For the LOV of Data

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FACE-IT
Arctic Biodiversity & Livelihoods

Work package one (WP1)

THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION
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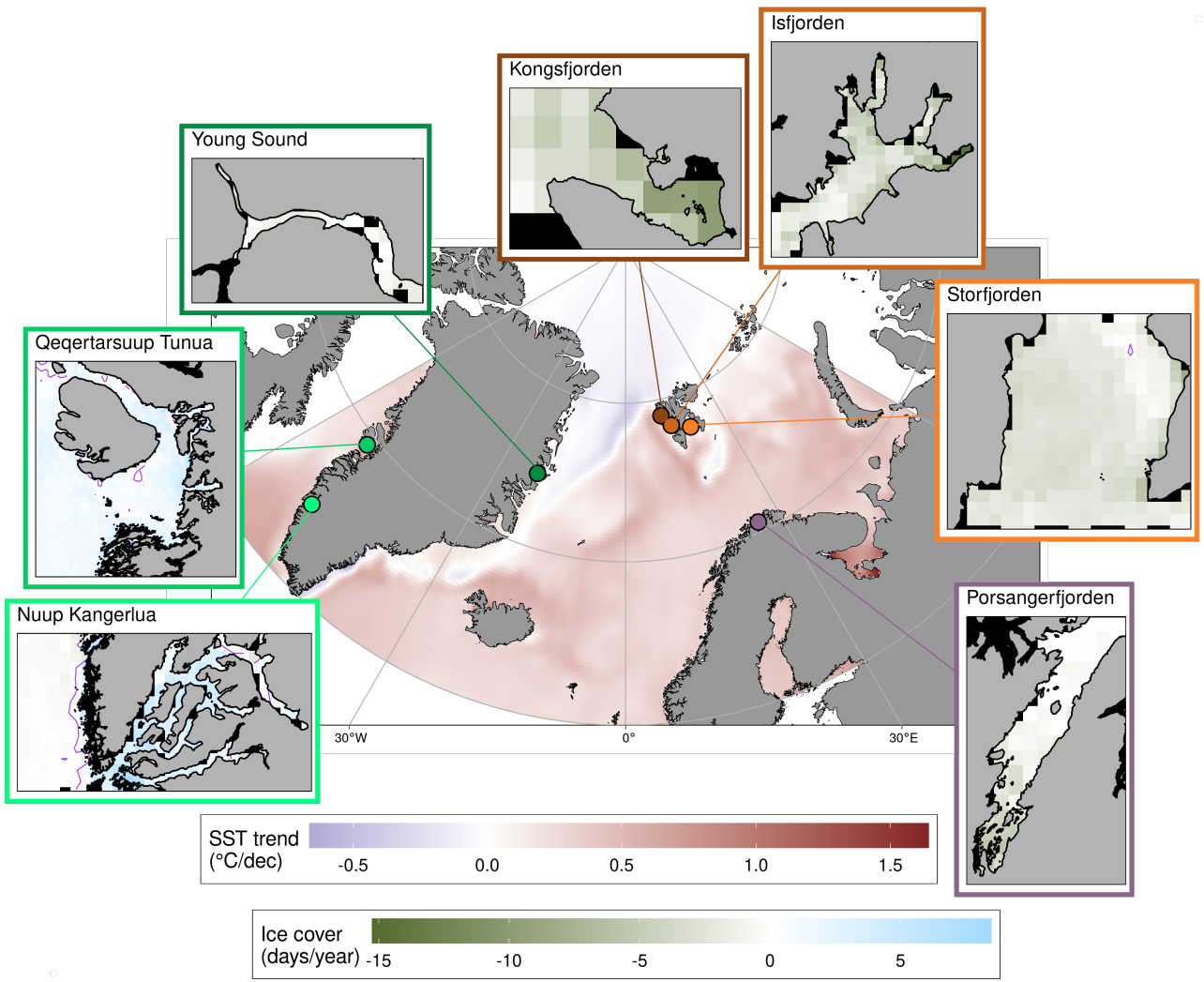
FACE-IT

Arctic Biodiversity & Livelihoods

"Identify and quantify key drivers of biodiversity changes and their past and future trends."

