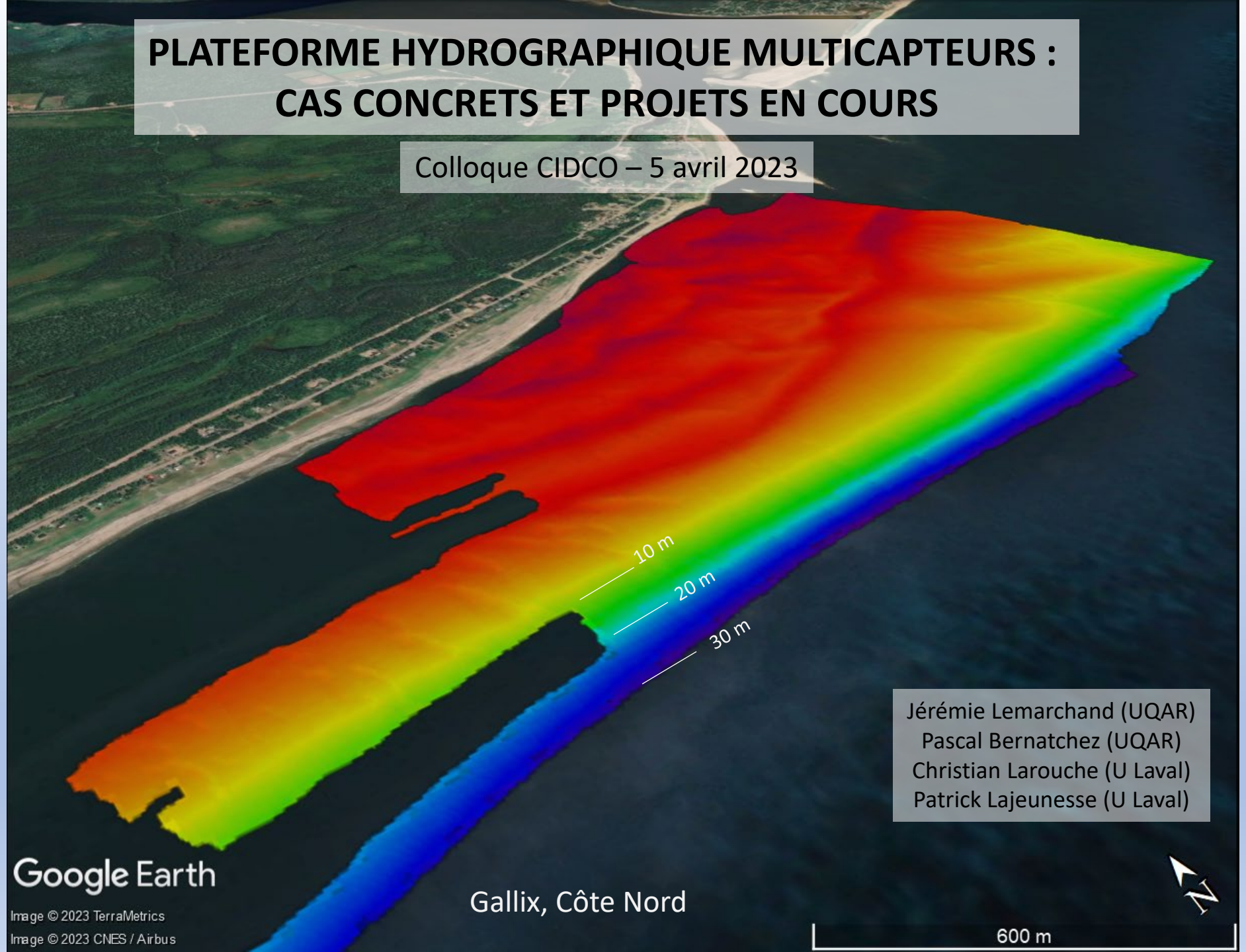
PLATEFORME HYDROGRAPHIQUE MULTICAPTEURS : CAS CONCRETS ET PROJETS EN COURS

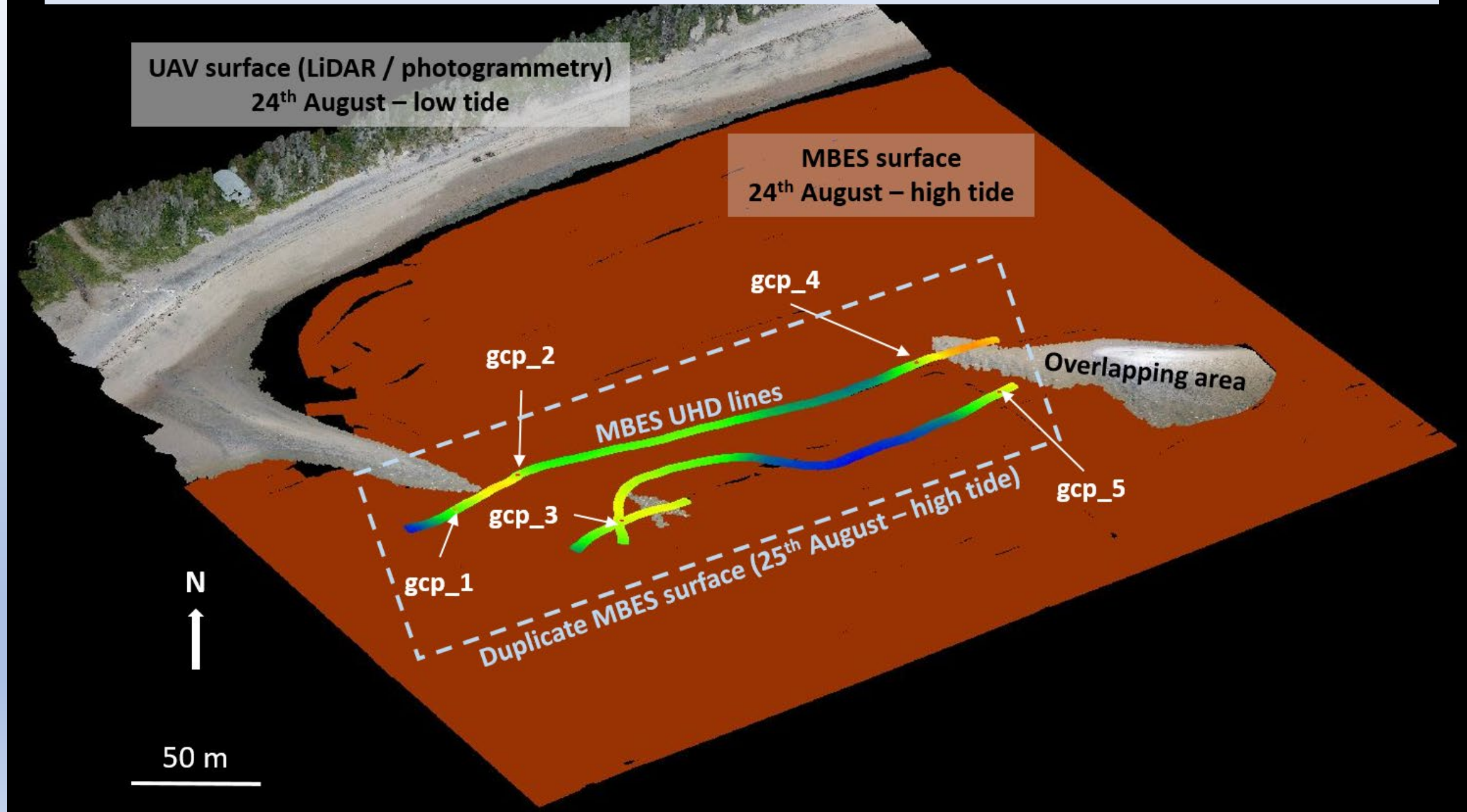
Colloque CIDCO – 5 avril 2023

