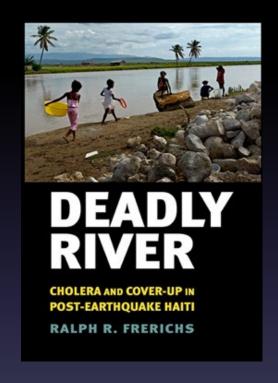
Truth, Lies and the Greater Good

Cholera's Unexpected Arrival in Haiti



Ralph R. Frerichs
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UCLA Fielding School of Public Health
Los Angeles, CA, USA

"The Greater Good"

The Boston Globe's
"Spotlight" team of
investigative
journalist reported
widespread
child sex abuse by
Roman Catholic
priests in the Boston
area.

Jerry Sandusky,
assistant football coach
at Penn State University
under legendary Joe
Paterno, who was
convicted of rape and
child sexual abuse.

HBO series about the Chernobyl disaster in 1986 when a nuclear power plant in Ukraine, Soviet Union, exploded unexpectedly during a safety test, contributing to 4,000 to 93,000 radiation-related deaths.









Earthquake, January 2010



Image 1: when cholera came to Haiti



Image 2: when cholera came to Haiti



Haltians have held anti-U.N. protests, accusing Nepalese peacekeepers of bringing cholera to Halti. In the northern city of Cap-Haltien, hundreds of protesters gathered on Nov. 15, hurling stones at U.N. peacekeepers, setting up burning barricades and torching a police station. The riots have disrupted efforts to combat the growing health epidemic.

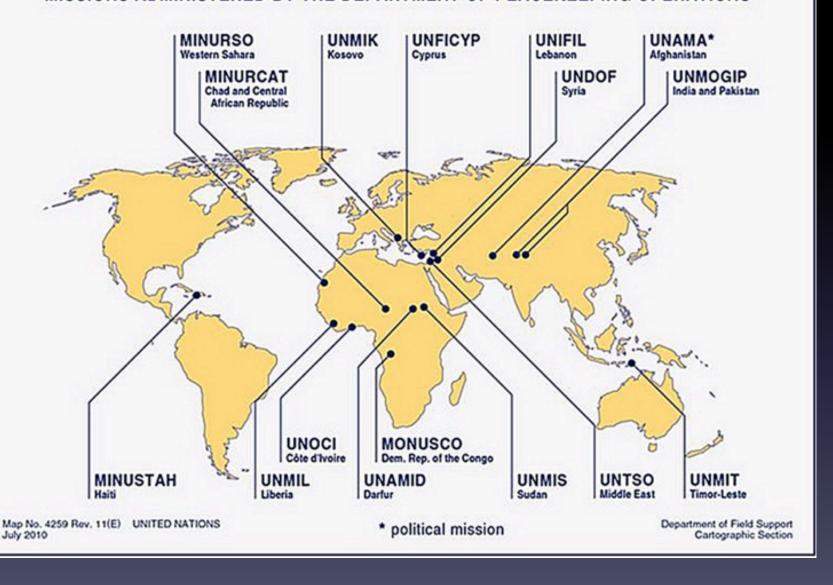
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Image 3: when cholera came to Haiti

