

# **Sea ice monitoring of the Northern Sea Route using satellite radar technology**

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# Northern Sea Route

the shortest waterway  
between the European part  
of Russia and the Far East



# Reliable Information about the Ice Conditions





# Remote Sensing

```
graph TD; A[Remote Sensing] --> B[optical-electronic systems]; A --> C[radar systems];
```

## **optical-electronic systems**

- shooting in the visible and infrared wavelength electromagnetic waves

## **radar systems**

- shooting in the centimeter radio band

# Radar Imagery

- **radio-waves penetrate through clouds**
- **radar images are weather and cloud independent**



**Thank you for attention**