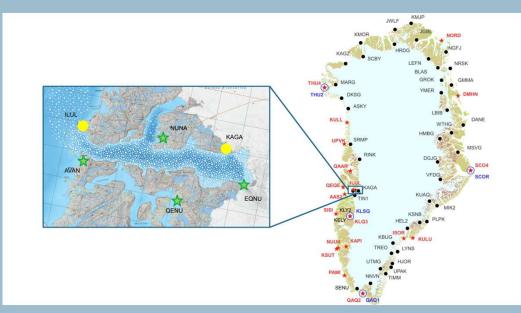
TAPAS

- TAPAS project is nearing completion
- Current strategy expires end of 2025
- TAPAS partners (Århus, DTU Space) in discussion on a derived network/project.
- TAPAS has delivered valuable insight into possibilities of the potential of sub 1 cm precision in an urban environment
- Final evaluation report to be carried out 2025



GNET

- 71 GNSS (GPS) stations along the coast of Greenland
- Fundamental geodetic infrastructure
- Maintained and developed in cooperation with DTU Space
- Expansion 2024:
 - Four stations at Ilulissat
 - > Two on the east coast
- GNET provides real time monitoring of the change in Greenland Ice sheet mass.
- Potential in water level measurement (reflectometry) and space weather monitoring.
- Data link (Iridium) uncertain. Various initiatives to maintain realtime communication is investigated
- October: Article in Nature based on GNET data



nature

Explore content Y About the journal Y Publish with us

nature > articles > articl

Article | Open access | Published: 30 October 202

Vertical bedrock shifts reveal summer water storage in Greenland ice sheet

Jangjun Ran [©], Pavel Ditmar, Michiel R. van den Broeke. Lin Liu Roland Klees, Shfaqat Abbas Khan, Tivila Moon, Jiancheng Lis Michael Bevis, Min Zhong, Xavier Fettweis, Junguo Liu, Brice Noel; C. K. Shum, Jiani Chen, Limino, Jiano & Tonie van Dam

Nature 635, 108-113 (2024) Cite this artic

11k Accesses | 111 Altmetric | Metric

Abstrac

The Greenland ice sheet (GrlS) is at present the largest single contributor to global-massinduced sea-level rise, primarily because of Arctic amplification on an increasingly warmer
Earthl-3.45. However, the processes of englacial water accumulation, storage and ultimate
release remain poorly constrained. Here we show that a noticeable amount of the
summertime meltwater mass is temporally buffered along the entire GrlS periphery, peaking
in July and gradually reducing thereafter. Our results arise from quantifying the
spatiotemporal behaviour of the total mass of water leaving the GrlS by analysing bedrock
elastic deformation measured by Global Navigation Satellite System (CrlSS) stations. The
buffered metwater causes a subsidence of the bedrock close to GrlSS stations of at most
approximately 5 mm during the melt season. Regionally, the duration of meltwater storage
ranges from 4.5 weeks in the southeast to 9 weeks elsewhere. We also show that the meltwater
runoff modelled from regional climate models may contain systematic errors, requiring
further scaling of up to about 20% for the warmest years. These results reveal a high potential
for GRSS data to constrain poorly known hydrological processes in Greenland, forming the
basis for improved projections of future GrlS melt behaviour and the associated sea-level