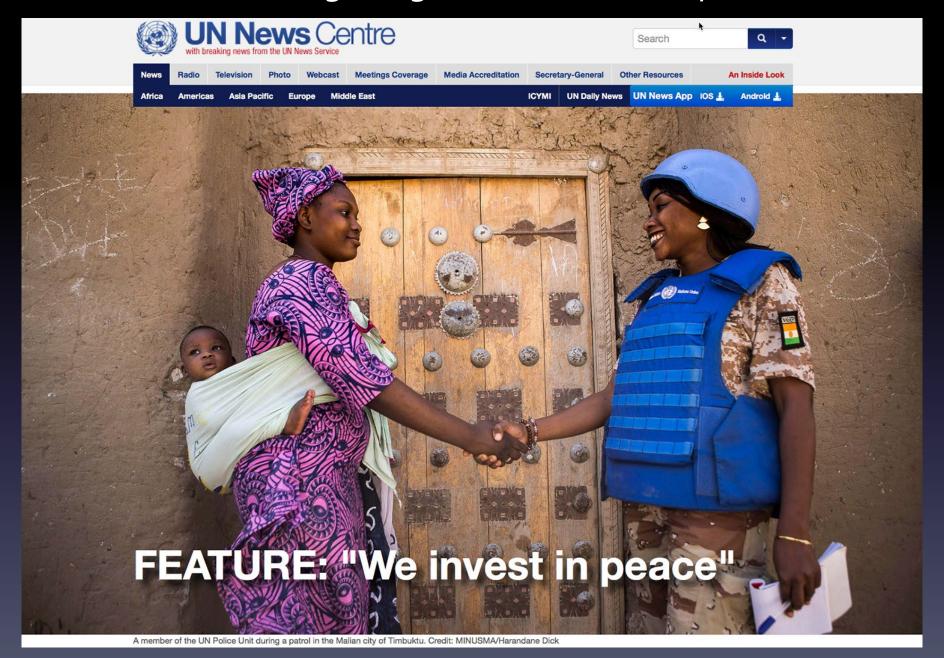


A UN peacekeeper from Brazil shoots tear gas to demonstrators during a protest in Port-au-Prince, Nov. 18.

MISSIONS ADMINISTERED BY THE DEPARTMENT OF PEACEKEEPING OPERATIONS



Continuing image of UN Peacekeepers



US State Department Priorities



United States in UN Peacekeeping: Strengther

Increasing the effectiveness of UN peacekeeping is one of the highest priorities for the United States at the United Nations. Multilateral peacekeeping shares the risks and responsibilities of maintaining international peace and security, and is a cost-effective way to help achieve U.S. strategic and humanitarian interests.

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The United States in UN Peacekeeping: Strengthening UN Peacekeeping and Conflict Prevention Efforts

Fact Sheet

Office of the Spokesman Washington, DC September 23, 2010

Increasing the effectiveness of UN peacekeeping is one of the highest priorities for the United States at the United Nations. Multilateral peacekeeping shares the risks and responsibilities of maintaining international peace and security, and is a cost-effective way to help achieve U.S. strategic and humanitarian interests. In September 2009, President Obama hosted the first-ever meeting with the leaders of the top troop-contributing nations to UN peacekeeping operations. This meeting underscored America's commitment to this vital tool, which allows countries around the world to share the burden for protecting civilians and fragile peace processes in societies emerging from war. Since that meeting, the U.S. Government has been working to enhance its support for UN and regional peacekeeping and to operationalize the commitments that the President outlined.



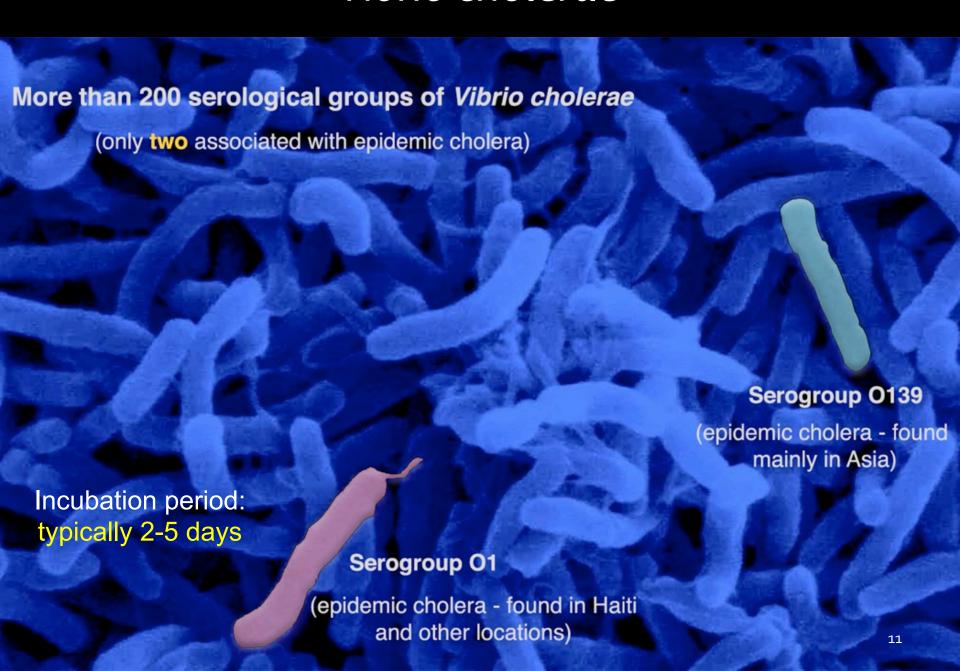
Topic | Speaker | Publication | Location | Date

