

Dark Sea — Credits, Sources & License Notes

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Film release: 2026 (YouTube)

Book: *Dark Sea* (German edition) — ISBN-13: 978-3986741556

Purpose

This document lists the data sources, imagery/footage, and licensing notes used in the film *Dark Sea*.

How credits appear in the film

Credits are displayed on-screen per asset and in the end credits.

Contact for corrections

<https://claudepiel.org/contact/>

Credits & Acknowledgments

Ocean Governance / Law (Core references)

- International Tribunal for the Law of the Sea (ITLOS), Case No. 31, Amicus Curiae Brief of the UN Special Rapporteurs (30 May 2023).
Link: https://www.itlos.org/fileadmin/itlos/documents/cases/31/written_statements/4/C31-WS-4-1_Amicus_Brief_UN_Special_Rapporteurs.pdf
- UN BBNJ Agreement, Notification 2026-001 (DOALOS / UN).
Link: <https://www.un.org/bbnjagreement/en/notification-2026-001>

Shipping / Regulation / Industry (MASS / transition)

- DNV Maritime, “MASS code timeline” (Autonomous & Remotely Operated Ships – regulatory).
Link: <https://www.dnv.com/maritime/autonomous-remotely-operated-ships/regulatory/>
- DNV / Maritime Just Transition Task Force (2022), “Seafarer training and skills for decarbonized shipping”.
Link: <https://www.dnv.com/Publications/seafarer-training-and-skills-for-decarbonized-shipping-235124/>
- DNV / Maritime Just Transition Task Force (2022), “Maritime Forecast to 2050 – Energy Transition Outlook 2022”.
Link: <https://www.dnv.com/maritime/maritime-forecast/>
- International Chamber of Shipping (ICS), ICS Maritime Barometer 2023–2024.
Link: <https://www.ics-shipping.org/wp-content/uploads/2024/09/ICS-Barometer-2023-2024-Full-report.pdf>

Maritime Zones / Maps / Cables (Infrastructure)

- NOAA, “Maritime Zones and Boundaries.”
Link: <https://www.noaa.gov/maritime-zones-and-boundaries>
- Marine Regions, Exclusive Economic Zones (EEZ) Map.
Link: <https://www.marineregions.org/>
- EMODnet (EU), Human Activities / Submarine Cables data product (CC BY 4.0).
Link: <https://emodnet.ec.europa.eu/en/>
- 2Africa Press Kit Map.
Link: <https://www.2africacable.net/presskit>
- Rarelibra, “World map of submarine cables” (Wikimedia Commons, Public Domain).
Link: https://commons.wikimedia.org/wiki/File:World_map_of_submarine_cables.png
- Wikimedia Commons, “China’s 2009 nine-dash line map submission to the UN” (UN-derived map, Public Domain).
Link: https://en.wikipedia.org/wiki/File:China%27s_2009_nine-dash_line_map_submission_to_the_UN.pdf
- K. Aainsqatsi, “Oceanic divisions.svg” (Wikimedia Commons; Public Domain / CC BY-SA 3.0 / GFDL).
Link: https://commons.wikimedia.org/wiki/File:Oceanic_divisions.svg

Energy / Trade / Macro indicators

- U.S. Energy Information Administration (EIA), “World Oil Transit Chokepoints.”
Link: https://www.eia.gov/international/analysis/special-topics/World_Oil_Transit_Chokepoints
- UNCTADstat Insights (themes/indicators as cited).
Links:
<https://unctadstat.unctad.org/insights/theme/116>
<https://unctadstat.unctad.org/insights/theme/118>
<https://unctadstat.unctad.org/insights/theme/115>
<https://unctadstat.unctad.org/insights/theme/11>
<https://unctadstat.unctad.org/insights/theme/246#indicator-52>
<https://unctadstat.unctad.org/insights/theme/95>

Fisheries / Seabed / Plastics

- World Ocean Review 7 (WOR 7), FAO-based figures + IUU graphic (CC BY 4.0).
Link: <https://worldoceanreview.com/de/wor-7/nahrung-aus-dem-meer/problemzone-fischerei/>
- Global Fishing Watch (GFW), fishing map screenshot.
Link: <https://globalfishingwatch.org/>

- International Seabed Authority (2023), CCZ maps/shapefiles (plus *Meeresatlas* 2017 CCZ map, CC BY 4.0, adapted).
Link: <https://www.isa.org.jm/exploration-contracts/maps/>
- UN Statistics Division, SDG Report 2022 (Goal 14).
Link: <https://unstats.un.org/sdgs/report/2022/img/info/Goal-14.pdf>