What do we do when we need ALL the data?

Define the sites



Define the categories

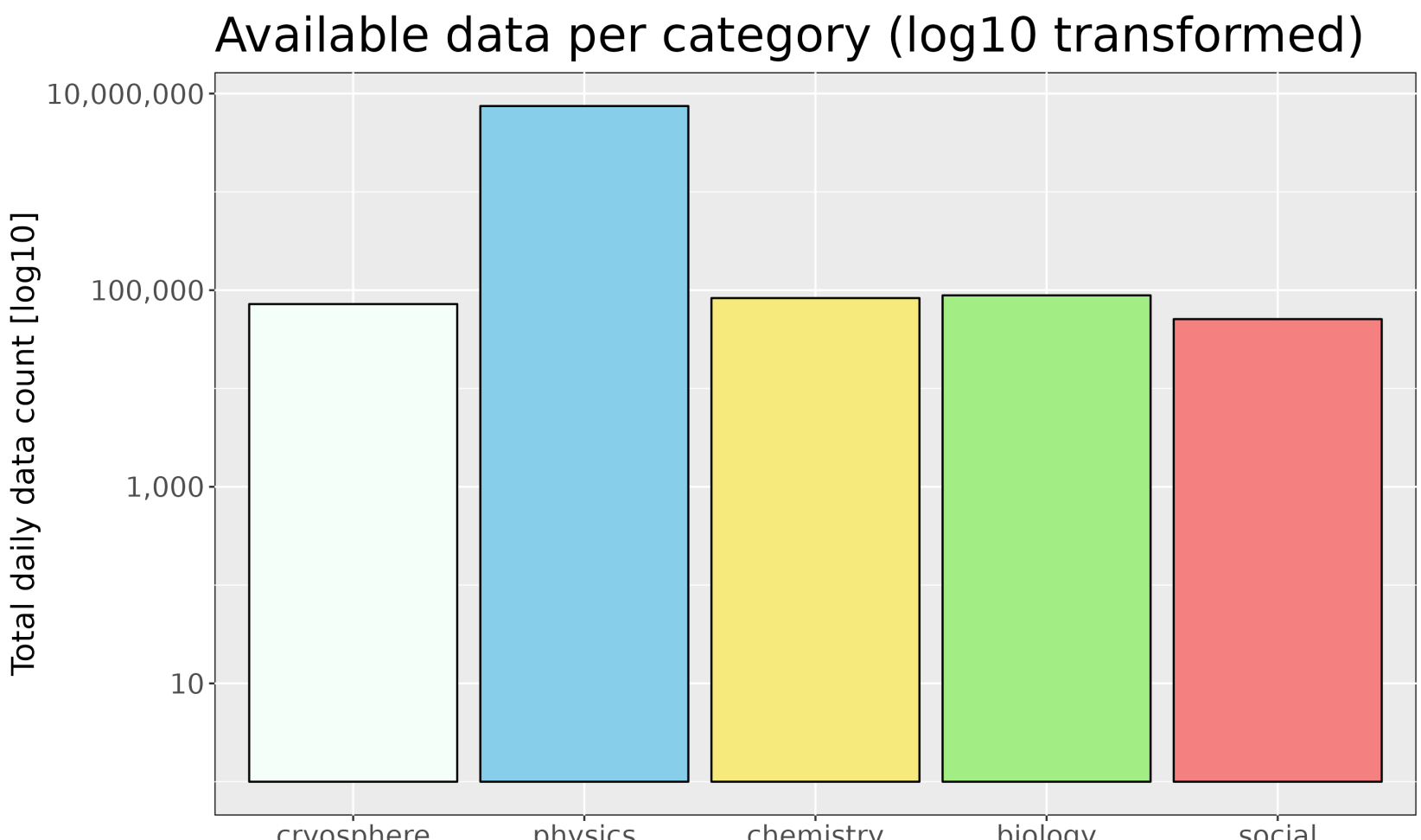
Category
Cryosphere
Physics
Chemistry
Biology
Social

