

Thematic approaches to Protection of Submarine Cables on the High Seas as Cyber Infrastructure

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I. Introduction

- ➤ Background: Non-exercise of Flag State Jurisdiction in Article 113 of UNCLOS, Trusteeship to "Duty of flag State" in Article 94 on the HS as a Primary Principle??
- Objectives: Elevated Protection Regime for Submarine Communication Cables as Cyber Infrastructure on the HS
 - Extension of Jurisdictions and Injured States
 - Private Ends to Cyber Infrastructure on the HS in Article 101 and 102 of UNCLOS
 - Exception to State Immunity
 - Justification of Self-help
 - Consent-Regime by Flag States for Protection of Cyber Infrastructure as Global Commons





II. Approach 1: Piracy and Universal Jurisdiction

> Article 101 of UNCLOS and Universal Jurisdiction

- Exceptional Affordability to a foreign vessels on the HS
- Right of Visit (Art.110)/Seizure of the foreign vessel(Art.105)/Domestic Indictment on the "piracy"

➤ Limitations in "piracy" in Attack on Submarine Cables on the HS

- Less Effective Enforcement of Universal Jurisdiction
- Not obligated for the non-relevant State in "Right of Visit" and "Hot pursuit"
- Concurrent Jurisdiction between a Flag State and an Interdicting State
- No Appetite by the non-relevant State to punish the Attack
- Piracy to "State-sponsored Attack" (=non-private ends?)

➤ Variation of the Rule of Piracy

- Role of UN, UNODC, ITU, and NATO
- Private Ends on "State-sponsored Attack": Munity exception to State Immunity (Russian Submarine's Attack on Submarine Cables as munitied as a private vessel in Article 102 of UNCLOS)





III. Approach 2: Maritime Terrorism and Cyber Security

- ➤ Maritime Terrorism and Damage to SCC on the HS
 - 2005 SUA Legal Framework for Maritime Terrorism (Treaty Law, non-Universal Jurisdiction)
 - Fixed Platform, Sea-bed area beyond Continental shelf
 - Non-applicable to governmental ships
- > Cyber Attack on Cyber Infrastructure on the HS
- Maritime Cyber Attack and Tallinn Manual 2.0 : SCC as Cyber Infrastructure, out of State Responsibility, Commercial ends in Private Sector(Rule 54), Open to any Cyber attack and any Cyber Espionage
- Cyber Terrorism and Budapest Convention: Cyber Sabotage on the HS in line with article 113 of UNCLOS(Art.22 of BC), the Principle of "aut dedere aut judicare" (extradite or prosecute) (Art.24 of BC), Contracting Parties' alternative approach
- ➤ Maritime Cyber Terrorism and *lex specialis* for Protection of Cyber Infrastructure





IV. Approach 3: Self-help by an Injured State

> Extension of Injured States

- Art.113 of UNCLOS punishment of commission only by flat States, how about cable owner State or registered State, data-loss State, a State with collateral damage of communication networks?
 - Failure of "freedom of laying submarine cables on the HS", International Community as a whole?
 - directly injured State and indirectly injured State?

Circumstances Precluding Wrongfulness by Injured State's Intervention

- Countermeasures as non-forcible means(Art.22 of ARSIWA): Attribution of a State act, impossible to apply to a non-State actor
- Self-defense as forcible means (Art.51 of UNC, Art.21 of ARSIWA): inherent right, threshold of an armed attack, imminent and proportionate, low scale of use of force(test of gravity) by a non-state actor with state-sponsorship(Terrorism Exception to State Immunity)/non state-sponsorship (non-application)
- State of Necessity with attribution of a State act(Art.25 of ARSIWA): self-defense(X), but essential interests, non-State actors(non-attribution of a State Act, due diligence of the State, Norway's approach), interests of international community as a whole(Art.48 of ARSIWA)
- > Self-help for Protection of Cyber Infrastructure on the HS





V. Approach 4: "Consent Regime" by Flag States

- Change of Legal Paradigm on "Freedom of High Seas"
 - non-exercise of flag State jurisdiction : source of conflict → lawful allocation of jurisdiction by consent regime
- "Prior-Consent" by a Flag State on the HS
 - Port State Jurisdiction in sustainable fisheries on the HS (UNFSA, PSMA), non-reciprocity, community interest
 - PSI and National Security: bilateral agreement with FOC (70% of vessels of FOC)
 - Third State Intervention in marine biodiversity on the HS (MPA of BBNJ)
- "Concession of Flag State" and Community Interests on the HS





W. Conclusion

- ➤ Feasibility: Consent Regime → Consistent Practices of Piracy application to SCC (Function of NATO, UN, UNODC...) → Terrorism with non-private ends (attack on SCC on the HS → categorization of SCC as private property, always attack with private ends), grey area between piracy and terrorism
- However, the enforcement by a confiscating State toward foreign warship or governmental ship in its national court by application of tort law (??)
- Comprehensive roadmap to ill-minded approach to SCC on the map (MCS, amendment of 1884, application strategy of piracy by regional security regime)

