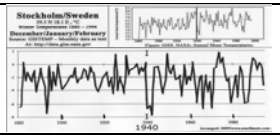
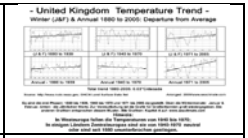
# *L. Index – Bildmaterial*

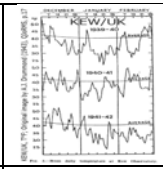
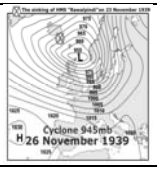
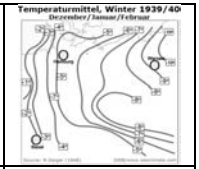
Abkürzungen: T = Temperaturen; NA = Nordatlantik; NH =Nördliche Hemisphäre, SST = Seewassertemperaturen

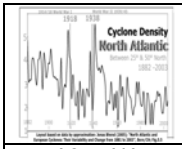
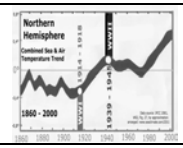
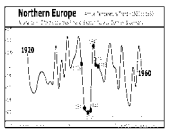
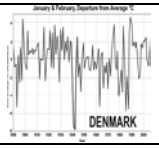
**TEMPERATURKARTEN (TK)**

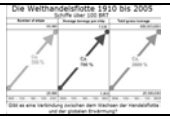
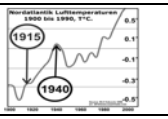
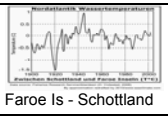
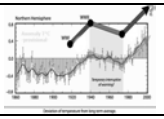

| Seitenübersicht | TK1 (Seite 5) | TK2 (Seite 11) | TK3 (Seite 21 ) | TK4 (Seite 31) |
|---|---|---|---|---|
| TK5 (Seite 45) | TK6 (Seite 51) | TK7 (Seite 71) | TK 8 (Seite 85 ) | TK 9 (Seite 93) |
| TK 10 (107) | TK 11 (Seite 117 ) | TK 12 (Seite 123) | TK 13 (Seite 139) | TK 14 (Seite 147 ) |


## *A. Ein- und Anleitung zum Klimamachen*

| **A1. Der Zweite Weltkrieg und die Kälte** |   |   |
|---|---|---|
| **S.1-2** | A1-1; Stockholm Winter-temperaturen (DJF). | A1-2; Temperatur Trend 1880-2005 |

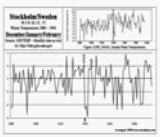
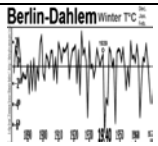
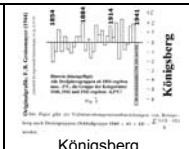
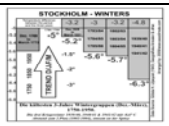
| **A2. Von Experten, die Kriege übersehen.** |   | Temperatur Trend in den Ländern<br>IRE DE BY F AT RO<br>DK SW FI NL CH UKR |   |   |
|---|---|---|---|---|
| **S. 3-8** | A2-1; Kew/UK Winter 40/41/42 | A2a bis A2k | A3-3; Wetter 26. Nov.1939 | A2-4; Winter DE 1939/40 |

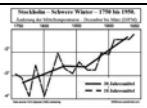
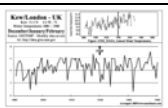
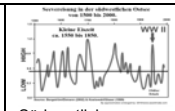
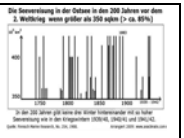
|   | **A3. Wie der Mensch Klima macht - seit 160 Jahren.** |   |   |   |
|---|---|---|---|---|
| A2-5; NA Zyklonenaktivität | **S. 9-18** | A3-1; Nördl. Hemisphere T | A3-2; Nordeuropa | A3-3 Jan/Feb Dänemark |

