

Twilight Panel: Grounding of the Solomon Trader (or) Canary Dies in Bauxite Mine

Chair

Prof Jennifer Corrin, UQ Solomon Islands Partnership

Panel

Assoc Prof Ian Tibbetts School of Biological Sciences, UQ Mr Stefan Armbruster, SBS News and Current Affairs Prof Craig Forrest, TC Bierne School of Law, UQ



Approach

Ian – Geography, geology and demography
Stefan – The incident
Craig – The legal position
Ian – Causes and effects





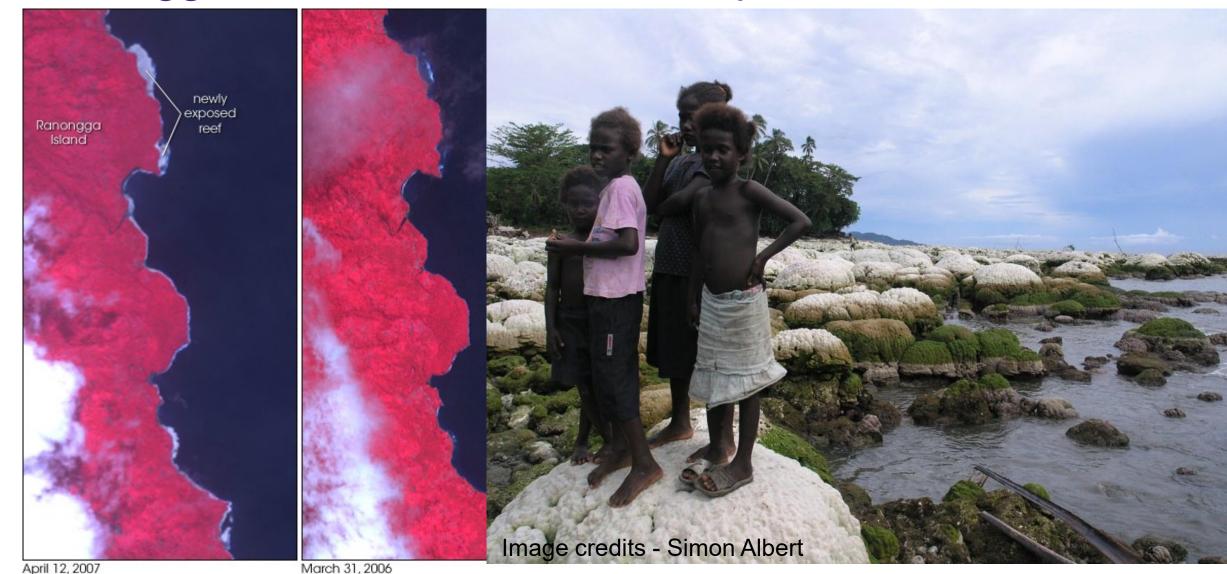
Penrhyn Atoll – Cook Islands



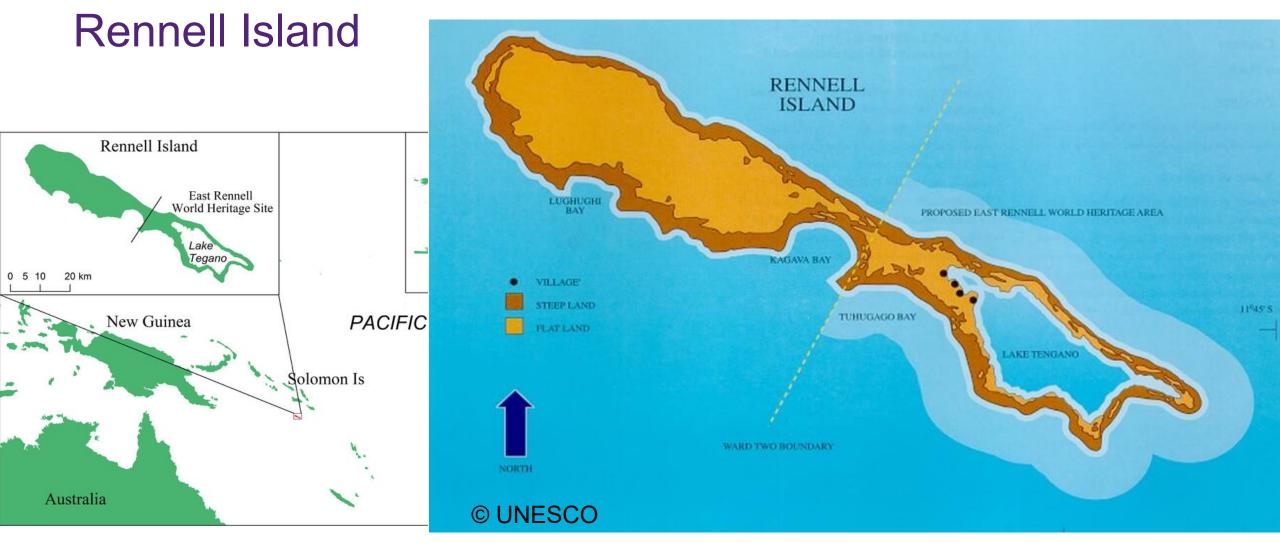
By EwanSmith - Own work, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=6387424