Define the drivers

Category	Driver
Cryosphere	sea ice, glacier mass balance, terrestrial runoff
Physics	seawater temperature, salinity, light
Chemistry	carbonate chemistry, nutrients
Biology	primary production, biomass, species richness
Social	governance, tourism, fisheries

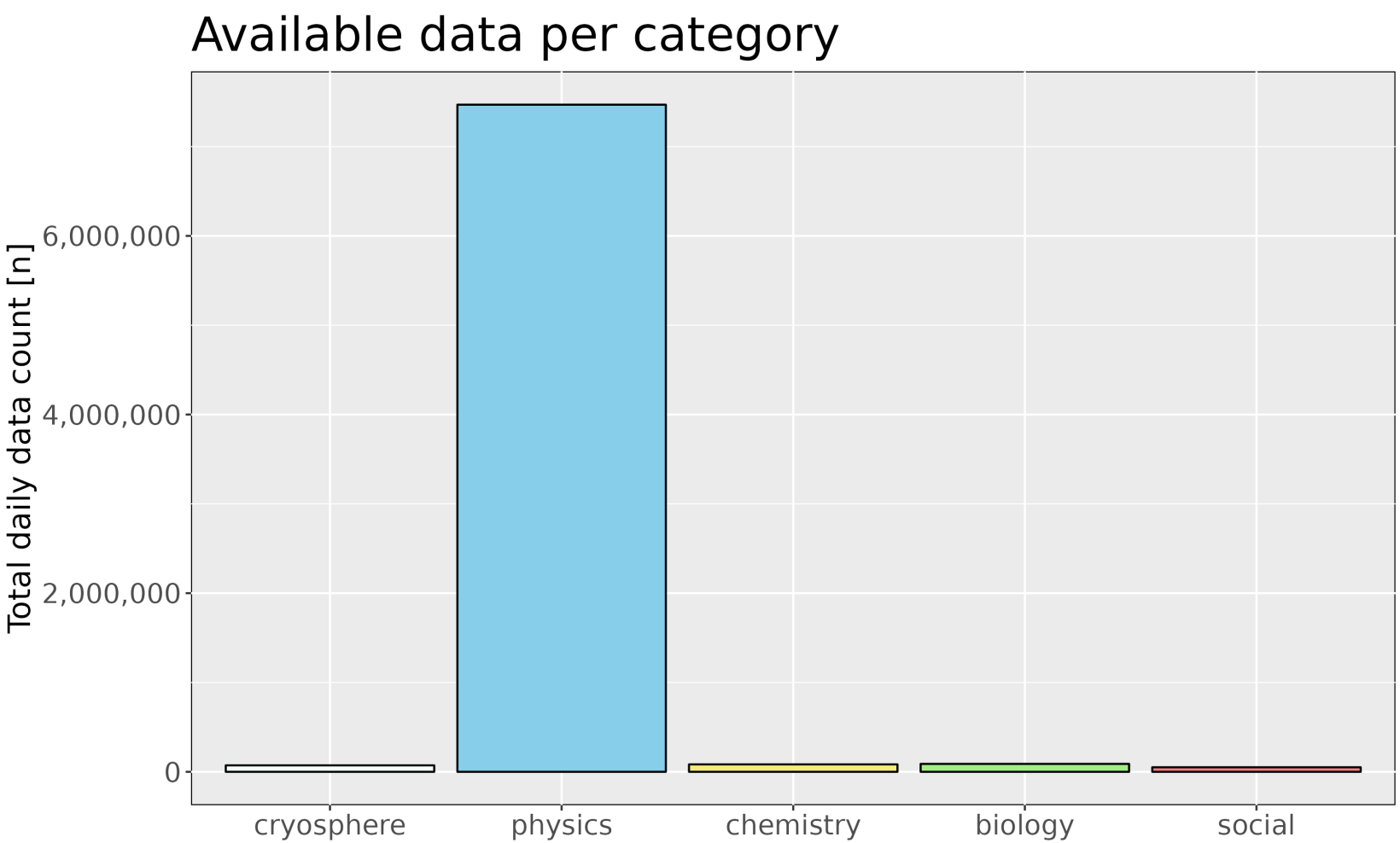
Data by category

Most available data are physical.