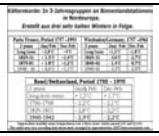
| |   |   |   Faroe Is - Schottland |  |
|---|---|---|---|---|
| A3-4; Meer-Dimension | A3-5; Handels-flotte | A3-6; Temp. Nordatlantik | A3-7; WasserT 1900-2000 | A3-8; NH T-Trend |

| A2-9; Kielwasser | | A2-10; Kielwasser | |
|---|---|---|---|

## *B. Drei aufeinanderfolgende Kaltwinter - Ein Beweis?*

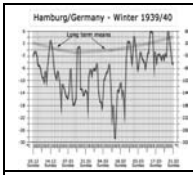
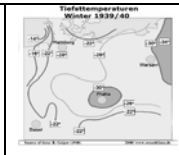
| ***B. Drei aufeinander-folgende Kaltwinter - Ein Beweis?*** |  |   |   Königsberg |   Stockholm |
|---|---|---|---|---|
| **S. 19-28** | B-1; Stockholm Winter T. | B-2; B-Dahlem, Winter T. | B-3; 3-J.-Mittel 1854 bis 1942 | B-4; 1940-42 Stockholm |

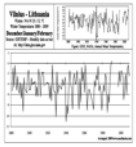
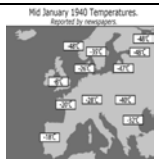
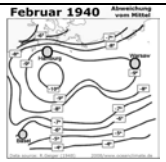
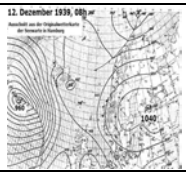
|  Stockholm | |  Kew-Obs / England |  Südwestliche – Ostsee |  |
|---|---|---|---|---|
| B-5; Wärme Trend seit 1750 | B-6; Abw. Süd-Norwegen | B-7; Winter T. | B-8; Seeeis 1500 bis 2000 | B-9; Ostsee-Eis, 1750 bis 1942 |

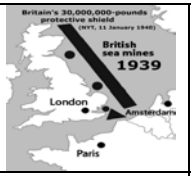
| 3 Kaltwinter Gruppe | | 3 Kaltwinter Gruppe |  |
|---|---|---|---|
| B-10a; Maritime vs Kontinent | B-10b; Inland Stationen | B-11a; Drei See-städte | B-11b; T°C Abweichungen |

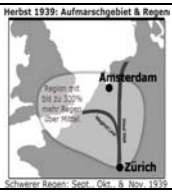
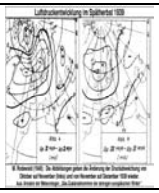
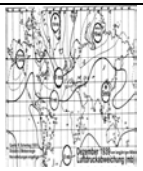
## *C. Winter 1939/40*

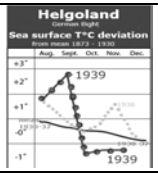
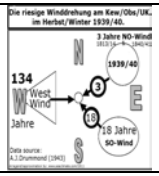
| **C1. Unwissen bringt die Kleine Eiszeit nach Europa zurück.** | | | | |
|---|---|---|---|---|
| **S. 29-32** | C1-1; Kriegs-schiff In Fahrt | C1-2; Aktivitäten Herbst 1939 | C1-3; Wirkung Wasserbombe | C1-4; Potsdam Winter T, 1890+ |

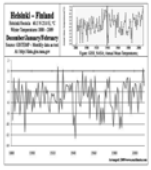
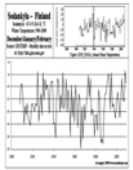
|   |   |
|---|---|
| C1-5; Hamburg Winter 1939/40 | C1-6; DE-Polen Tiefst-Temp. |

| C2. Rekorde, Rekorde, Rekorde – Einführung in das Unerwartete | | | | |
|---|---|---|---|---|
| |  |  |  |  |
| **S. 33-36** | C2-1; Wilna/ Vilnius | C2-2; Jan.T 1940, Europa | C2-3; Feb.1940 | C2-4; Wetter, 12.Dez.1939 |

| C3. Seekrieg 1939 – Fakten und Ereignisse | | | | |
|---|---|---|---|---|
| | |  | | |
| **S. 37-40** | C3-1 Schlachtschiff | C3-2; Seeminen Großbritannien | C3-3, Seemine explodiert | C3-4 Seeminen Deutsche Bucht |

