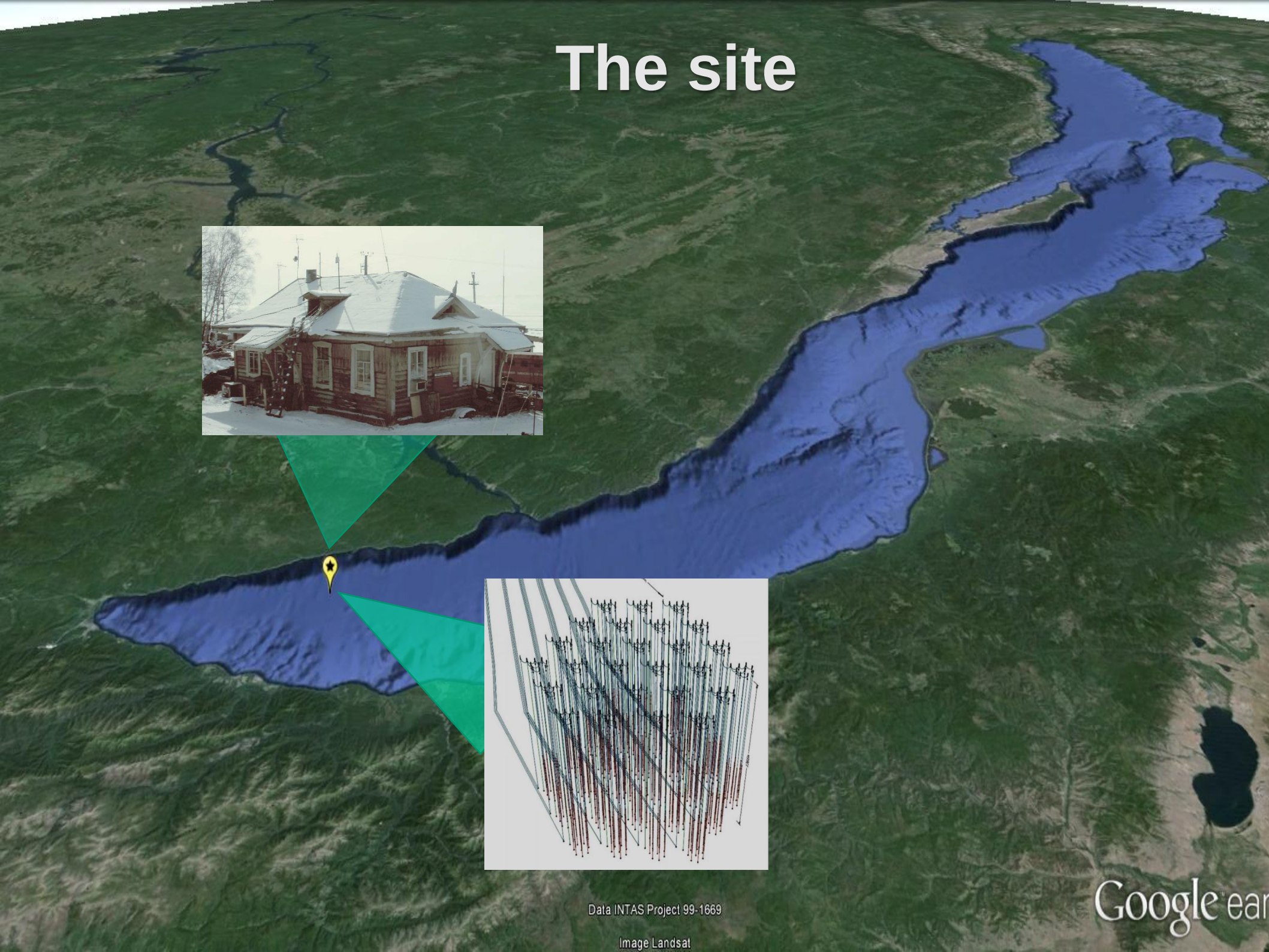