Ranongga Island after an 8.1 earthquake







from Wang M et al (2018). Monitoring vegetation dynamics in East Rennell Island World Heritage Site using multi-sensor and multi-temporal remote sensing data. International Journal of Digital Earth. 1-17. 10.1080/17538947.2018.1523955.

[UQSIP/MASLU] | [June 2019]

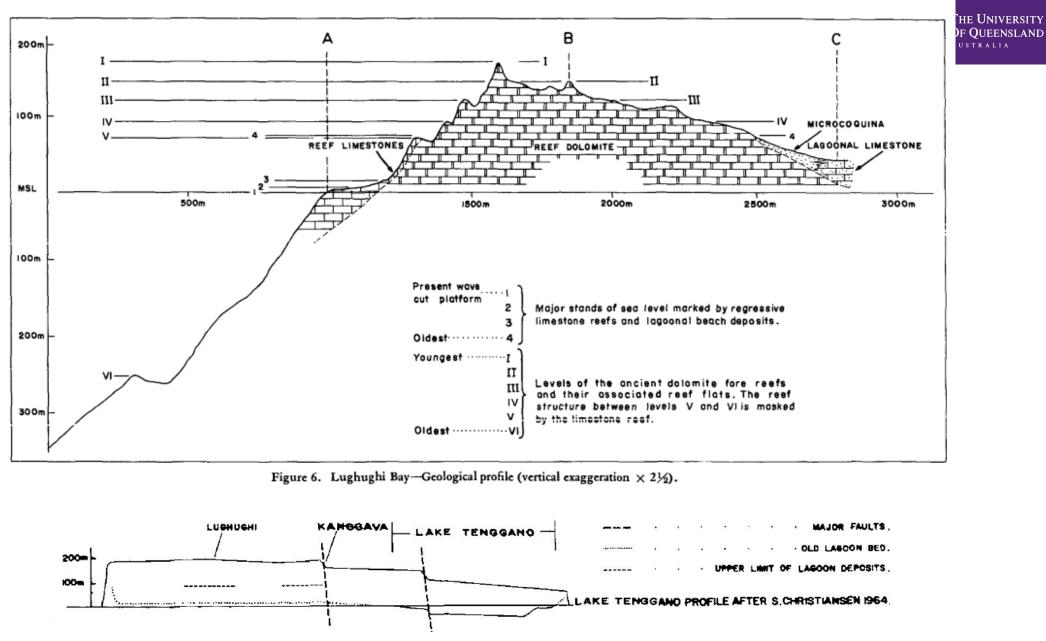
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An uplifted atoll