| C4. Heulte der Himmel wegen des Krieges? Regen, trocken, kalt! | | | |
|---|---|---|---|
| |  |  |  |
| **S. 41-48** | C4-1; Regen-gebiet W-Europa | C4-2; Luftdruck Herbst 1939 | C4-3; Luft-druck Dez.1939 |

| C5. Wurde die Westwinddrift vom Land- und Seekrieg blockiert? | | | | |
|---|---|---|---|---|
| | |  | |  |
| **S. 49- 54** | C5_1; Zyklon September 1939 | C5-2; WasserT Helgoland | C5-3; Wind Oktober 1939 | C5-4; Wind S-England |

| C6. Attacke auf das Wetter: der „Winterkrieg“ Russland ./. Finnland | | | | |
|---|---|---|---|---|
| | | |  |  |
| **S. 55-58** | C6-1; T- Helsinki | C6-2; Krieg, 30. Nov.1939 | C6-3; Helsinki DJF seit 1880 | C6-4, DJF-T, Sodankyla |

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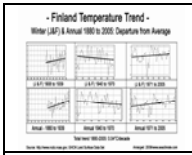
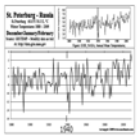
|---|---|
|  |  |
| C6-5, Finnland T-Trend | C4-5 DJF-T St. Petersburg |

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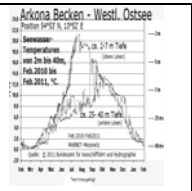
|---|---|---|---|---|
| **C7 Die Ostsee-vereisung beweist es.** | | |  | |
| **S. 59-68** | C7-1, 8. März 1940 | C7-2; Ostsee Bezeichnungen | C7-3; WasserT Arkona-Becken | C7-4; Eis DE-Küste |

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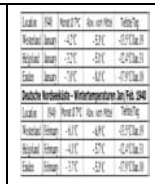
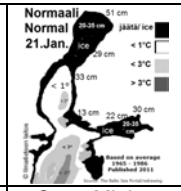
|---|---|---|---|---|
| |  |  | | |
| C7-5; Eis 13.Feb.1940 | C7-6; DE-Küste T-Jan/Feb.1940 | C7-7; Mittlere Eisentwicklung | C7-8 26. Jan. 1940 | C7-9 09.Februar1940 |

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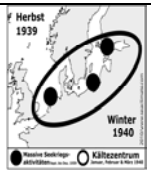
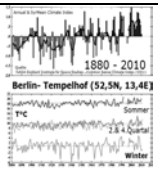
|---|---|---|
| | | |
| C7-10 16.Februar1940 | C7-11, 15. März 1940 | C7-12 12. April 1940 |

| | | | | |
|---|---|---|---|---|
| **C8. Die Kaltschneise über Zentraleuropa – Von London über Berlin gen Osten** |  | | |  |
| **S. 69-76** | C8-1, Seekrieg Herbst 1939 | C8-2; Nordsee Ströme & Salz | C8-3; Nordsee Wasser-T | C8-4; Berlin 1880-2010 |

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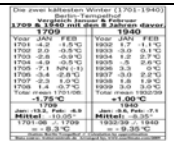
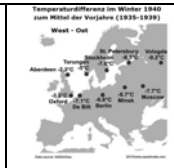
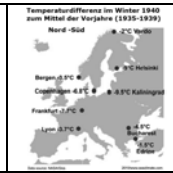
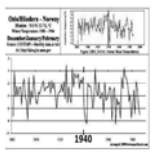
| |  |  |  | **C9. Zum 1. Kriegswinter abschließend** |
| C8-5; Berlin Kaltwinter | C8-6, Berlin 1709 vs 1940 | C8-7; West-Ost Kaltschneise | C8-8; Nord-Süd Kaltschneise | **S. 77-80** |