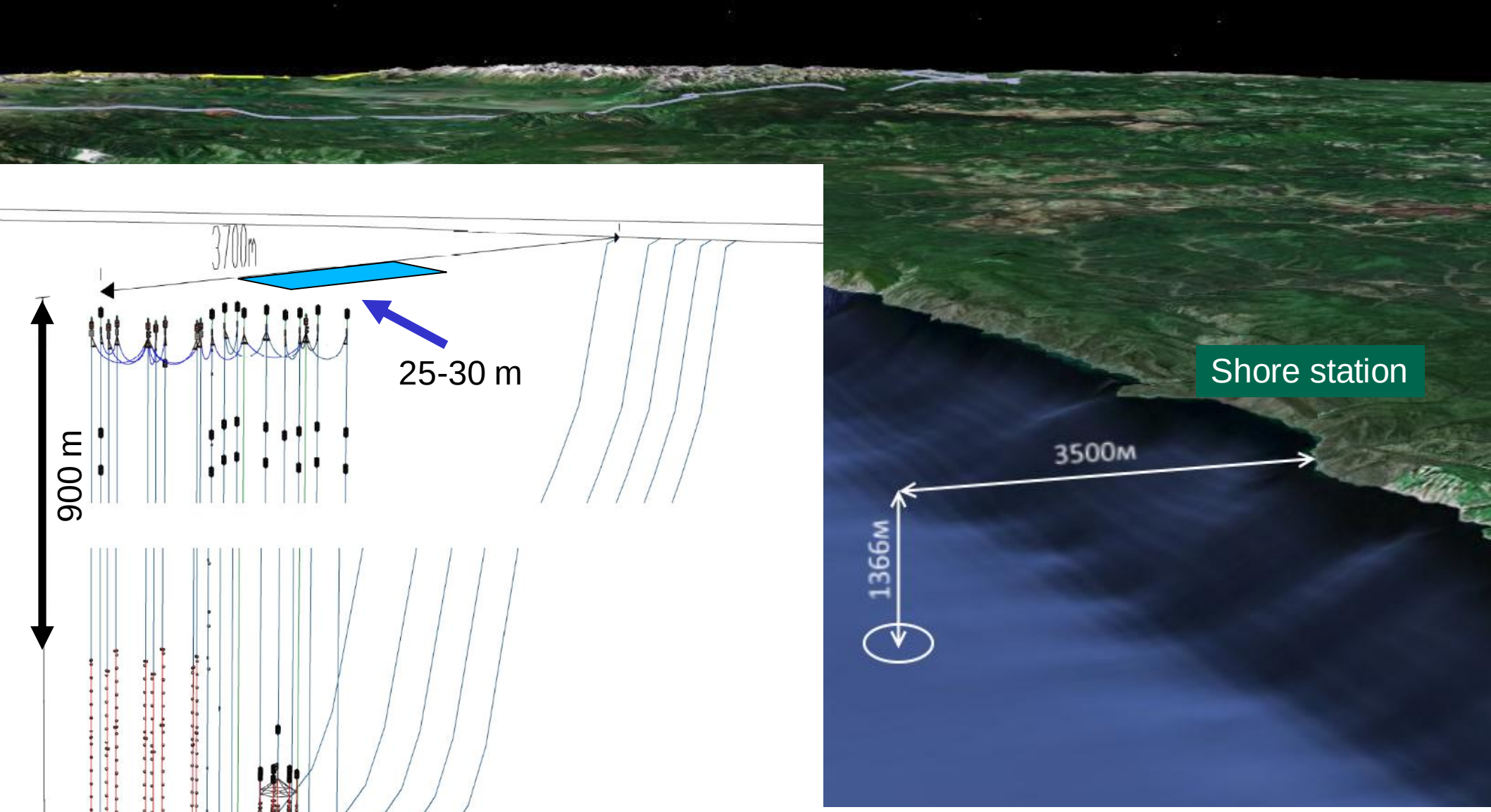
Assembling the GVD detector