Ocean Science / Observations / Climate visuals

- NASA Sea Level Change Portal, “Rising Tides – Understanding Sea Level Rise.”
Link: <https://sealevel.nasa.gov/resources/103/video-rising-tides-understanding-sea-level-rise/>
- NASA Sea Level, “NASA-UN Partnership Gauges Sea Level Threat to Tuvalu” (photo credit: Nadya Vinogradova Shiffer, 2023).
Link: <https://sealevel.nasa.gov/news/265/nasa-un-partnership-gauges-sea-level-threat-to-tuvalu/>
- NOAA Ocean Service: Thermohaline circulation / global conveyor belt graphics.
Links:
https://oceanservice.noaa.gov/education/tutorial_currents/05conveyor1.html
https://oceanservice.noaa.gov/education/tutorial_currents/05conveyor2.html
- NOAA Ocean Exploration (“Deep Ocean Bites” + multimedia).
Links:
<https://oceanexplorer.noaa.gov/multimedia/edu-multimedia-resources-deep-ocean-bites-media-tinkerer-rov-engineer/>
<https://oceanexplorer.noaa.gov/multimedia/>
- NOAA Ocean Acidification Program, CDR / mCDR infographics (credit: Sarah Battle, NOAA).
Link: <https://oceanacidification.noaa.gov/carbon-dioxide-removal/cdr-infographics/>
- NASA/GSFC Scientific Visualization Studio (SVS): “Perpetual Ocean” (2011); “Garbage Patch Visualization Experiment” (SVS #4375, 2015); “NASA Earth Observing Fleet” (SVS #5476, 2025); “Sea Surface Temperature Anomalies” (SVS #5450, 2024).
SVS links:
<https://svs.gsfc.nasa.gov/>
<https://svs.gsfc.nasa.gov/4375/>
<https://svs.gsfc.nasa.gov/5476/>
<https://svs.gsfc.nasa.gov/5450/>

Research / Sensors / Digital ocean

- Zinan Wang / Yun Jiang Rao / Liyang Shao et al., “DAS sensing figure”, *Photonic Sensors* (Tsinghua Univ. Press, 2026), CC BY 4.0.
DOI/Link: <https://doi.org/10.26599/PhoS.2026.9560001>
- Sustainable Development Report for Small Island Developing States (2023), Figure I.2 (p. 12).
Link: <https://sdgtransformationcenter.org/reports/sustainable-development-report-for-small-island-developing-states-2023>

Blue Economy / Finance

- Elston; Pinto; Nogueira (2024). “Tides of Change for a Sustainable Blue Economy.” *Sustainability* 16(24), 11141 (CC BY 4.0).
Link: <https://doi.org/10.3390/su162411141>
- Blue Transformation Institute (BTI), “Blue Economy Finance Pipeline” (AI-assisted adaptation).
- Insurance Development Forum (IDF) / [BTI], “From Risk to Resilience” (2025).
Link: https://www.insdevforum.org/wp-content/uploads/2025/06/BI-IDF_From-Risk-to-Resilience_vF-1.pdf

Arctic / PACE / Literacy

- NASA Earth Observatory, “Shipping Responds to Arctic Ice Decline.”
Link: <https://science.nasa.gov/earth/earth-observatory/shipping-responds-to-arctic-ice-decline-91981/>
- NASA PACE Mission, “Interdisciplinary Science Objectives.”
Link: <https://pace.oceansciences.org/>
- Irish Ocean Literacy Network (IOLN) / UNESCO-IOC, “Ocean Literacy Principles” (used with permission).
Link: <https://irishoceanliteracy.ie/>
- Escola Azul (Portugal), photo.
Link: <https://escolaazul.pt/escola-azul/novidade/concurso-da-minha-lingua-ve-se-o-mar>

The Ocean Cleanup / Pixabay

- The Ocean Cleanup (video footage).
Link: <https://theoceancleanup.com/>
- Pixabay assets:
Video (Danilo Riba): <https://pixabay.com/videos/beach-waves-sunset-ocean-rocks-74886/>
Audio “Sea Waves” (Keith Peter): <https://pixabay.com/sound-effects/nature-sea-waves-18873/>
Photo (Ylloh): <https://pixabay.com/photos/samphire-watt-sea-north-sea-4001104/>

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