Modern Architecture of the Arctic Research Facilities

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Arctic needs a new architecture
Surveys of polar explorers about architecture of research facilities in the Arctic.

- 5% says architecture is weak
- 10% says architecture is not comfortable enough
- 15% says architecture needs some changes
- 30% says they want their work stations repaired
- 40% says they want to work in a new building

5 new stations opened in XXI century.

More than 20 stations is closed.

More than 30 stations were opened during XX century and NEVER were rebuilt or repaired.

Research facilities need a new architecture, which operates special methods.
Special architecture methods

- Arrangement of windows at an angle
- Maximizing sun exposure
- Sloping the bottom of the building prevents snow accumulation
- Wall slopes reduce snow load
- The wind directed under the building keeps permafrost safe
- Pile foundation also preserves permafrost
Author's projects of research stations
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[Images of architectural designs and people exploring the spaces]
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