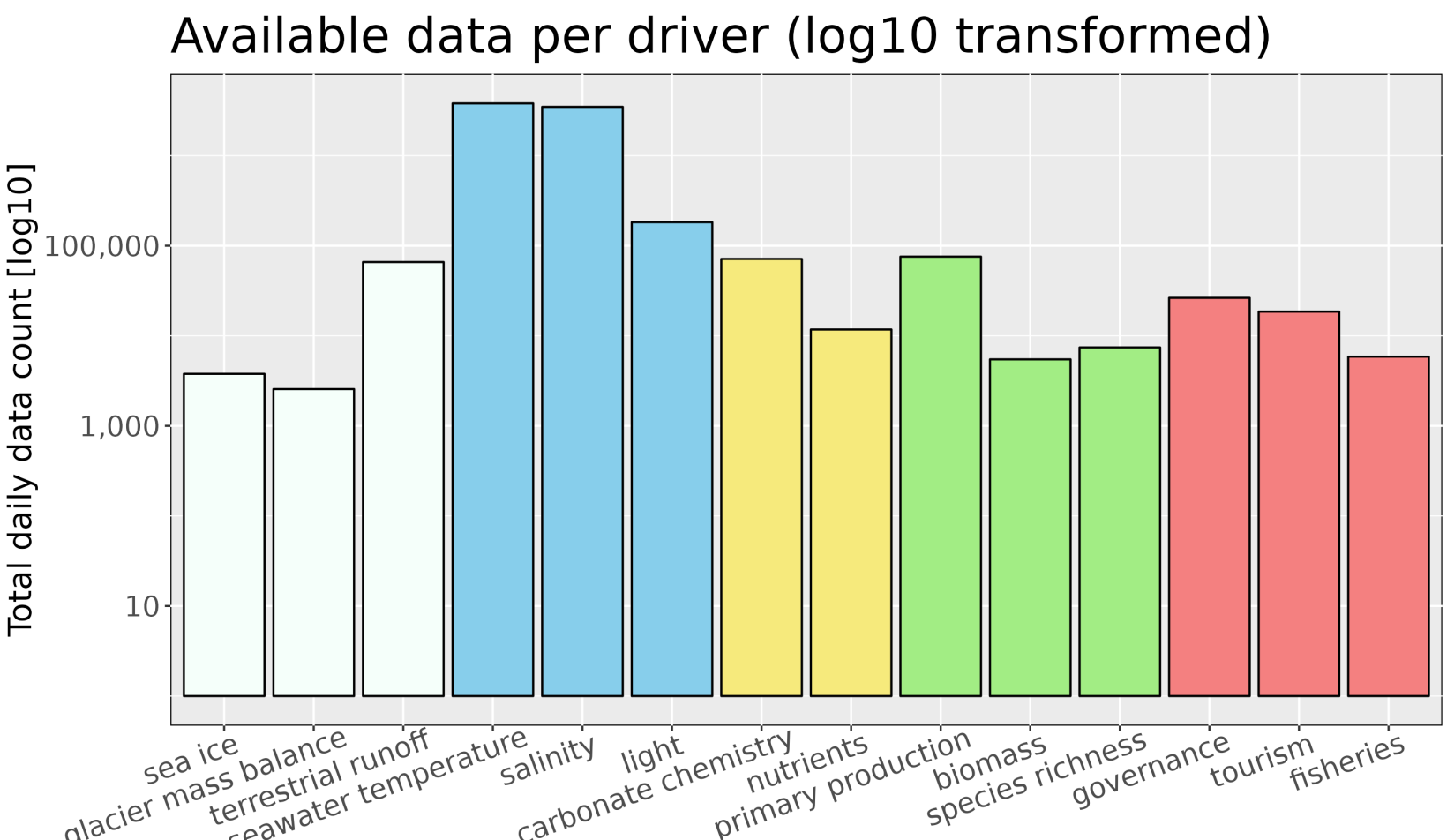
Data by category

Without log10 transformation.