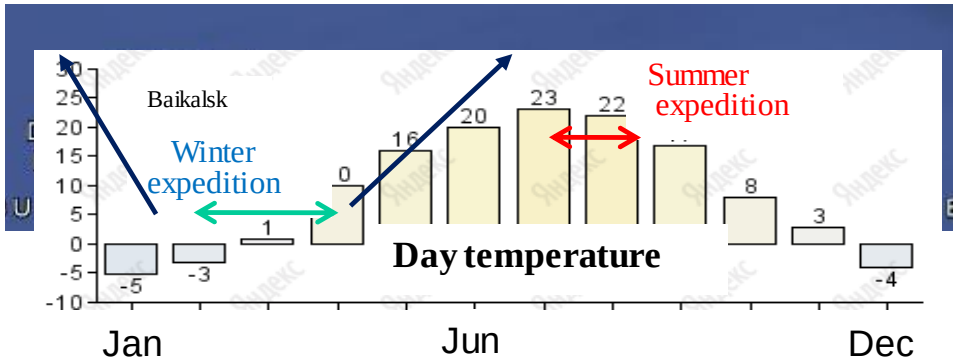
I.Belolaptikov on behalf of BAIKAL collaboration

The site





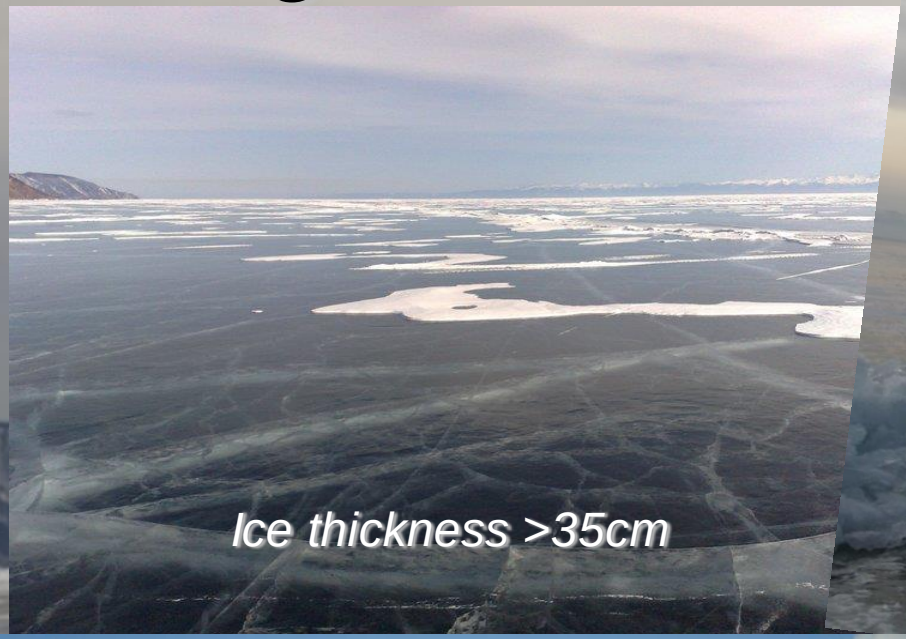
Ice thickness ~ 60-90 cm (sometimes up to 120 cm)