## *D. Der Winter 1940/41*

| | | | | |
|---|---|---|---|---|
| **Abschnitte a. bis g.** |  | | | |
| **S. 81-90** | D-1; Oslo T°C Winter | D-2; Überfall auf Norwegen | D-3; Flotte in Fjord | D-4; Seegefecht 08. Juni 41 |

Reihe oben: Seite

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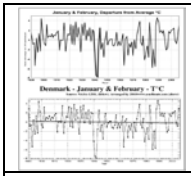
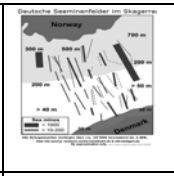
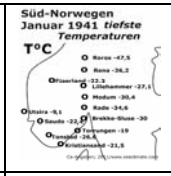
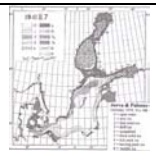
|  |  |  |  | |
| D-5; Dänemark T°C Jan/Feb | D-6; Deutsche Minensperren | D-7; Tiefste T°C Norw. Jan41 | D-8, Eis Ostsee 7. Feb.42 | D-9; Eis Ostsee 11. April 41 |

Reihe oben: Seite

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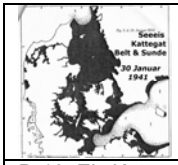
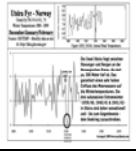
|  | |  | |
| D-10; Eis Katteg 30.Jan.42 | D-11; Eis Katteg 13. März 41 | D-12; Utsira DJF 1880- 1958 | D-13; Zentrum Skagerrak |

## *E. Der Kriegswinter 1941/42*

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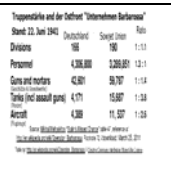
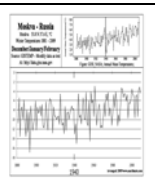
|---|---|---|---|---|
| **E1. Hat der Seekrieg eine Niederlage Russlands verhindert** | |  | |  |
| **S. 91-96** | E1-1 Ostfront 22. Juni 1941 | E1-2 Truppen-stärke | E1-3; Schweden T°C Jan-Mär.42 | E1-4; Moskau DJF, 1880-2010 |

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| | **Kattegat Eiskarten wie E1-5 für:**<br>2. Feb<br>14.Feb<br>27.Feb<br>14. & 30. März<br>12. Apr | | **E2. Unternehmen „Barbarossa“ und als Appendix der Krieg in der Ostsee** | <br>Auszug aus NYT 11.Jan.42 |
| E1-5; Eis Kattegat 21. Jan. 42 | E1-6a bis 6g | | **S. 97-100** | E2-1 |

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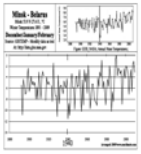
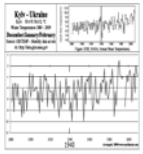
|---|---|---|---|---|
| **E3. Das Wetter macht Front gegen die Ostfront im Herbst 1941** | | |  |  |
| **S. 101-104** | E3-1, Ostsee Herbst 1941 | E3-2, Ostsee Herbst 1941 | E3-3, Minsk DJT, 1890-2099 | E3-4, Kiew DJF, 1880-2009 |

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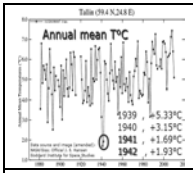
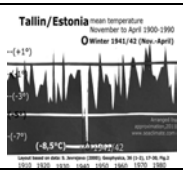
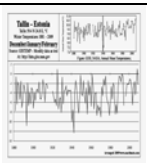
|---|---|---|
|  |  |  |
| E3-5, Tallinn Jahres T°C | E3-6, Tallinn Nov-Apr. T°C | E3-7, Tallinn DJF |

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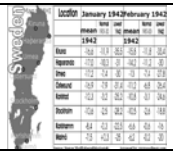
|---|---|---|---|---|
| **E4 Das Winterwetter in Europa 1941/42** | | |  | |
| **S. 105-108** | E4-1, England Schnee 40-42 | E4-2, Ostsee 6-Mon.Kälte | E4-3, Schweden T°C Stationen | E4-4 Stockholm Rekord-Jahre |