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Source: Office of the Spokesman, United States Department of State. Fact Sheet, September 23, 2010.

(http://www.state.gov/r/pa/prs/ps/2010/09/147828.htm)

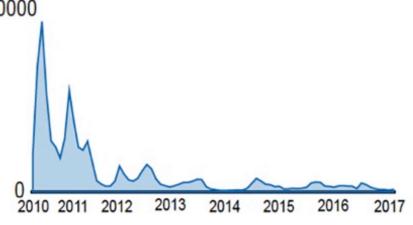
Vibrio cholerae

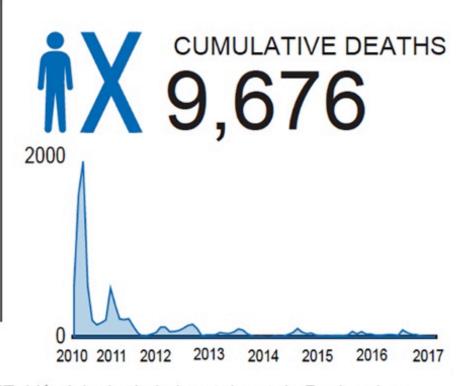


CHOLERA CASES (DELR* available data)

OCT 2010 - JUNE 2017







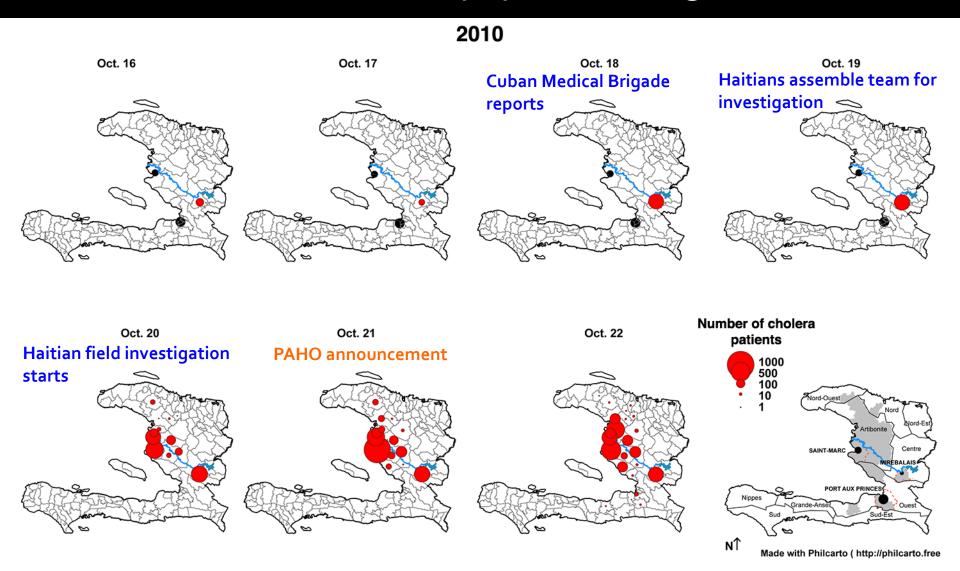
* Direction d'Epidémiologie de Laboratoire et de Recherches

Source: OCHA. Haiti Cholera Figures, as of June 30, 2017 www.unocha.org and www.reliefweb.int, July 24, 2017.