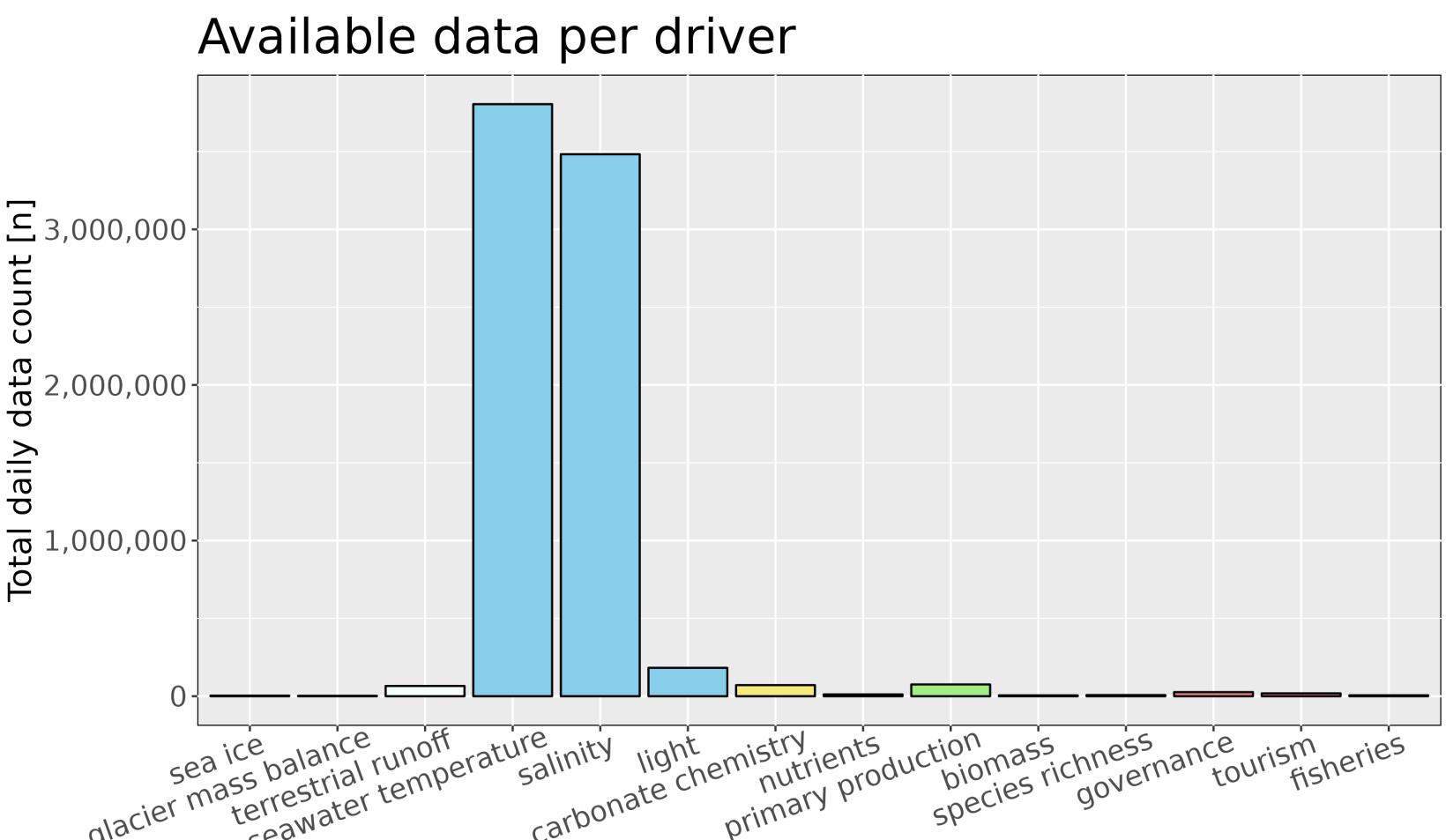
Data by driver

Differences between drivers.



