Environmental Change and its impacts on National Security
Changement environnemental et ses impacts sur la sécurité nationale

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Centre for National Security Studies, Toronto, 12 February 2018
Geography makes history / La géographie fait l'histoire

Edinburgh Castle, Scotland

Meherangarh Fort, India

Halifax Citadel, Canada

Rakvere Catle, Estonia
River trade / Commerce fluvial
Montréal 1851 (avec/with Fort Sainte-Helene 1820s)
Montréal 2018
Hong Kong & La Guardia airports/aéroports
Port or airport? Port ou aéroport?

Nepal, 2017

La Guardia, Sandy, 2012

Australia, 2017

Aberdeen, 2015

Acapulco, 2013

Delhi, 2013

Dallas-Fort Worth, 2015

Bangkok, 2011

Queensland, 2012
Rapport du ministère de la Défense sur les risques liés au climat pour l’infrastructure DoD

Department of Defense
Climate-Related Risk to DoD Infrastructure
Initial Vulnerability Assessment Survey
(SLVAS) Report

January 2018

Office of the Under Secretary of Defense for Acquisition, Technology, and Logistics

Map 7 - Sites that Indicated Effects from Multiple Vulnerability Areas (Flooding, Extreme Temperatures, Wind, Drought, Wildfire)
Rapport: La moitié des sites militaires américains sont vulnérables au changement climatique

Half of the US Military’s Sites Are Vulnerable to Climate Change. Now What?

Homested AFB, 1992

Keesler AFB, 2005

Millington, Tenn, 2010
Chemins des ouragans 1851-2005
Geostrategic/que = geopolitical/que + geoeconomic/que + geo-physical/que
Geostrategic/que = geopolitical/que + geoeconomic/que + geo-physical/que
Geostrategic/que = geopolitical/que + geoeconomic/que + geo-physical/que

Halford Mackinder, 1904
Battle of Japan/guerre russo-japonaise; Baltic Fleet/Flotte de la Baltique
Geostrategic/que = geopolitical/que + geoeconomic/que + geo-physical/que

HOW CHINA’S POLAR SILK ROAD CAN MAKE CANADA THE NEXT BIG ASIAN POWER

Ottawa has much to gain by forming closer ties to Beijing as China unveils its first Arctic Policy

BY IRVIN STUDIN
3 FEB 2018
Geopolitical Articles of Faith (GAF) / articles de foi géopolitiques
D’ici 2022, l’économie chinoise va-t-elle croître/stagner/diminuer?

Will China’s economy grow/stagnate/collapse by 2022?
Australia should "cut the tag" with American foreign policy after Trump win says Keating

Former Australian PM Paul Keating (1992-1996)
US 'stunned' by Port of Darwin sale to Chinese

Richard Armitage, a former United States Deputy Secretary of State, said he was "stunned" that Australia blindsided the US on a decision to allow a Chinese company with alleged links to the People's Liberation Army to lease the Port of Darwin.

"I couldn't believe the Australian defence ministry went along with this," Mr Armitage told The Australian Financial Review in an interview.

"And I was further stunned to find out that apparently this did not come up in the A-US talks [Australia-United States Ministerial Consultations]."

Mr Armitage's comments come amid growing controversy about the $506 million deal between the Northern Territory Government and the Chinese Company, Landbridge Corporation to lease the Port of Darwin for 99 years. The furor comes ahead of final bids being lodged for the $9 billion purchase of the NSW electricity grid, which also includes the purchase of sensitive optic fibre cables used by the defence establishment.
L'Australie lutte contre l'influence politique chinoise
Will the US militarily defend Indo-Pacific allies in a time of crisis?

Est-ce que les États-Unis vont défendre les alliés Indo-Pacifique dans un temps de crise?
Indo-Pacific/que
Figure 5. Conventional Anti-Access Capabilities. The PLA’s conventional forces are currently capable of striking targets well beyond China’s immediate periphery. Not included are ranges for naval surface- and sub-surface-based weapons, whose employment at distances from China would be determined by doctrine and the scenario in which they are employed.
« l'Amérique ne nous protégera pas, prévient Rudd »

MAY 2 2009

America will not protect us, warns Rudd

Jonathan Pearlman Defence Correspondent

THE Rudd Government has acknowledged that the supremacy of the US has begun to fade and Australia is preparing for an uncertain future in which it can no longer rely on the protection of its main ally.
In this article for the Australian Journal of International Affairs, the Lowy Institutes
International Security program director Rory Medcalf argues that Indo-Pacific Asia is a
suitable regional concept for Australia's strategic needs. Indo-Pacific Asia can best be
understood as an expansive definition of a maritime super-region centred on
South-East Asia, arising principally from the emergence of China and India as outward-
Asia’s Democratic Security Diamond

TOKYO – In the summer of 2007, addressing the Central Hall of the Indian Parliament as Japan’s prime minister, I spoke of the “Confluence of the Two Seas” – a phrase that I drew from the title of a book written by the Mughal prince Dara Shikoh in 1655 – to the applause and stomping approval of the assembled lawmakers. In the five years since then, I have become even more strongly convinced that what I said was correct.
Face à la Chine, l'axe Inde-Japon se renforce