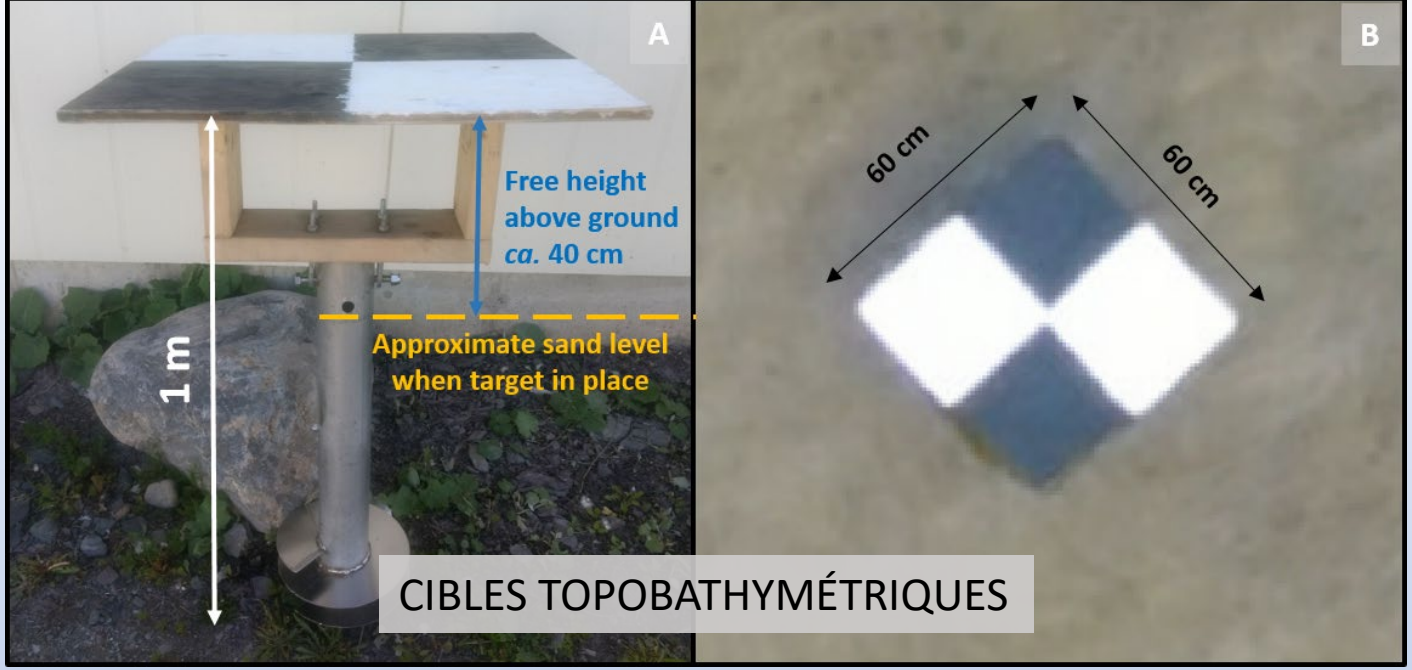


Gallix, Côte Nord

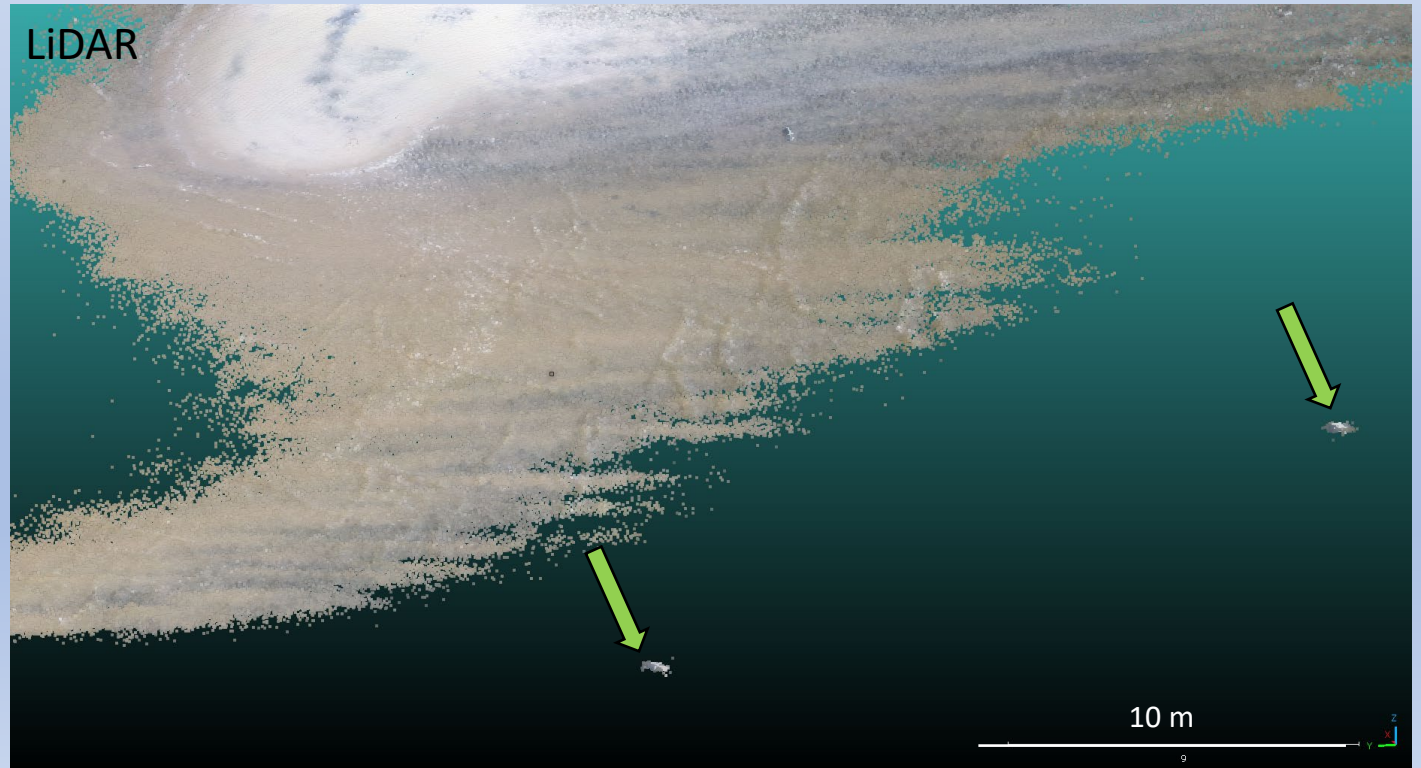
Jérémie Lemarchand (UQAR)
Pascal Bernatchez (UQAR)
Christian Larouche (U Laval)
Patrick Lajeunesse (U Laval)