Stage 0

Usially on February 16-20

Timeline: 0-1 days



Ice thickness >35cm

Cracks and faults
Pathfinding needed

Pointing the site...
(GPS, triangulation with the shore marks) Precision ~ 20 cm

… and marking it

Vehicles

and heavy

Making ice-holes

Stage 1

Timeline: 1-2 days

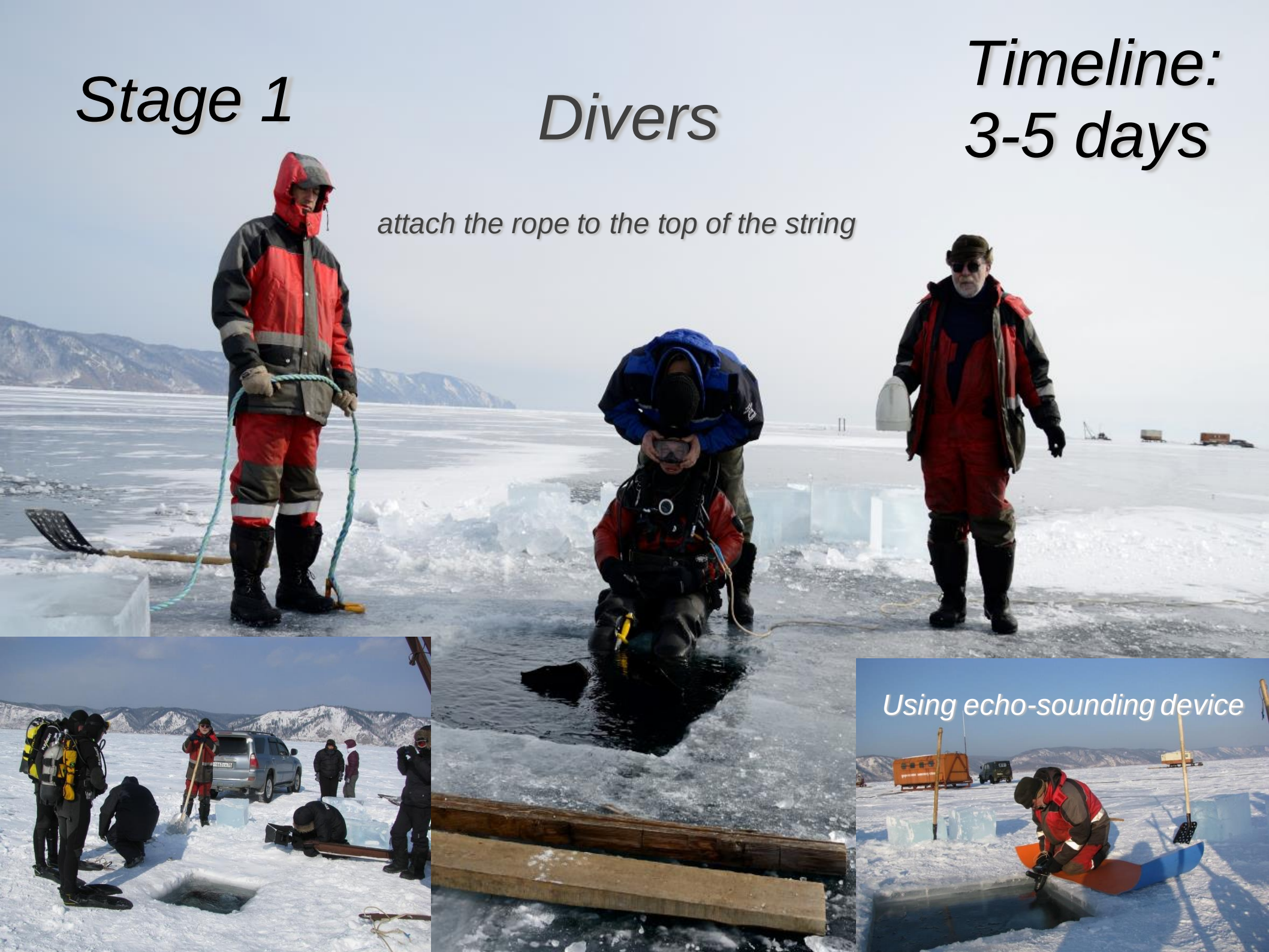

Stage 1
Timeline:
1-2 days
> 20 units need to transport to Ice-camp
...and even more in the next days

Stage 1

Divers

Timeline: 3-5 days

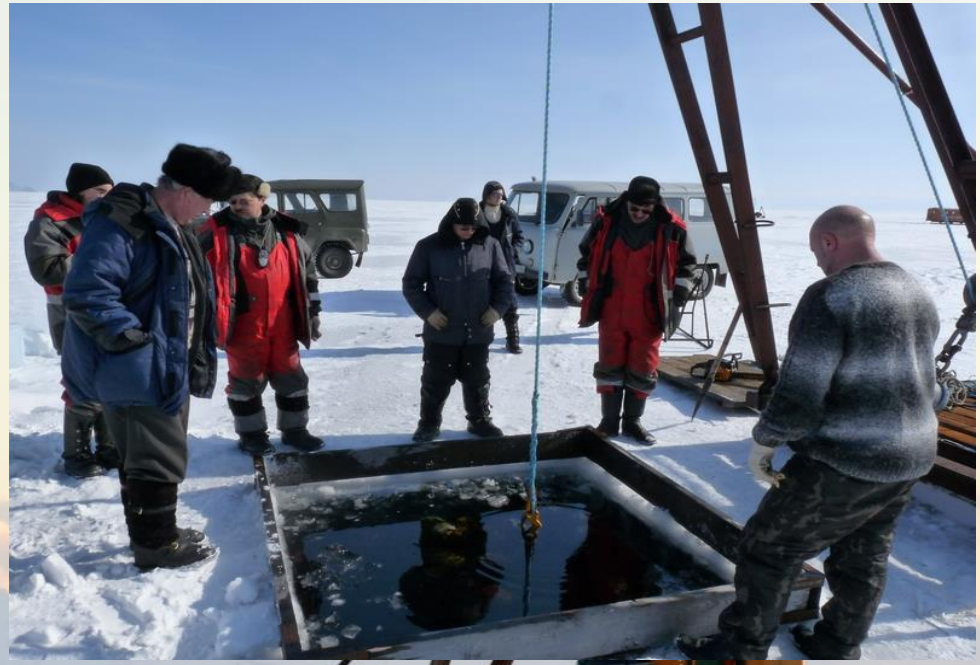
attach the rope to the top of the string



Stage 2

- *15-20 men on 4 groups, 3-5 men each*
- *Support personnel — drivers, electricians, mechanics*