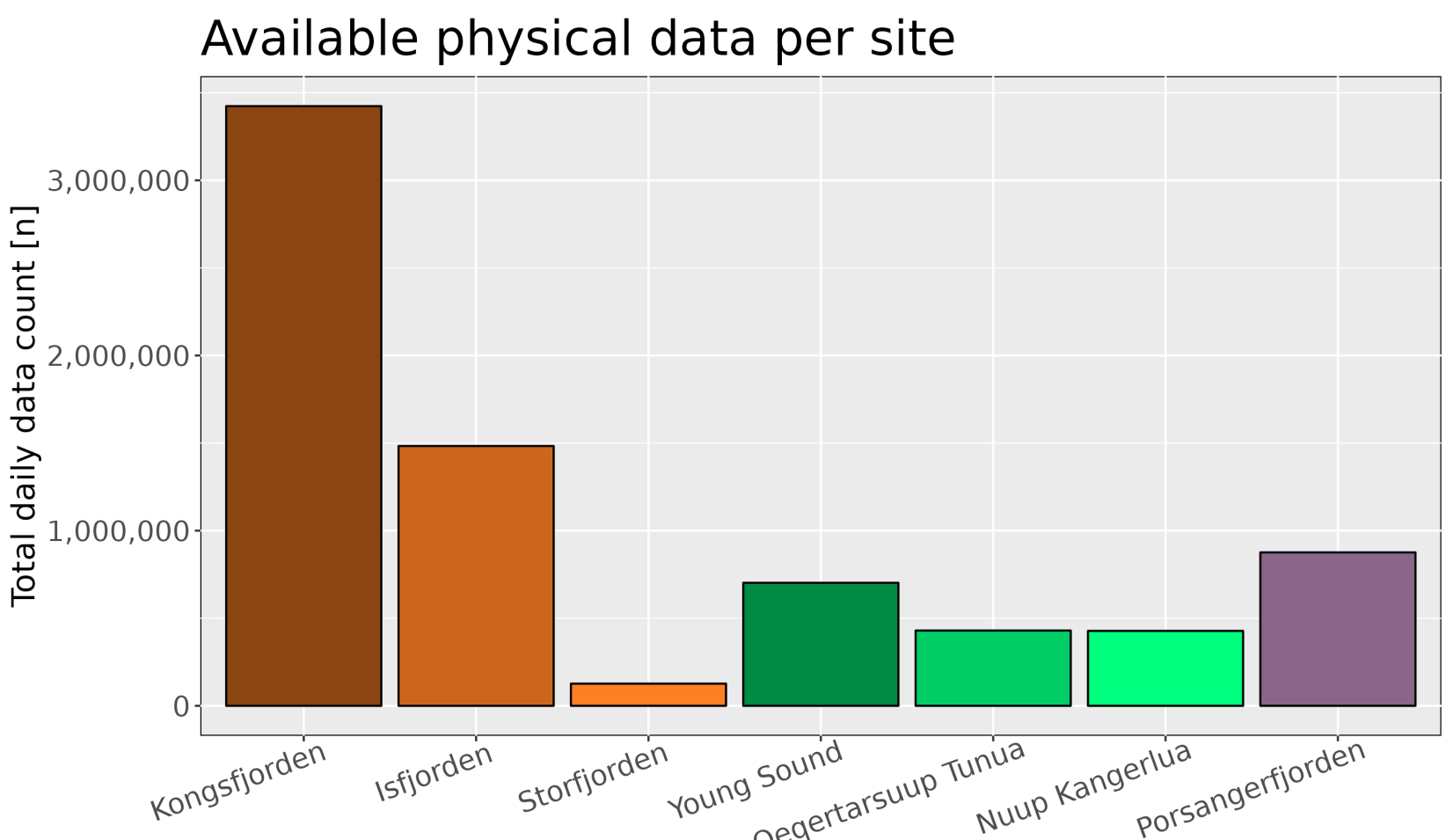
Data by driver

Note again the difference when not log10 transformed.