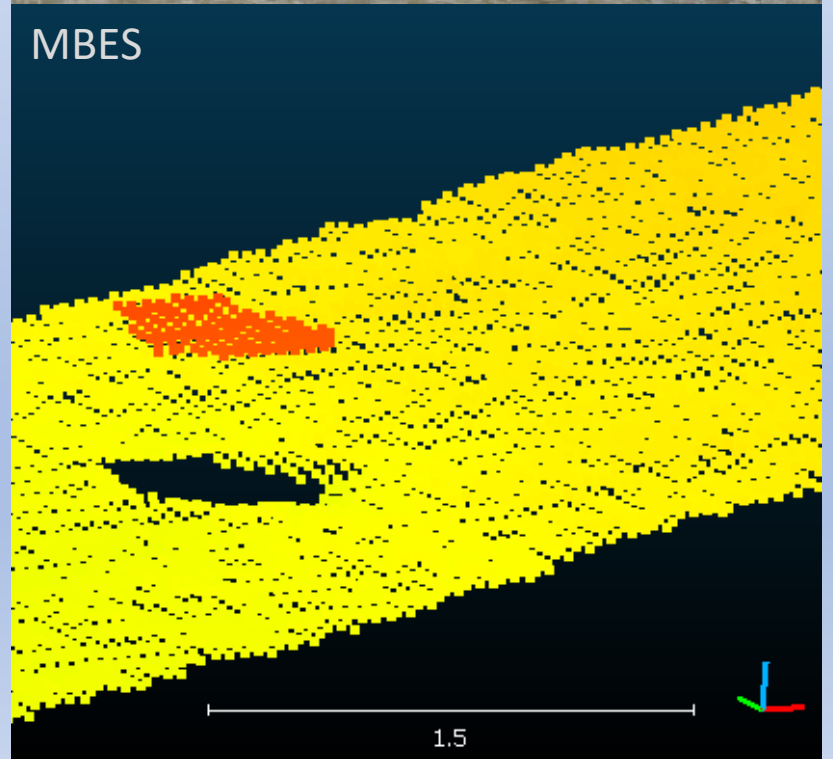
I – COMPARAISON AVEC DONNÉES TERRESTRES LiDAR ET PHOTOGRAMMÉTRIQUES

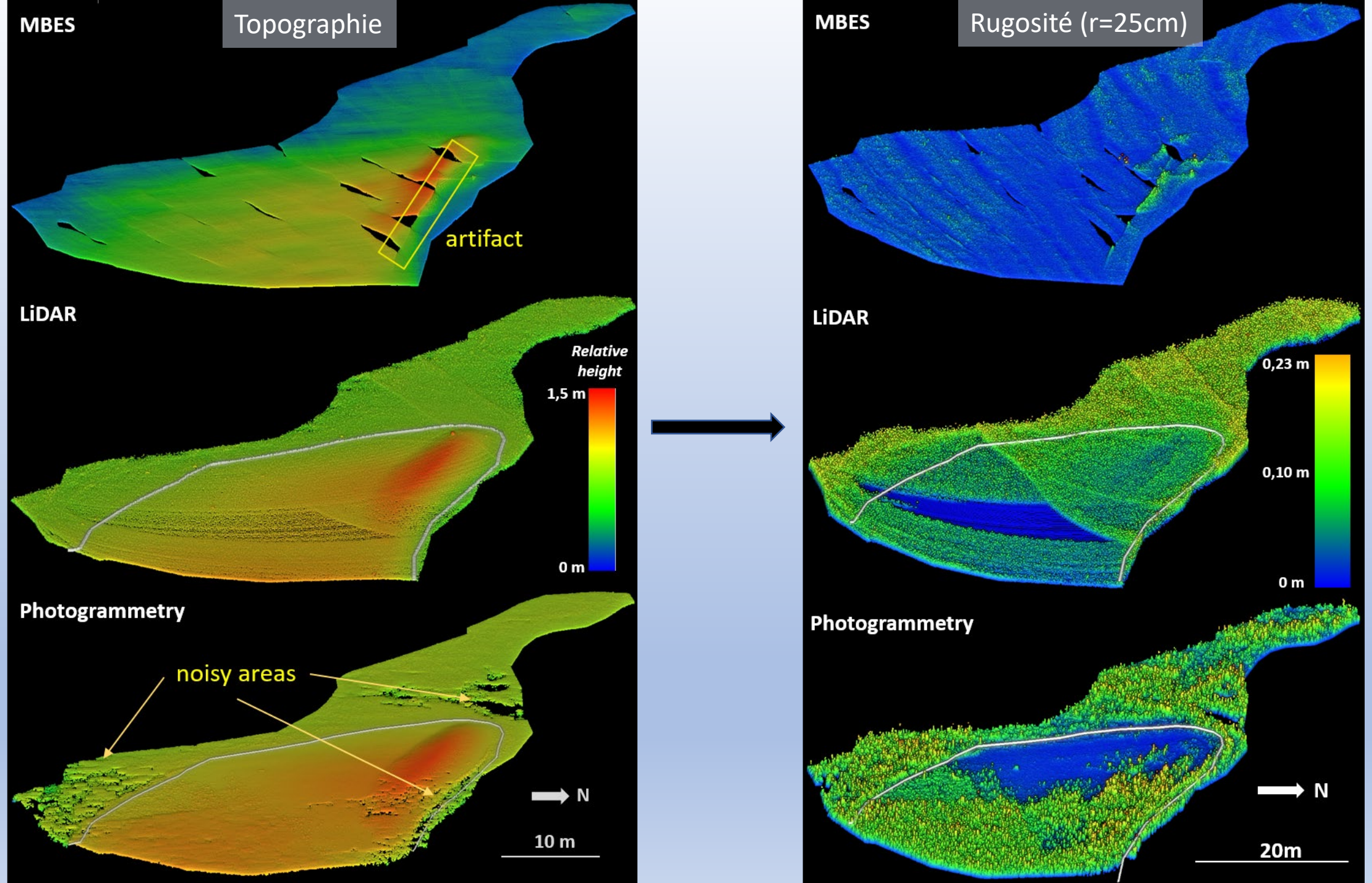




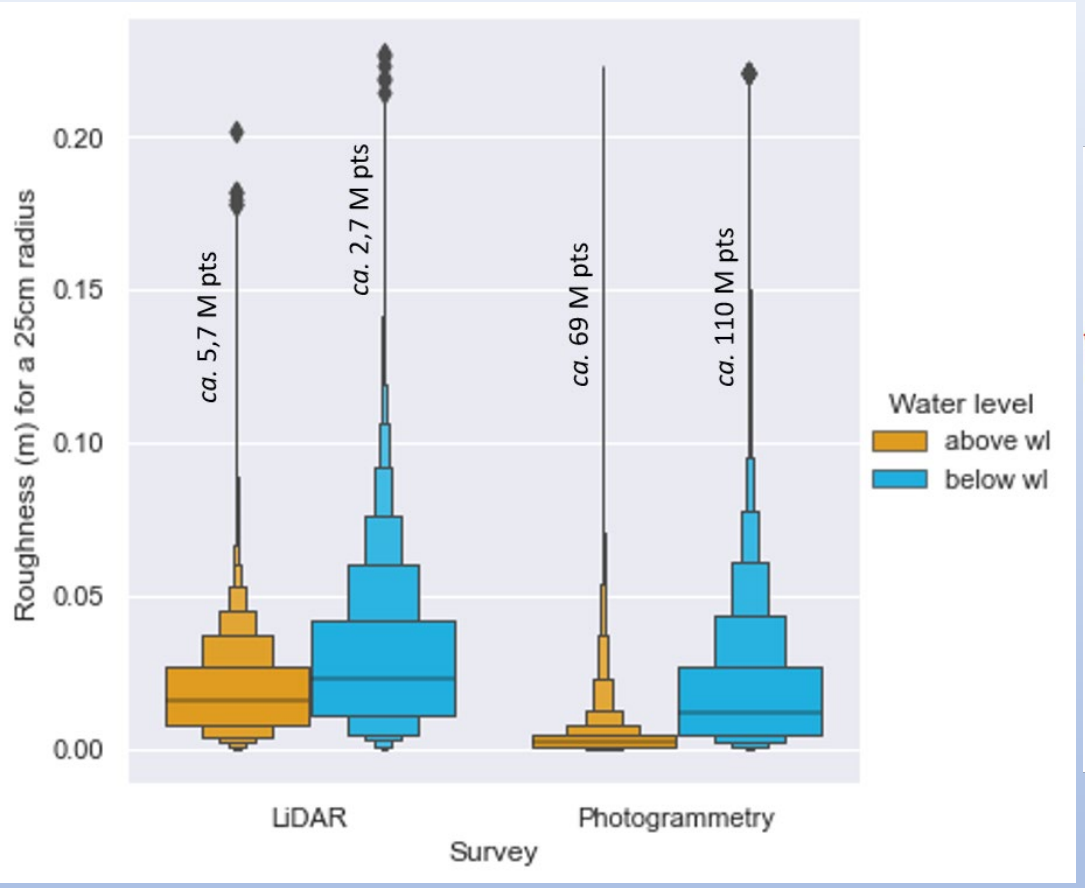
CIBLES TOPOBATHYMÉTRIQUES

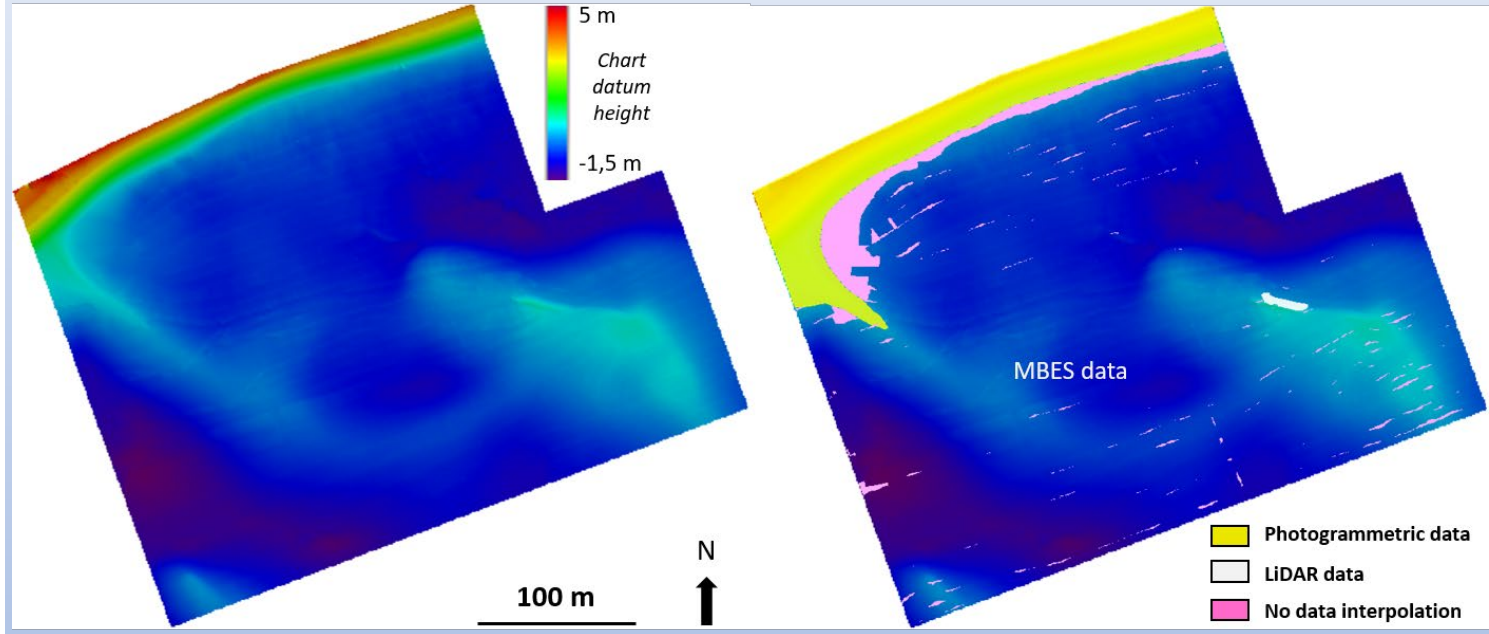