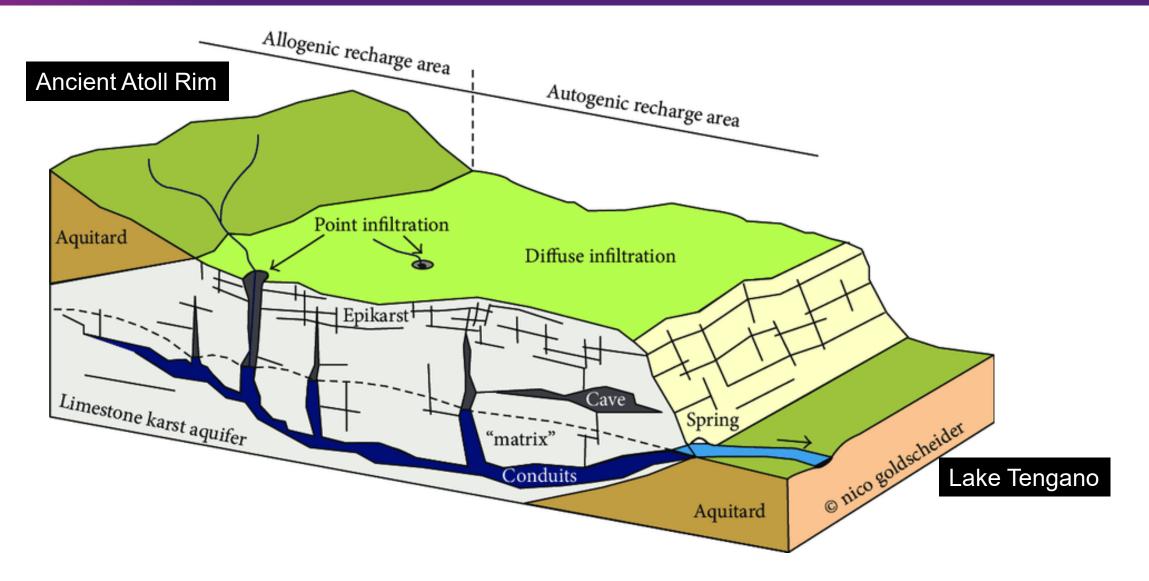






Taylor GR (1973) GSA Bulletin 84: 2795-2806





Atangana, A (2014). A modified groundwater flow model using the space time Riemann-Liouville Fractional Derivatives Approximation. *Abstract and Applied Analysis.* 2014. 8. 10.1155/2014/498381.

Steep drop offs surround 95% of Rennell







Island and People of Rennell

86km long and 15km wide

250km south of Honiara

Rennell is the largest raised atoll in the world

Lake Tengano at 15,000ha is the largest lake in the insular Pacific

Polynesian outlier populated from New Caledonia region

Population ca 2000

Provincial capital: Tigoa (popn 170)

Religion: SSEC in the east and SDA in the west

Medical: 2 basic clinics

Industry: logging and mining (bauxite)

Subsistence: gardens, Lake Tengano fish (tilapia and eels), marine fish and shellfish



Norman H Hardy's Tattooed women of Rennell Island, 1911.



Munch-Petersen N.F. (2011) An Island Saved *in* Island Futures. Global Environmental Studies.

Food from gardens and fishing, supplemented by hunting and collecting.

Yams, taro, tannia and sweet potatoes and coconut important for nutrients and raw material.

Women cook and garden, fishing inshore (on the narrow reef), plaiting, making nets, and caring for young children.

Men do the heavy gardening, catch coconut crabs, fish, make cordage, and are responsible for canoe making and house building.







Kagava Bay

- White beaches
- Shallow fringing reef
- Great snorkelling

Lake Tengano

- Brackish
- Fish rich
- Vulnerable



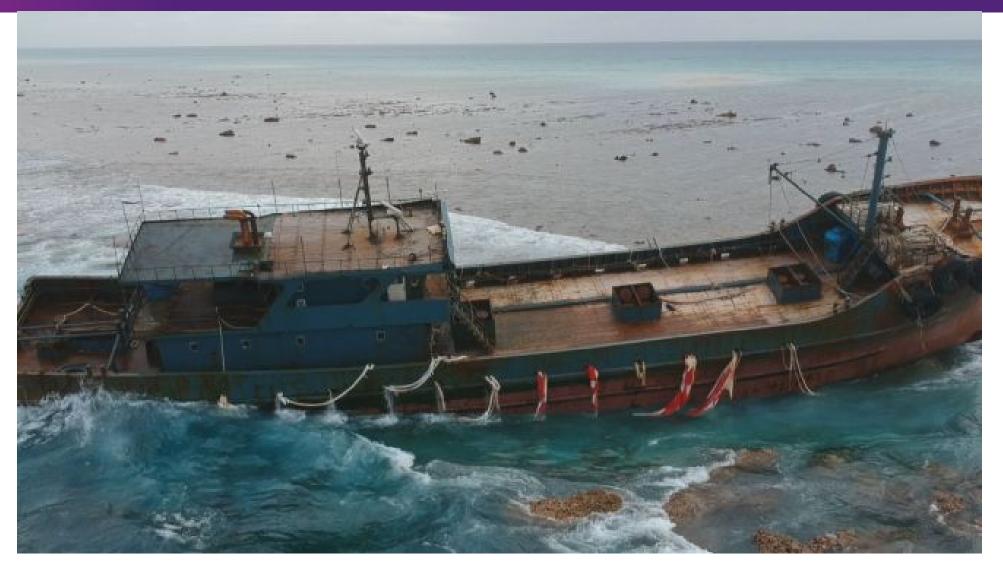


Stefan (The Event)