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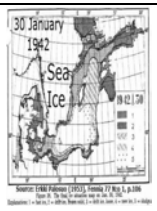
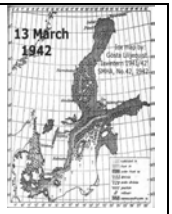
|---|---|---|---|---|
| **E5. Welche Beweise bietet die Ostsee-vereisung an?** | |  | |  |
| **S. 109-112** | E5_1, Kattegat Eis 02. Feb. 1942 | E5_2, Ostsee 30. Jan. 1942 | E5-3; Ostsee 11. Feb.1942 | E5-4, Ostsee 13. März 42 |

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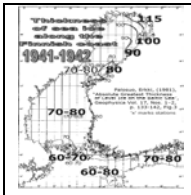
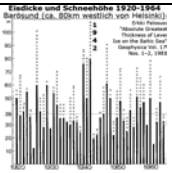
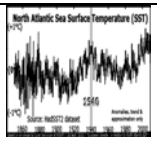
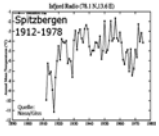
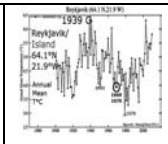
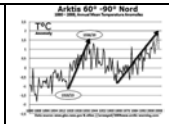
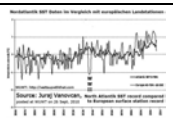
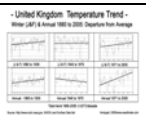
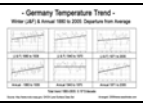
|  |  | **E6 Zusammen-fassung: Klimaforschung mit Winter 1941/42 leicht gemacht** | **F. Fehlende Fakten. Fehlende Begründung. El Niño machte keinen extrem kalten Winter.** | |
| E5-5, Bottn-Meer Eisdicke 1942 | E5-6; S-Finnland Eisdicke & S. | **S. 113-114** | **S. 115-120** | F-1; El Niño |

## *F. Fehlende Fakten. Fehlende Begründung. El Niño machte keinen extrem kalten Winter*

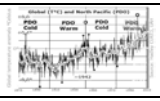
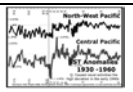
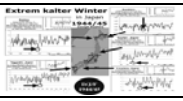
## *G. Abkühlung durch den Atlantik von 1940 bis 1970?*

| **G1. Drei Dekaden Kühlung ungeklärt** |  |  |  | **G2. Was bedeutete die Schlacht im Atlantik für das Seegebiet?** |
|---|---|---|---|---|
| **S. 121-126** | G1-1; SST Nordatlantik | G1-2; T°C Jahr Spitzbergen | G1-2; T°C Jahr Reykjavik | **S. 127-130** |

| **G3. Der Anstoß zur globalen Abkühlung** |  |  |  | |
|---|---|---|---|---|
| **S. 131-134** | G3-1; T°C Arktis 1880-2008 | G3-2; Vergl. NA & Europa | G3-3; T°C Trend England | G3-4 T°C Trend Irland |

|  | | |
|---|---|---|
| G3-5; T°C Deutschland | G3-6; T°C Ukraine | G3-3; Div. NA Stationen T°C |

## *H. Der Beitrag des Pazifikkriegs zur Abkühlung*

| **Abschnitte a-i** |  |  | |  |
|---|---|---|---|---|
| **S. 135-144** | H1; PDO Trend | H-2, SST | H-3; Ströme | H-4; Div. Stationen |

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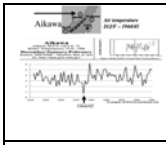
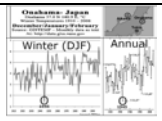
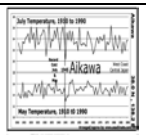
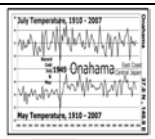
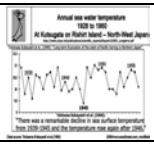
|  |  |  |  |  |
| H-5; T°C, DJF Aikawa | H-6; T°C, DJF Onahama | H-7, Aikawa Mai , &Juli | H-8; Onahama Mai & Juli | H-9; SST, NW Japan |