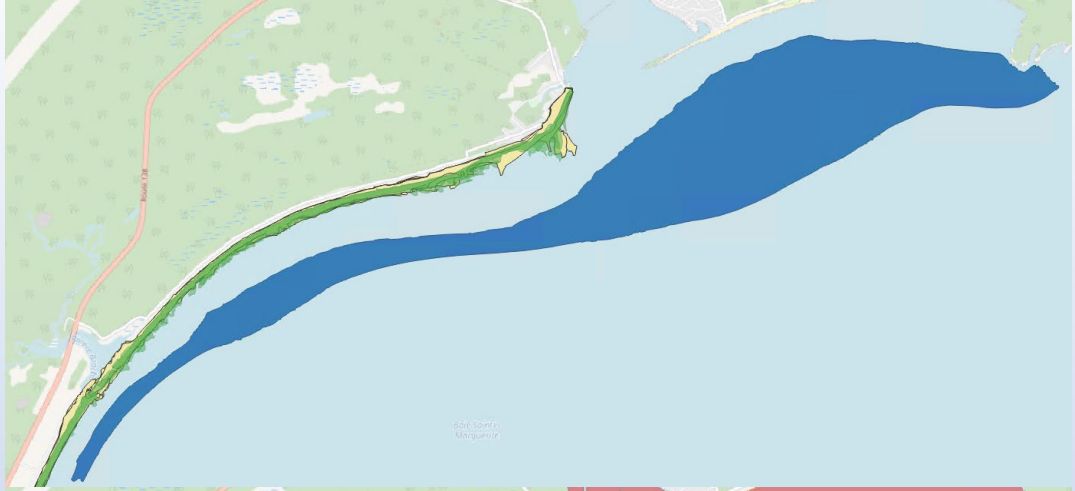

MBES
Topographie
artifact
LiDAR
Relative height
1,5 m
0 m
Photogrammetry
noisy areas
N
10 m
MBES
Rugosité (r=25cm)
LiDAR
0,23 m
0,10 m
0 m
Photogrammetry
N
20m

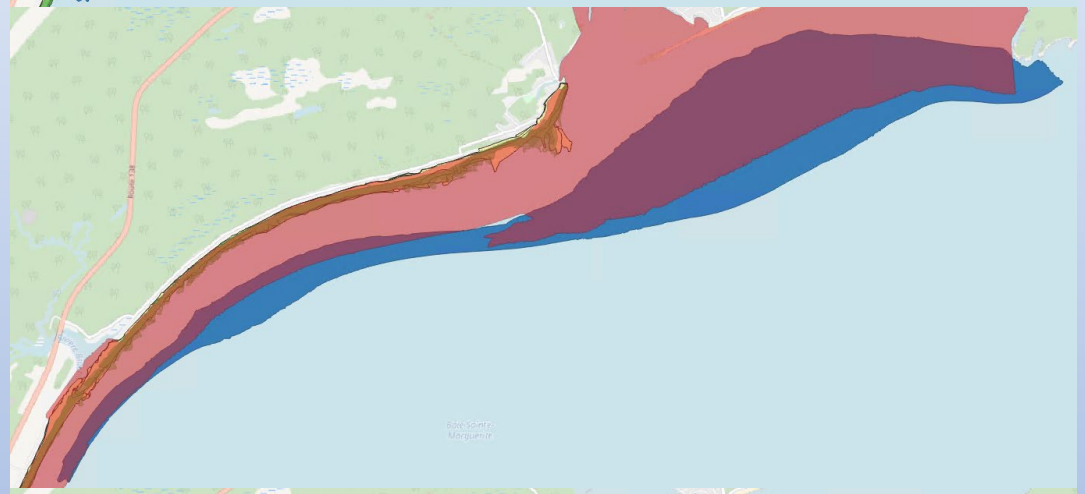