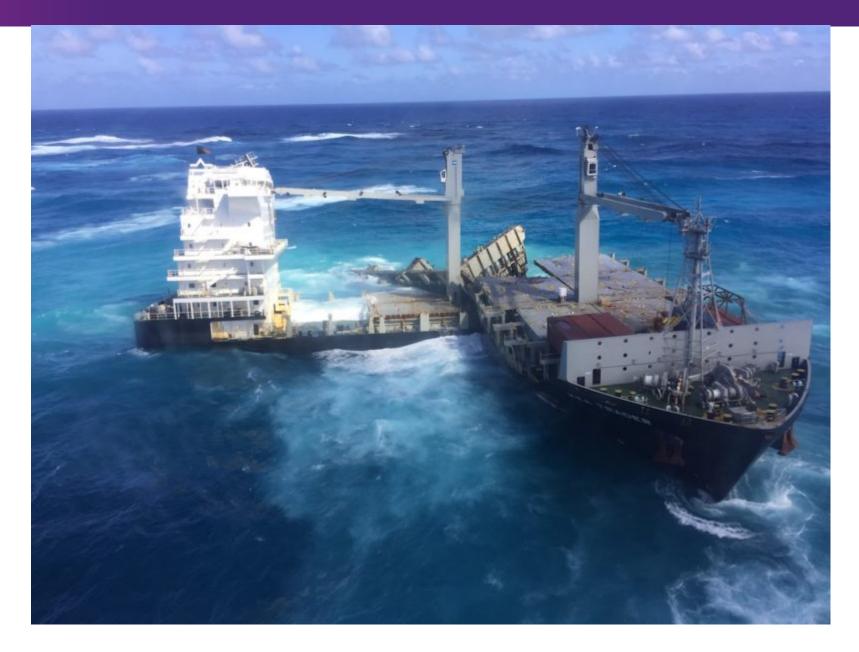














https://www.sbs.com.au/news/ship-owner-sorry-for-solomons-oil-spill-amidliability-concerns

https://www.newshub.co.nz/home/world/2019/03/exclusive-solomon-islanders-feelforgotten-after-devastating-oil-spill.html

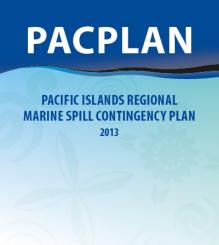


Craig (The Legal Position)



Pacific Pollution Plan (PACPLAN)

A SPREP (South Pacific Regional Environment Plan) with the AIM to prevent/minimise damage to marine and coastal environments and resources from marine spills, and to provide systems, frameworks and guidelines to assist with response and recovery of the environment and resources damaged by marine spills in the Pacific islands region.