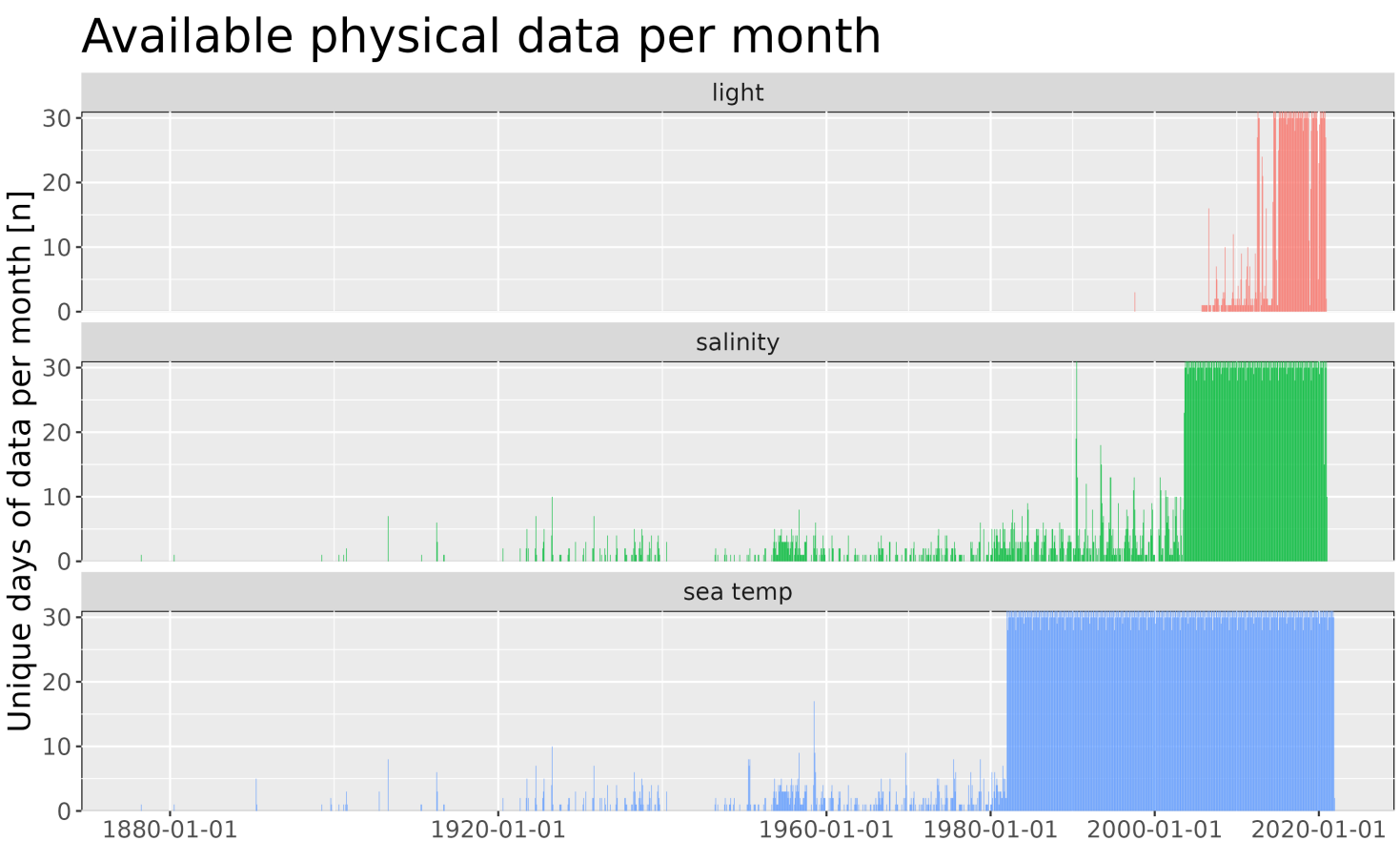
Data by site

Large difference between sites.