Au-delà de la lutte contre la piraterie, le partenariat Inde-Japon dans les domaines sécuritaires et économiques vise à contrer une Chine perçue comme menaçante. L'exercice naval du 29 janvier en témoigne.
India becomes first country to have its special cell inside the Pentagon

Pentagon, the headquarters of the United State's Department of Defence, has established a special cell to speed up its defence ties with India. The move will speed up the process of co-development and co-production of its hi-tech military equipments.
• ‘Quad’, Raisina Dialogue, Jan. 2018. Admiral Katsutoshi Kawano (Chief of Staff, Joint Staff, Japan; Vice Admiral Tim Barrett, Chief of Navy, Australia; Admiral Sunil Lanba (Chief of Naval Staff, India); Admiral Harris (Commander, US Pacific Command). Dino Patti Djalal, founder of the Foreign Policy Community of Indonesia
Figure 5. Conventional Anti-Access Capabilities. The PLA’s conventional forces are currently capable of striking targets well beyond China’s immediate periphery. Not included are ranges for naval surface- and sub-surface-based weapons, whose employment at distances from China would be determined by doctrine and the scenario in which they are employed.
« Concept de défense de chaîne de l'île »
UN Convention on the Law of the Sea (UNCLOS)
Convention des Nations Unies sur le droit de la mer
UN Convention on the Law of the Sea (UNCLOS)
Convention des Nations Unies sur le droit de la mer
UN Convention on the Law of the Sea (UNCLOS)
Convention des Nations Unies sur le droit de la mer

200 miles
UN Convention on the Law of the Sea (UNCLOS)
Convention des Nations Unies sur le droit de la mer
Fiery Cross Reef (Spratley) 08/2014 – 01/2015

Before and after satellite images taken in August 2014 and January 2015 show the emergence of a large island at Fiery Cross Reef in the South China Sea’s Spratly Islands. China is building a number of artificial islands in the hotly disputed body of water.
‘Third Island Chain’ «troisième chaîne insulaire»
Some maritime boundaries have yet to be legally determined.
Quelques frontières doivent encore être légalement déterminées.
Sous-marins vendus par DCNS à l’Australie : les coulisses d’un contrat « historique »

LE MONDE | 26.04.2016 à 04h46 • Mis à jour le 26.04.2016 à 17h45
Par Dominique Gallois et Caroline Taïx (Sydney, correspondance)

Les sous-marins australiens Collins seront bientôt remplacés. | CPOIS DAVID CONNOLLY / AFP
Some maritime boundaries have yet to be legally determined.
Quelques frontières doivent encore être légalement déterminées.
« Comment la France a coulé le rêve sous-marin du Japon »

How France sank Japan's $40 billion Australian submarine dream
Oceania/Océanie

- 14 Pacific Island Countries / 14 pays du Pacifique
- 10-12 million population / 10-12 millions d'habitants
- 1/6th planet’s surface / 1/6ème surface de la planète
- Largely peaceful, relatively educated / Largement paisible, relativement instruit
- Mostly English/French speaking / Surtout anglophone/francophone
- Were solidly ‘West’ friendly, now looking for friends / Étaient solidement «West» amical, maintenant à la recherche d'amis
End of History Syndrome: 2006 UK closes Tonga, Kiribati, Vanuatu
Syndrome “Fin De L’Histoire”: 2006 Royaume-Uni ferme Tonga Kiribati Vanuatu

NZ 'Britain's eyes and ears in the Pacific'

By Audrey Young
5:15 AM Thursday Mar 30, 2006

New Zealand will increasingly become the ears and eyes for Britain in the region as Britain's presence wanes and China's increases, respective Prime Ministers Tony Blair and Helen Clark indicated yesterday.

And the communication will be formalised in a new annual security dialogue – at present at senior official level – that the pair signed off on during bilateral talks in Auckland.

The first will be held in London later in the year and involve senior Foreign Affairs officials.

Mr Blair and his wife, Cherie, left for Indonesia last night.

While there was no powhiri on his entry to New Zealand, Mr Blair was given one by school children in Mangere shortly before leaving.

Mr Blair and Helen Clark held a press conference after their talks at which Mr Blair said it was important that Britain had "a friend in this region who can help and advise us on the regional issues that are of immense importance".

Speaking to the Herald last night, Helen Clark would not accept the label of "deputy" in the way that Australia wears it in relation to the United States.