CONSTRUCTION DE DEM TOPOBATHYMÉTRIQUES





INTÉGRATION À DIFFÉRENTES ÉCHELLES TEMPORELLES ET SPATIALES





LiDAR aéroporté — 2006/2008/2014 2017/2021

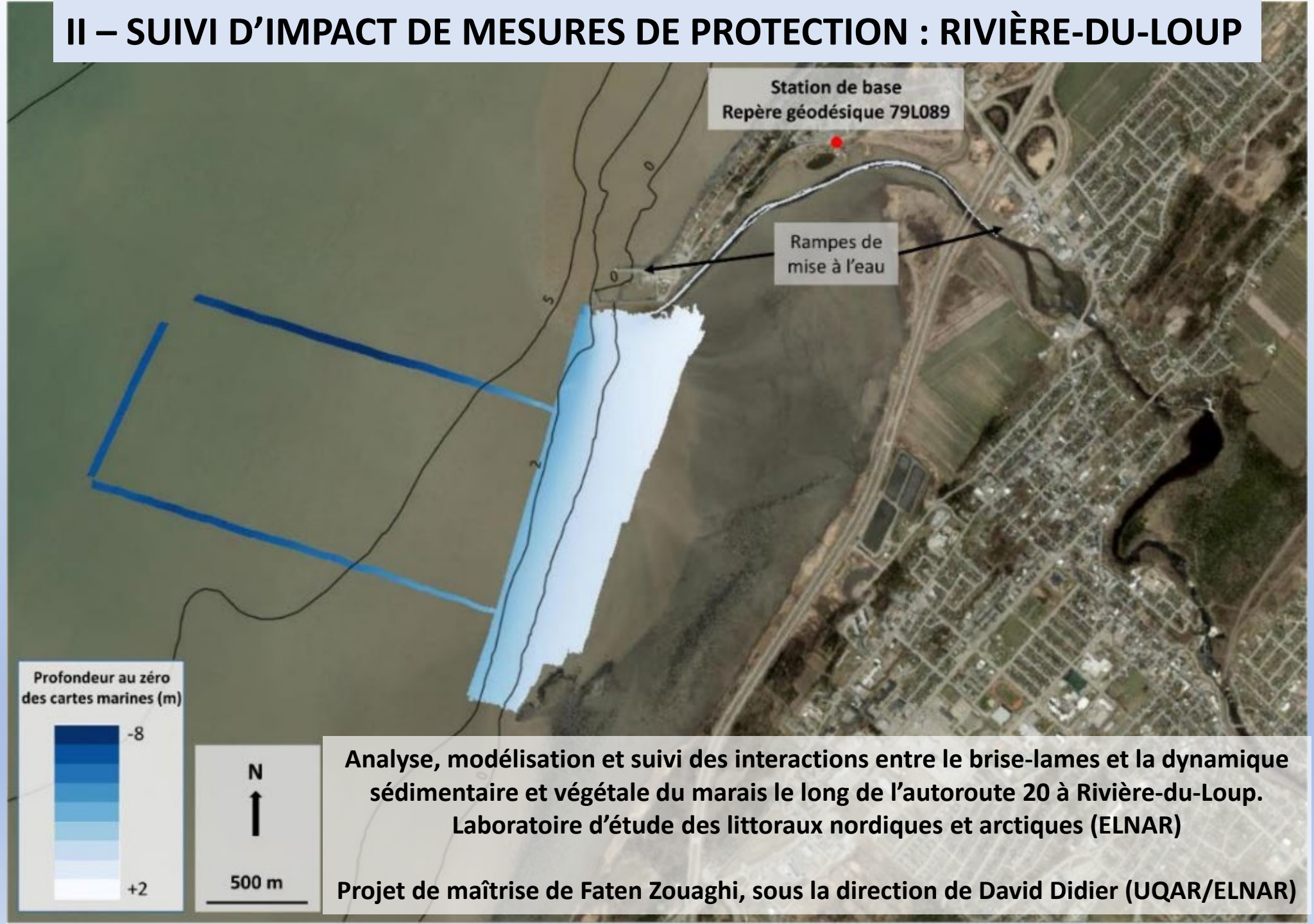
LiDAR véhicule terrestre (LDGIZC) — 2017/2020