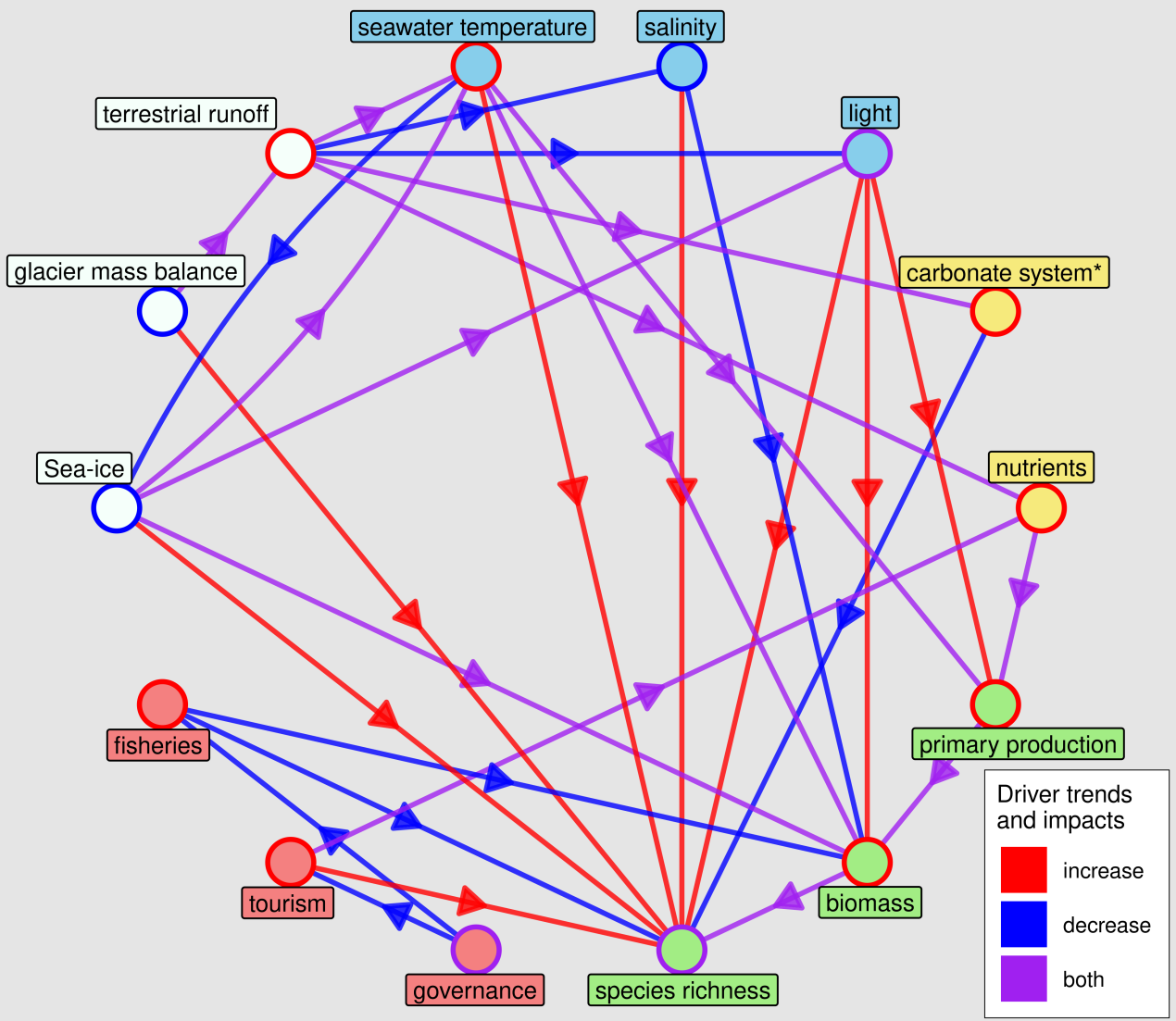


Data by date

Regular temperature measurements start in ~1980's, salinity ~2000's, light ~2010's.



Interactions



Conclusions

- Most data are physical (temperature+salinity)
- Large difference between sites
- Most data start in ~2000’s to 2010’s
- These data area available via the portal
- Focus now is on adding data from under-represented categories and sites

Merci pour votre attention

<- WP1 GitHub page

Meta-database ->

<- WP1 homepage

Data access app ->