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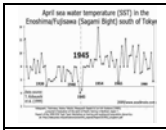
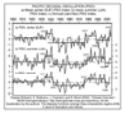
|  | | | |  |
| H-10; SST, SO Tokio, April | H-11 | H-12 | H-13 | H-14a; PDO Analyse |

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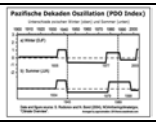
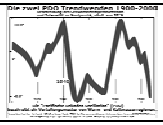
|  |  | |
| H-14b; PDO Analyse | H-15; PDO | H-16; Kriegsfront per 1 Jan. 1945 |

## *I. Die Erwärmung vor der Abkühlung – Die Spur zum 1. Weltkrieg*

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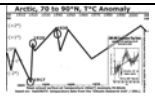
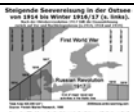
|---|---|---|---|---|
| **Abschnitte a-e** |  | | |  |
| **S. 145-156** | I-1; Arktis 1900-2000 | I-2; Spitzbergen Jahreszeiten | I-3a bis I-3d Mar/Apr/Mai/Juli | I-4; Ostseeeis 1914 bis 1919 |

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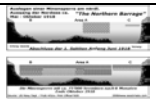
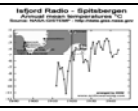
| | |  |  | |
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## *J. Ergebnis (S. 157 - 158)*

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**Überblick zu früheren Ausarbeitungen und Links:**

____ Bernaerts, Arnd (1988), Reprint (2005); „Bernaerts' Guide to the Law of the Sea', Coulsdon/UK (1988) bei: TRAFFORD Publication Victoria,BC/Kanada (2005).

____Bernaerts, Arnd, (1992); 'Voraussetzungen für den globalen Klimaschutz aus der Sicht eines Nautikers und Juristen", Verein der Freunde und Foerderer des GKSS-Forschungszentrums Geesthacht e.V. : ISSN 0934-9804. Seiten 42. (Auch: www.ozeanklima.de, linke Spalte "GKSS Vortrag 1992").

____Bernaerts, Arnd (1992), 'Climate Change', Letter to Editor, in Nature, Vol. 360, 1992, p. 292. (www.oceanclimate.de, Previous Essays).

____Bernaerts, Arnd (1994); "Legal means for understanding the marine and climate change issue", in: Thomas A. Mensah (ed), "Ocean Governance: Strategies and Approaches for the 21st Century", Proceedings The Law of the Sea Institute, 28th Conference, Hawaii, 1994, pp. 156 – 180. (www.oceanclimate.de, Previous Essays).

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____Bernaerts, Arnd (2005); "Climate Change & Naval War", Trafford/CA, Seiten 325. http://www.seaclimate.com/ & http://climate-ocean.com/

____Bernaerts, Arnd (2008); " Ein Großversuch in Klimasachen – Der Extrem-Winter 1939/40 und die Klimaforschung"; http://www.ozeanklima.de/ , linke Spalte, ca. 15 Seiten.

____Bernaerts, Arnd (2009); "Arctic Heats Up – Spitsbergen 1919-1939", Bloomington/USA, sowie: "How Spitsbergen heats the world", Norderstedt bei Hamburg http://www.arctic-heats-up.com/ , http://www.arctic-warming.com/, ca. 107 Seiten

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(B) Pacific Congress on Marine Science & Technology (PACON) 22nd International Conference, 1-5 June 2010, University of Hawai`i at Hilo, Hilo, Hawai`i USA.