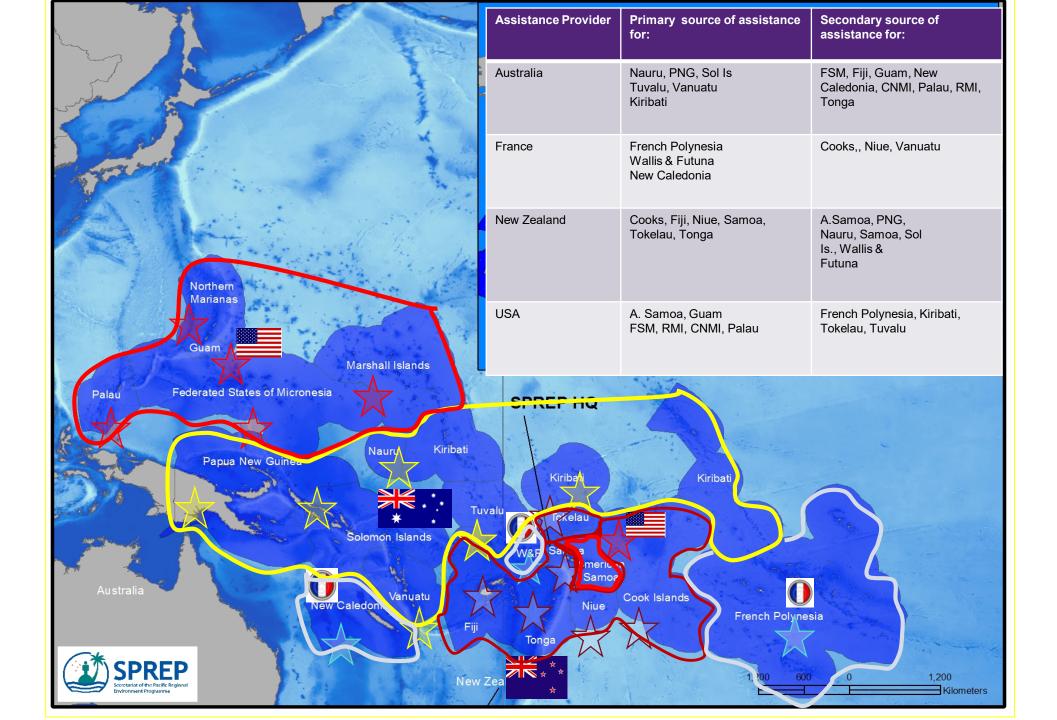






Pacific Pollution Plan (PACPLAN)

- Plan to foster cooperation, training, detection and reporting of oil spills
- Outlines the mechanism and procedures by which SPREP island members (Solomon Islands) may request assistance from each other, from SPREP metropolitan members (Australia) or from industry (assistance from Australia)
- Facilitate actions and cooperation consistent with the Noumea Pollution Protocol 1986, the OPRC Convention and the OPRC-HNS Protocol at the operational level by all SPREP members (in context of existing international law)
- Provides guidance for the recovery of costs of responding to marine spills (with provisions for cost recovery by those providing assistance)





International Pollution Laws

- 1969 Intervention on the High seas (1973 Protocol)
- 1973/1978 MARPOL Convention
- 1990 Oil Pollution Preparedness, Response and Co-operation
- 1969/1992 CLC Convention (Civil Liability for Oil Pollution)
- 1971/1992 Fund Convention for Oil Pollution
- 1996/2010 Hazardous and Noxious Substances Convention
- 2001 Bunker Convention
- 2007 Wreck Removal Convention



International Conventions

As at May 2018	INTERVENTION Convention 69	INTERVENTION Protocol 73	CLC Convention 69	CLC Protocol 76	CLC Protocol 92	FUND Protocol 76	FUND Protocol 92	FUND Protocol 2003	LLMC Convention 76	LLMC Protocol 96	OPRC Convention 90	Salvage Convention 1989	HNS Convention 96	HNS PROT 2010	OPRC/HNS 2000	BUNKERS CONVENTION 01	NAIROBI WRC 2007	NOUMEA Protocol
Australia	Y	Y	d	Y	Y	Y	Y	Y	d	Y	Y	Y			Y	Y		
Kiribati					Y		Y		Y			Y				Y		
Nauru																		Υ
Papua New Guinea	Y		d		Y		Y											Y
Solomon Islands					Y											X		Y
Tuvalu			d	Y	Y		Y		Y	Y						Y	Y	
Vanuatu	Y	Y	d	Y	Y	Y	Y		Y		Y	Y			Y	Y		



Bunker Convention 2001

Three core principles

- 1. Strict (but limited) liability of ship-owner
- 2. Compulsory insurance
- 3. Direct action against insurer



Bunker Convention 2001

What could have been application to MV Solomon Trader

- 1. No need to prove negligence or some other basis for liability
- 2. Compulsory insurance (exists in form of P&I club Korea P and I club)
- 3. Direct action against insurer (action taken directly against P&I club (Korea P and I) rather than shipowner (South Express/King Trader)



Causes and Effects (lan)



Bauxite and Rennell

Asia Pacific Investment Development (APID) a logging company Bintan Mining (Indonesia) operates the bauxite (karst bauxite) mine for APID Solomon Trader was picking up a load of bauxite when it grounded Chief Joshua Na'siu is the chief of Aba'tai (Abatai) village: "...allowed the company to dig up his gardens to mine for bauxite" (Radio New Zealand, 13 May, 2019)



Causes and effects

Causes

- Corrupt progression from logging to mining
- Poor infrastructure
- About 300 tonnes bunker oil, diesel, spread some 600 kilometres away
- Bauxite was dumped from 2 barges into the bay to protect them from the cyclone

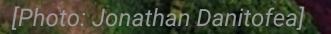
Effects

- Bauxite has contributed to the odious smell, killing fish and marine life
- Loss of gardens
- Loss of forest
- Loss of graves and cultural icons
- Contamination of the aquifer
- Damage to corals, fish and invertebrates

Bauxite mining

[Photo: David Maurice Smith for The New York Times]

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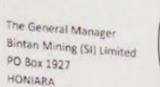


[Source: Island Sun]

UQSIP/MASLU

"Observations from last couple of weeks indicate the reefs are in much worse condition (likely more bauxite-related than oil).