Stage 2



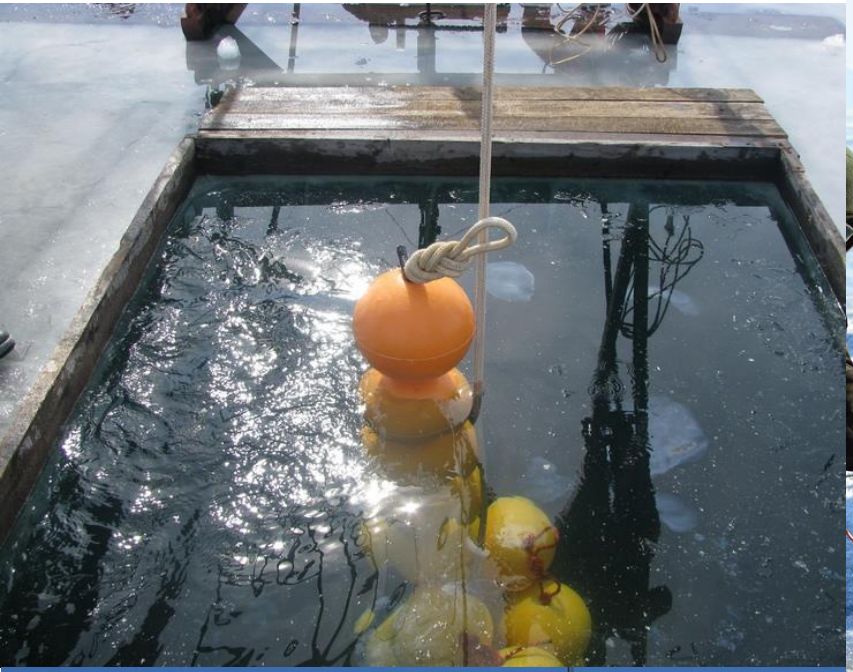
Timeline: 5-45 days

Stage 2 mounting new string

Timeline: 5-40 days

4-5 days for a group (4-5 men) to fully assemble and install new string from a prepared parts

mounting new string: technical features



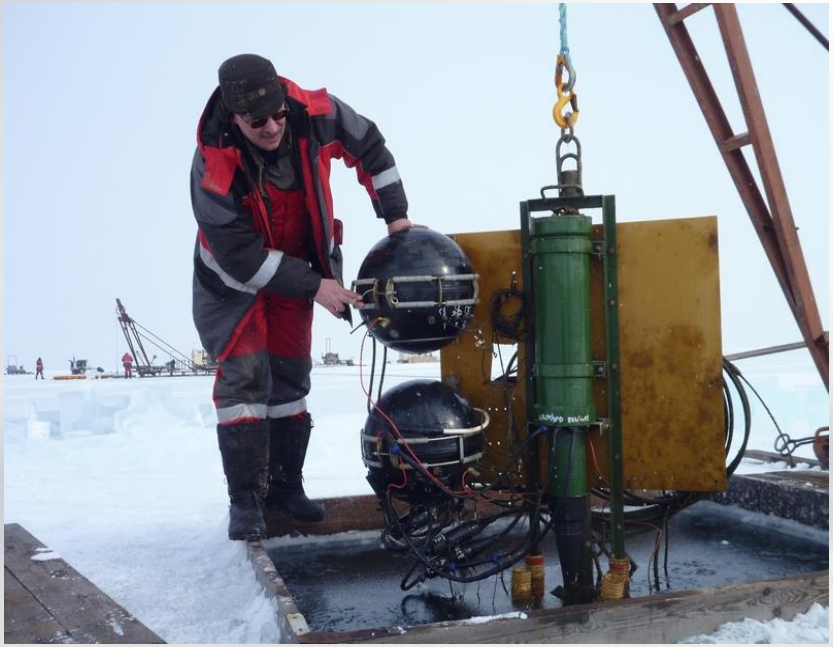
cabling to the shore

Screw-propelled vehicle

cabling to the shore

need one cable for each two clusters
task parallel to other work
takes ~3 week to prepare and only 2 days to complete

repairing,



maintenance,

upgrade

This also takes time and effort

Force Majeure

May takes 2-5 days

Of course, weather changed to its best two minutes after the job was done!

Totally 50-55 days

We can deploy 1 clusters per season right now

Can deploy 2 clusters per year with some additional out of ice preparations

It's over. Until next year. Same place, same time...

Thank you