Need for Cholera Outbreak Investigation

- First time in Haiti
- Assess origin
 - Determine culpability, if any
 - Craft future prevention policies
- Assess nature and extent of spread

Cholera arrival and early spread during first week



Source: Frerichs RR et al. "Nepalese origin of cholera epidemic in Haiti." *Clinical Microbiology and Infection* 18(6), E158-163, June 2012 (epub April 17, 2012).

Haitian team assembled to investigate headed by nurse epidemiologist



Report of Haitian field investigation SUPPRESSED

MINISTERE DE LA SANTE PUBLIQUE ET DE LA POPULATION (MSPP)
UNITE DE GESTION DU PROJET MSPP/CDC/PEPFAR (UGP)

Rapport de Mission au Département Sanitaire du Centre, Bas Plateau

Oct. 20

Haitian field investigation



esponsable SCMP, UGP/ MSPP/PEPFAR esponsable SE, LNSP/MSPP

hauffeur UGP

à l'alerte d'une épidémie de Diarrhée aqueuse aigue dans le Bas-Plateau hérentes à cette crise ogiste de la zone dans ses actions de lutte.

Suivi de l'Epidémie de Choléra dans le Bas-Plateau

Résumé: Les soixante-et-un cas de diarrhée notifiés par la Coopération Médicale Cubaine (CMC) pour la 41^e semaine épidémiologique, à l'Hôpital Communautaire de Mirebalais (HCM) n'étaient autres qu'une épidémie de Choléra qui a éclaté dans le Bas Plateau (BP) pour s'étendre ensuite dans le Bas Artibonite. Jusqu'au 23 Octobre 2010 (41^e et 42^e sem) dans le DSC seulement le BP a été touché. Un millier de personnes affectées ont eu recours aux soins, une centaine (107) a été hospitalisée et onze décès. La Prison Civile n'a pas été épargnée 34 cas parmi eux quatre décès. Au début l'Hôpital La Colline de Lascahobas, recevait surtout les prisonniers en provenance de Mirebalais. Le 22 Octobre, il a admis deux cas en provenance de Lascahobas, ces cas vont être investigués pour savoir s'ils ont été infectés à Lascahobas ou ailleurs.

Oct. 21

PAHO announcement



PAHO announcement of cholera epidemic













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...in St. Marc, Grande Saline and Mirebalais.

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Sonia Mey Schmidt, Tel 202 974 3036

PAHO Responds to Cholera Outbreak in Haiti

Washington, Oct. 21, 2010 – The Pan American Health Organization said today that it has received laboratory confirmation of cases of cholera in Haiti, in Artibonite province, and is responding to help the Ministry of Health assess the situation and respond appropriately to save lives. So far, PAHO has been informed that more than 1,500 cases of severe diarrhea and at least 138 deaths have been reported in St. Marc, Grande Saline, and Mirebalais.

PAHO has mobilized epidemiologists and other experts from its office in Port-au-Prince and from other countries to help local and national authorities assess and deal with the event, which marks the first time cholera has appeared on the island of Hispaniola, shared by Haiti and the Dominican Republic.

The organization is collaborating with partners including the US Centers for Disease Control, US Agency for International Development, OCHA, Medecins Sans Frontieres, and other non-government organizations to combat the outbreak.

Cholera is an disease caused by ingestion of food or water contaminated with the bacterium Vibrio cholerae. An acute intestinal infection, it causes severe watery diarrhea and vomiting, and can quickly lead to severe dehydration and death. Most cases can be treated with oral rehydration salts, though more severe cases need hospitalization with intravenous fluids and appropriate antibiotics. The goal of treatment is to keep up with fluid loss caused by diarrhea and vomiting.