"A friend in the region would be a reasonable description."
China in Oceania / Chine en Océanie

- Seabed mining, fisheries, satellite launch slots, etc. Exploitation minière des fonds marins, pêche, lancement de satellites, etc.
- Former USPACOM Chief Admiral Samuel Locklear: “Five trillion dollars of commerce rides on the (Asia Pacific) sea lanes each year, and you people are sitting right in the middle of it.” L'ancien amiral Samuel Locklear de l'USPACOM: "Chaque année, cinq mille milliards de dollars de commerce circulent sur les routes maritimes (Asie-Pacific), et vous êtes assis au beau milieu de la mer."
- China has people on the ground. Many others rely on Canberra and Wellington for guidance. La Chine a des gens sur le terrain. Beaucoup d'autres comptent sur Canberra et Wellington pour les guider.
« La Chine heureuse d'aider Fidji à établir une nouvelle base navale »

China Happy To Help Fiji Set Up A New Navy Base

The Chinese Ambassador to Fiji, His Excellency Zhang Ping, (LEFT) and Prime Minister Voreqe Bainimarama look through the photographs at the Grand Pacific Hotel yesterday. PHOTO JONA KONATACI.
Le passé lié à l'espionnage du législateur néo-zélandais suscite des inquiétudes à propos de la Chine.
« Les Îles Salomon accusent la Nouvelle-Zélande de transmettre des informations d'espionnage à la Chine »

Solomon Islands accuse NZ of passing spy info to China

Updated at 7:25 am on 22 March 2015

Originally aired on Sunday Morning, Sunday 22 March 2015

Former officials in the Solomon Islands' Prime Minister's Office accuse New Zealand of passing on information about the Solomons to China, in the wake of spying revelations.
China talks look at Tahiti as link to South America

6:35 pm on 10 July 2013

A senior advisor of the French Polynesian government says talks have been held with China to explore the viability of using Tahiti as a transit point for air travel to South America.

Tahiti to ease visa terms for Chinese

1:38 pm on 26 May 2014

The French Polynesian government says visa requirements for Chinese passport holders are about to be lifted for those staying less than 15 days.

Aquaculture project launched in Hao in French Polynesia

Share this

1:59 pm on 8 May 2013

The French Polynesian government and Chinese investors have formally launched a massive aquaculture project on Hao atoll, expected to cost 1.5 billion US dollars.
At least 3 Yuan Wang class tracking ships visit Tahiti in 5 years / Au moins 3 visites de classe Wang Yuan à Tahiti en 5 ans
Some maritime boundaries have yet to be legally determined.
Quelques frontières doivent encore être légalement déterminées.
3 geos in action / 3 géos en action
2002: geopolitical/que
China Dismantling Pacific Station In Row Over Taiwan Recognition

Auckland (AFP) Nov 27, 2003
Chinese technicians were dismantling a satellite tracking station in the mid-Pacific nation of Kiribati, state-owned radio reported, after the country opened diplomatic ties with Taiwan.

Radio Kiribati said a Chinese ship had arrived in Tarawa Tuesday and workers were dismantling the satellite station, on the eastern end of the island, which Beijing has maintained since 1997.

Government officials could not be reached for confirmation.

Kiribati President Anote Tong earlier this month announced his country was opening diplomatic ties with Taiwan, sparking protests from China, which regards Taiwan as a renegade province.

China continues to maintain its mission on Tarawa but its ambassador Ma Shuxue told Radio Kiribati that Beijing would suspend relations next week if ties were maintained with Taiwan.
2003: geopolitical/que
Les îles Kiribati vont-elles déménager aux Fidji ?

Le président de cet État d’Océanie cherche une terre d’accueil pour ses habitants, menacés par la montée des eaux.

PAR LOUISE CUNEO

Modifié le 09/03/2012 à 10:58 - Publié le 08/03/2012 à 12:44 | Le Point.fr
Future?
Shanghai
Evacuations From China’s South-Eastern Coast / Evacuations de la côte sud-est de la Chine

- 2005 (July), Typhoon Haitang.
  - Around 1,000,000 evacuated.
- 2005 (September), Typhoon Talim.
  - Over 790,000 evacuated from.
- 2006 (May), Typhoon Chanchu.
  - Over 1,000,000 evacuated.
- 2006 (July), Typhoon Bilis.
  - Around 320,000 evacuated.
- 2007 (September), Typhoon Wipha.
  - Around 2,000,000 evacuated.
- 2007 (October), Typhoon Krosa.
  - Over 1,400,000 evacuated.
- 2008 (July), Typhoon Fung-Wong.
  - Around 600,000 evacuated.
- 2008 (September), Typhoon Sinlaku.
  - Around 460,000 evacuated.
- 2009 (August), Typhoon Morakot.
  - Around 1,000,000 evacuated.
- 2010, Typhoon Megi.
  - Around 270,000 evacuated from.
- 2011 (August), Typhoon Muifa.
  - Around 1.35 million evacuated.
  - Dalian chemical plant toxic waste containment pool breached, leading to demonstrations and political unrest.
- 2012 (August), Typhoons Saola and Damrey.
  - Around 867,000 people evacuated.
- 2012 (August), Typhoon Haikui.
  - Almost 2 million people evacuated.
- 2013 (August), Typhoon Utor.
  - Shut down Hong Kong, sunk cargo ship, affected veg prices.
- 2014 (July) Super Typhoon Rammasun.
  - Over 700,000 evacuated.
- 2015 (July), Typhoon Chan-Hom.
  - Over a million evacuated.
Geography makes history...

But environmental change is remaking geography

La géographie fait l'histoire ...

Mais le changement environnemental est en train de refaire la géographie
Thank you   Merci