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*Der Autor: Arnd Bernaerts,*
*Dr. jur., war zunächst Seemann, Nautiker und Schiffskapitän und anschließend Jurist, Anwalt und internationaler Berater.*

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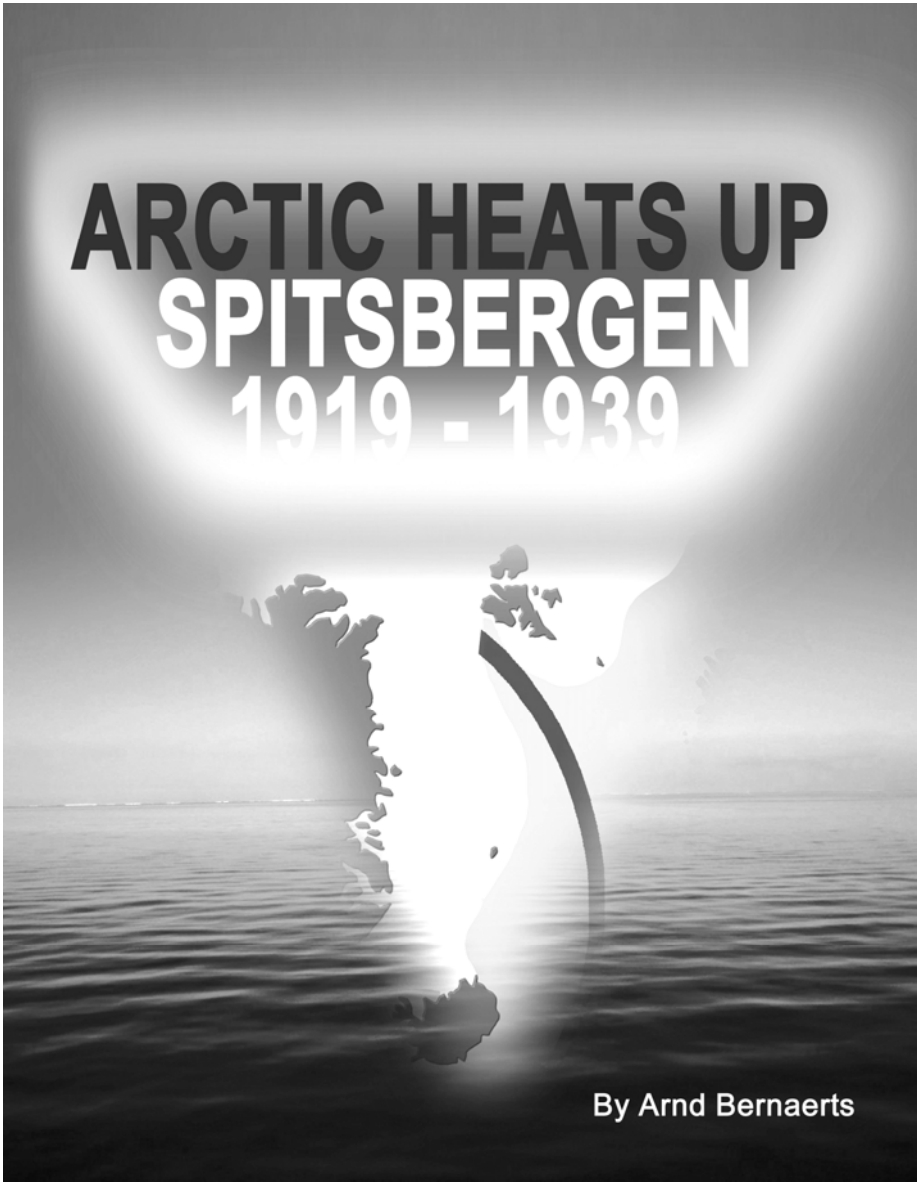


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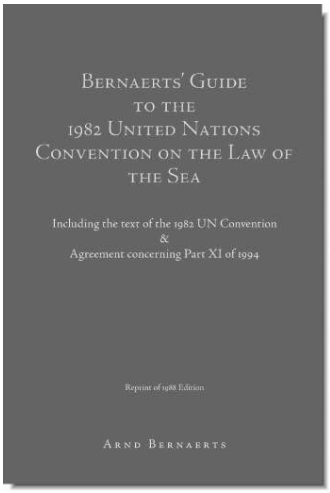


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