Bathy MBES (LEH/CEN) — 2017

LiDAR topobathy aéroporté — 2015/2017

Bathy MBES motomarine — 2021

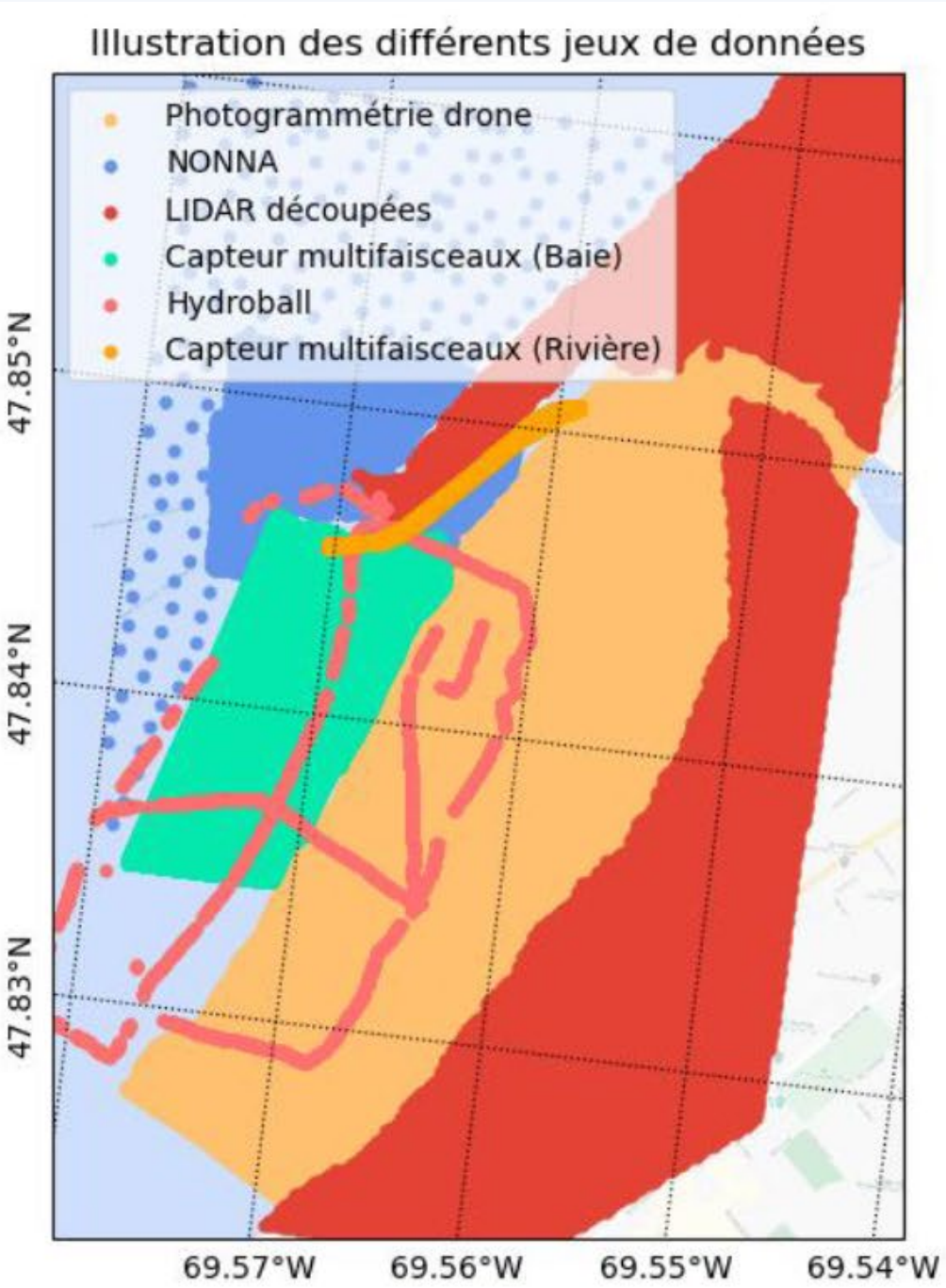
II – SUIVI D'IMPACT DE MESURES DE PROTECTION : RIVIÈRE-DU-LOUP

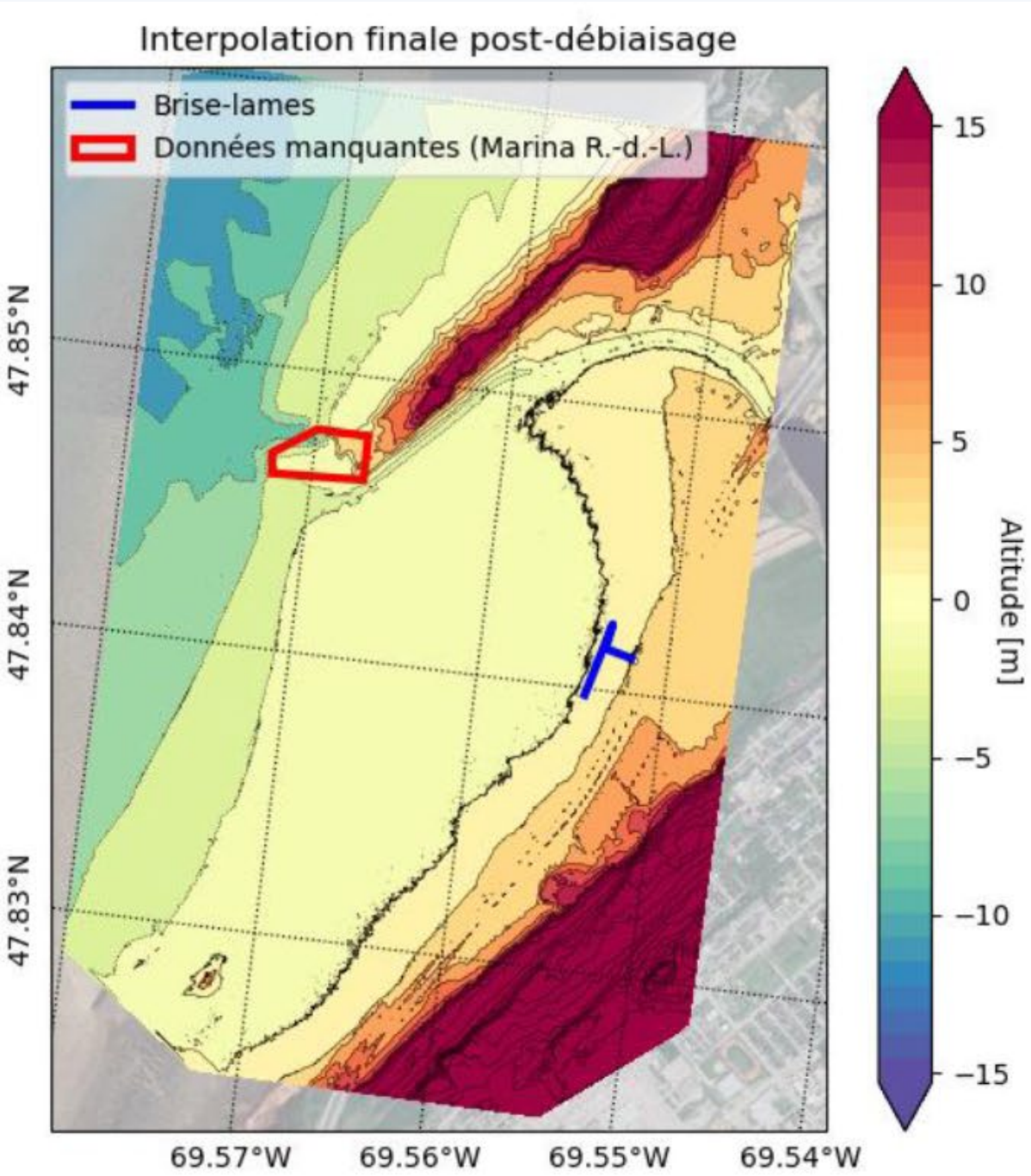


Analyse, modélisation et suivi des interactions entre le brise-lames et la dynamique sédimentaire et végétale du marais le long de l'autoroute 20 à Rivière-du-Loup. Laboratoire d'étude des littoraux nordiques et arctiques (ELNAR)

Projet de maîtrise de Faten Zouaghi, sous la direction de David Didier (UQAR/ELNAR)