Seems the area has always had a high disturbance regime (cyclones/bleaching?/disease?) but its capacity to bounce back now that algal turf cover substrate etc is diminished. We also found bauxite covering the bay (Kagava) down to several hundred meters" (in email June 26 2019)



THE PRIME MINISTER

Dear Sir.

ACKNOWLEDGEMENT FOR SERVICE TO THE PEOPLE OF SOLOMON ISLANDS

I have been watching with keen interest the challenges that your mining operations in the country had to go through in the formative period of your operations and might I add continue to face in Rennell. I can only admire the cool and understanding manner in which you conducted yourself in dealing with these challenges within the bounds of our laws. You have demonstrated good corporate citizenship in this matter. For this, I thank you very much and would encourage you to keep up this

responsible attitude which is worthy of emulation by other mining operators in this country. must also commend your commitment to implement an extensive community service engagement,

fully acknowledging your social responsibility to the indigenous landowning group and provision of employment to Solomon Islanders. This is admirable given the high risks associated with mining operations which requires a careful balance between social responsibility and profit making. You have managed this very well, which is a credit to the effective management and administration of

I believe your company has great future in Solomon Islands in the development of the mineral

sector, judging from the noble aims and objectives of the company which augurs very well with the development objectives of the Solomon Islands Government in the mining industry. On behalf of the government and people of Solomon Islands I commend the good work you are

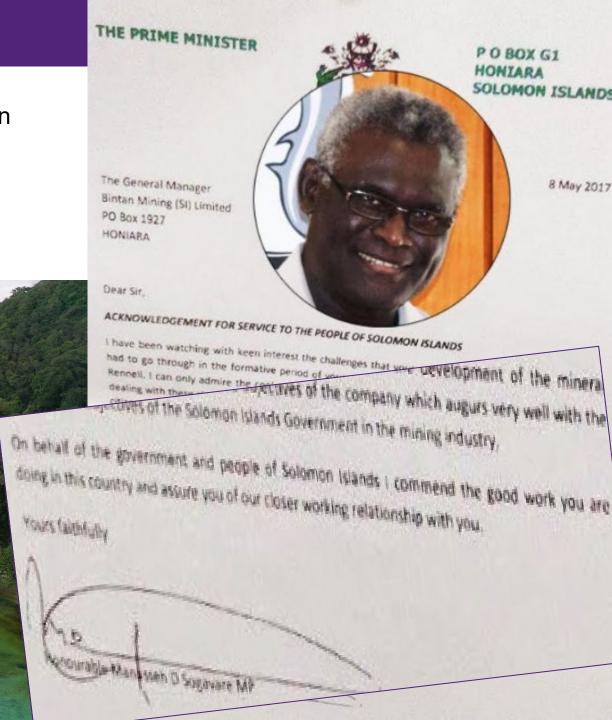
POBOX G1 HONIARA SOLOMON ISLANDS

8 May 2017

UQSIP/MASLU

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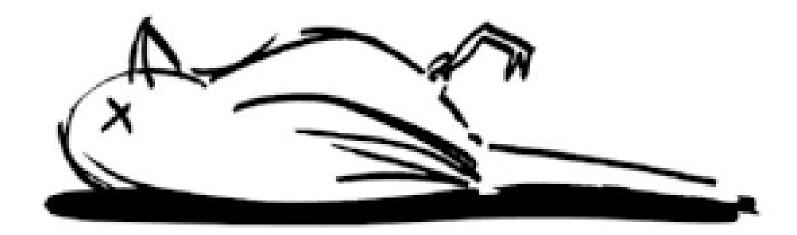
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Are we going to need another canary?

"Bintan Mining Solomon Islands Limited, the Indonesian company that chartered the vessel, continues to load bauxite with other bulk carriers" (The Guardian, 1 March 2019)





References

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- Taylor GR (1973) Preliminary observations on the structural history of Rennell Island, South Solomon Sea. GSA Bulletin 84: 2795-2806.
- <u>https://whc.unesco.org/uploads/nominations/854.pdf</u> (UNESCO WHA East Rennell Nomination1998)
- <u>https://reliefweb.int/sites/reliefweb.int/files/resources/RenBel_150k_topo.pdf</u>



Thank you

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The End

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