

REFERENCES

1. Arctic, located 90° North, freezes at temperature -40°C and magnetic field is weaker
<https://education.nationalgeographic.org/resource/north-pole/>
<https://www.ncei.noaa.gov/products/geomagnetism>
<https://www.britannica.com/one-good-fact/which-of-earths-poles-is-far-warmer-than-the-other>
2. Arctic has no time zones
<https://www.timeanddate.com/time/time-at-north-pole.html>
3. “50 years of victory” The world's largest and the most powerful nuclear ship
<https://poseidonexpeditions.com/about/articles/aboard-50-years-of-victory>
<https://www.ship-technology.com/projects/fiftyyearsofvictoryi/>
<https://rosatom.ru/en/rosatom-group/the-nuclear-icebreaker-fleet>
<https://world-nuclear.org/information-library/non-power-nuclear-applications/transport/nuclear-powered-ships>
4. How does the icebreaker break ice
<https://dmsonline.us/breaking-the-ice/>
<https://www.ccg-gcc.gc.ca/multimedia/videos/icebreaking-deglacage-eng.html>
5. Arctic ice is 3-5mm thick
<https://nsidc.org/learn/parts-cryosphere/sea-ice>

6. Normal ships have steel body 15-20mm thick, which cracks like glass at low temperature

https://www.shipbuilding-steel.com/News/what-is-the-thickness-of-ship-steel_2543.html

<https://www.sciencedirect.com/topics/engineering/longitudinal-framing>

<https://www.asams.co.uk/about/asams-blog/what-is-the-ductile-brittle-transition-temperature>

7. Why did the titanic sink

<https://www.britannica.com/science/How-Cold-Was-the-Water-When-the-Titanic-Sank>

https://tsapps.nist.gov/publication/get_pdf.cfm

<https://www.britannica.com/story/timeline-of-the-titanics-final-hours>

8. Icebreaker of Knowledge

<https://goarctic.energy/>

9. Engineering design of the gigantic 50 Years of victory

<https://www.ccg-gcc.gc.ca/publications/icebreaking-deglacage/ice-navigation-glaces/page06-eng.html>

<https://www.marineinsight.com/types-of-ships/how-does-an-ice-breaker-ship-works/>

<https://www.globalsecurity.org/military/world/russia/10520.htm>

https://en.wikipedia.org/wiki/Arktika_%281972_icebreaker%29

https://www.livingoceans.org/sites/default/files/tanker-technology_limitations-double-hulls.pdf

10. Stresses acting on ice exceed ice strength leading to failure

<https://asmedigitalcollection.asme.org/appliedmechanicsreviews/article/60/5/246/453749/Interaction-of-Ships-and-Ocean-Structures-With-Ice>

<https://www.sciencedirect.com/science/article/abs/pii/S0165232X17300101>

11. Nuclear Powered ship

<https://world-nuclear.org/information-library/non-power-nuclear-applications/transport/nuclear-powered-ships>

<https://www.expeditioncruisespecialists.com/library/ships/50years-of-victory/deckplan.jpg>

12. Nuclear reactions

<https://world-nuclear.org/information-library/nuclear-fuel-cycle/introduction/physics-of-nuclear-energy>

https://phys.libretexts.org/Bookshelves/University_Physics/University_Physics

<https://www.energy.gov/ne/articles/nuclear-101-how-does-nuclear-reactor-work>

<https://www.britannica.com/science/fission-product>

<https://world-nuclear.org/information-library/nuclear-fuel-cycle/nuclear-power-reactors/nuclear-power-reactors>

13. Energy released by burning coal vs Nuclear fission energy

https://chem.libretexts.org/Bookshelves/Introductory_Chemistry/Fundamentals_of_General_Organic_and_Biological_Chemistry_

14. Number of power plants in the world is 440

<https://world-nuclear.org/information-library/current-and-future-generation/nuclear-power-in-the-world-today>

<https://world-nuclear.org/images/articles/World%20Nuclear%20Performance%20Report%202025.pdf>

15. Average space required for a nuclear power plant is 1.3 square miles approximately 800 acres

<https://www.nei.org/news/2022/nuclear-brings-more-electricity-with-less-l-and>

16. Nuclear power plant buildings

<https://www.nrc.gov/docs/ml1117/ml11171a330.pdf>

17. Maximum limit on uranium enrichment

<https://world-nuclear.org/information-library/nuclear-fuel-cycle/conversion-enrichment-and-fabrication/uranium-enrichment>

<https://world-nuclear.org/information-library/non-power-nuclear-applications/transport/nuclear-powered-ships>

18. Difference between magnetic north pole & geographic north pole

<https://gisgeography.com/magnetic-north-vs-geographic-true-pole/>

19. How Gyroscope works in North Pole

<https://www.usni.org/magazines/proceedings/1933/january/principles-gyrocompass>