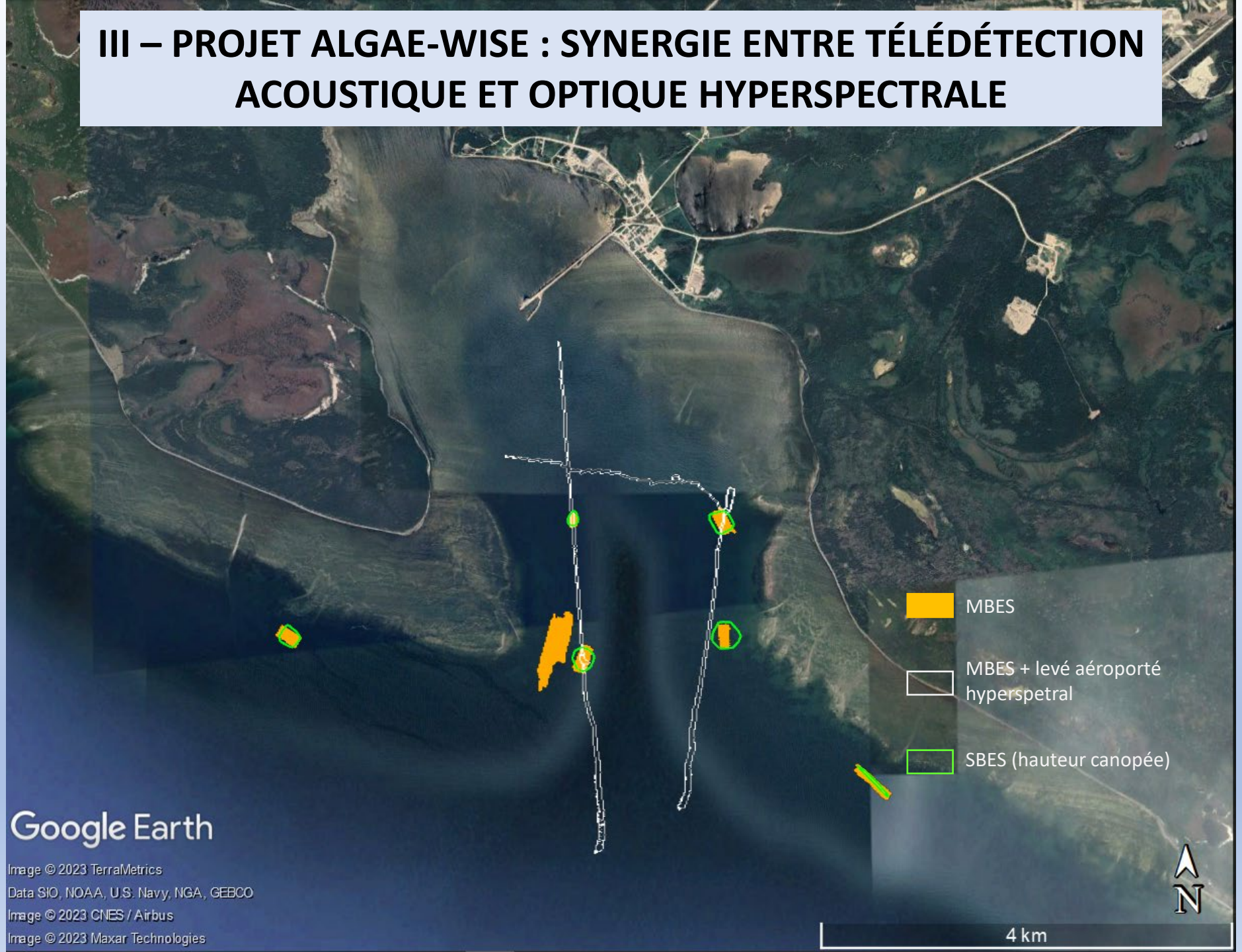
Zouaghi, F., et al. 2022

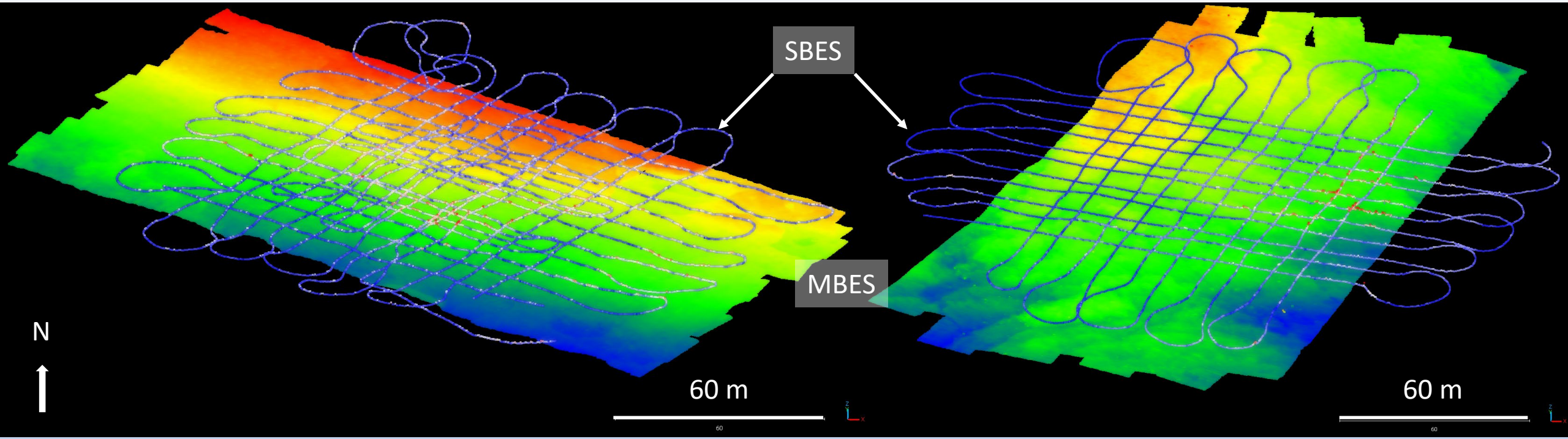


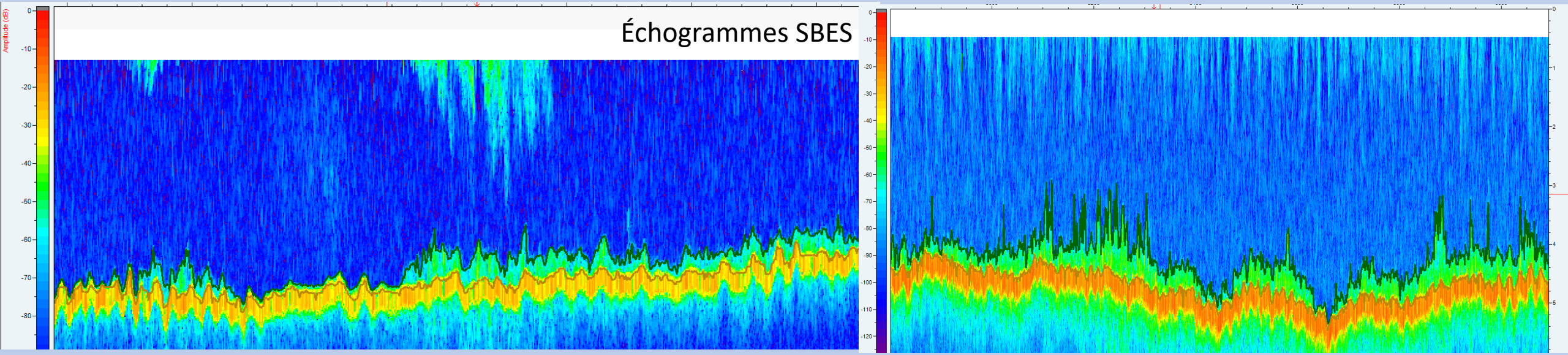


Zouaghi, F., et al. 2022

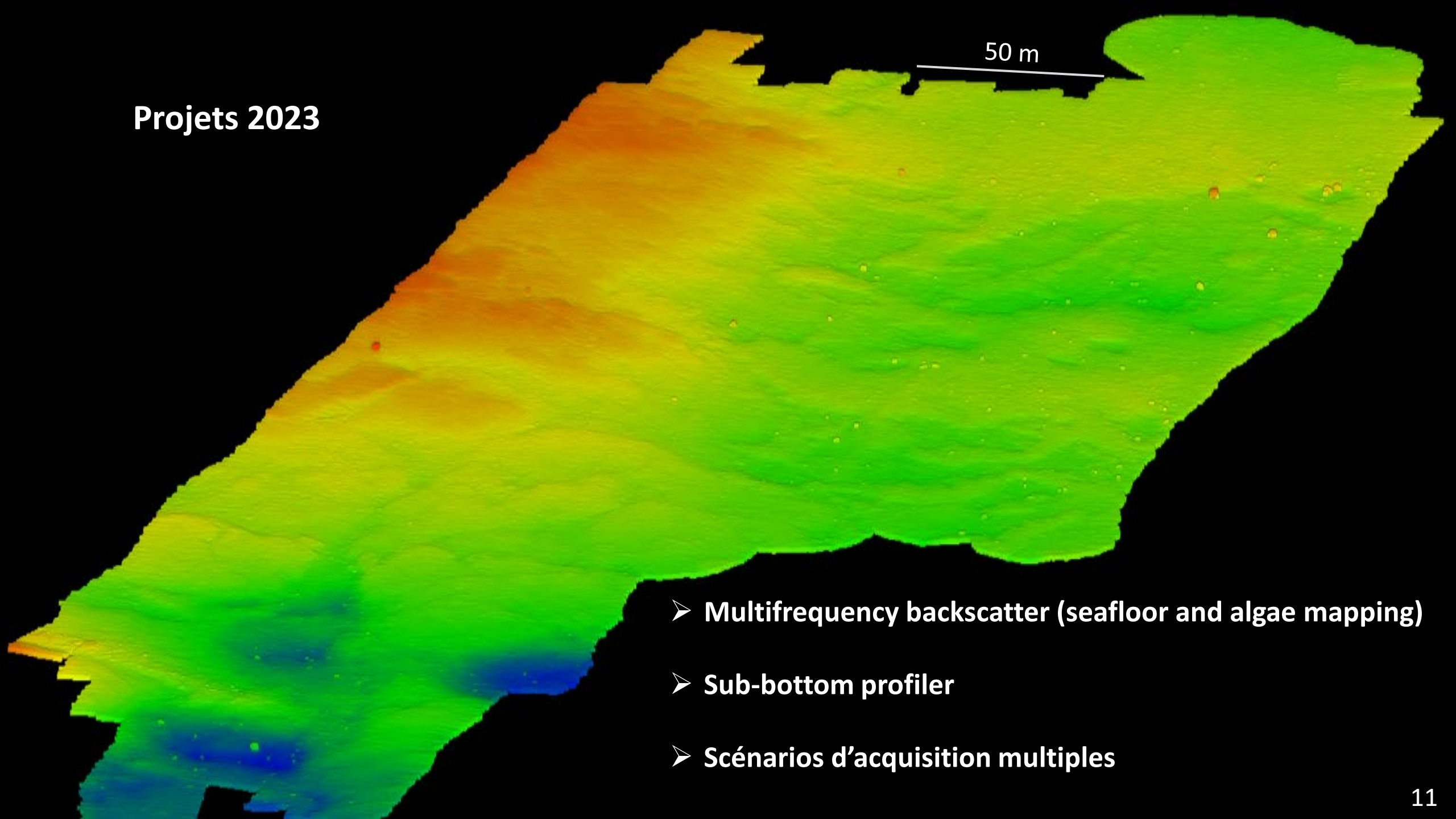
III – PROJET ALGAE-WISE : SYNERGIE ENTRE TÉLÉDÉTECTION ACOUSTIQUE ET OPTIQUE HYPERSPECTRALE




SBES
MBES
N
60 m
60 m


Échogrammes SBES

Projets 2023



- **Multifrequency backscatter (seafloor and algae mapping)**
- **Sub-bottom profiler**
- **Scénarios d’acquisition multiples**