WHO News

- WHO/UNICEF highlight need to further reduce gaps in access to improved drinking water and sanitation
- Air quality deteriorating in many of the world's cities
- United Nations agencies report steady progress in saving mothers' lives



English | Spanish | Portuguese |
French

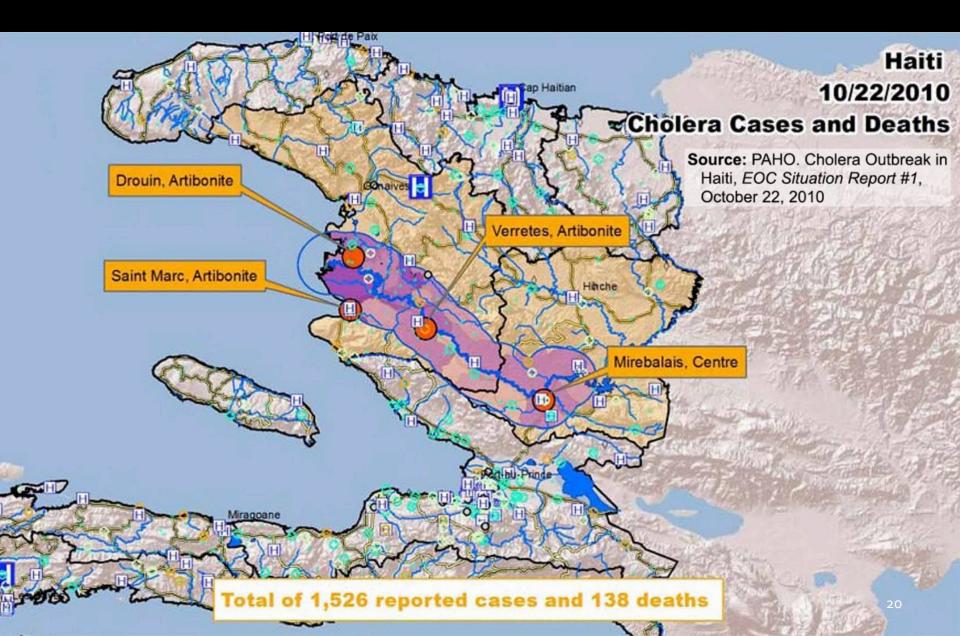
PAHO Campaigns



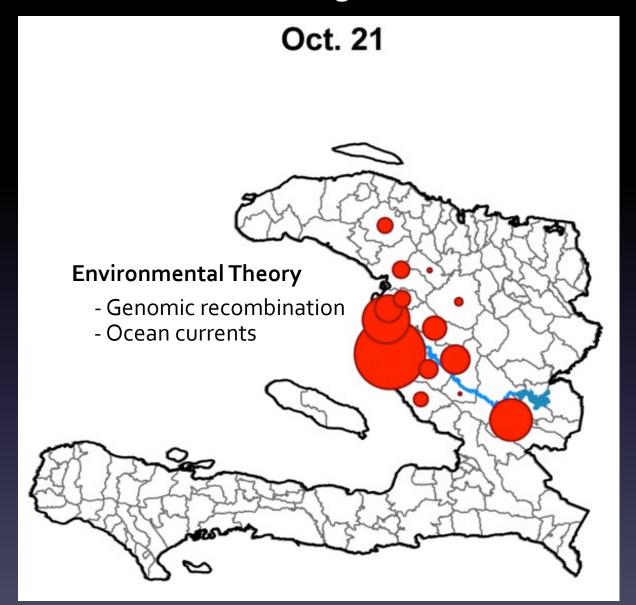
Initial news stories focused on coastal Saint Marc



First PAHO map is issued following day



Cholera-origin theories



Human Activity Theory

- UN Nepalese peacekeepers



Early Comments on Seeking Origin

Indifference

"From our point of view," said the UN spokesperson in Haiti, "[the origin] really doesn't matter."

Too busy

 PAHO was focusing on "on treating people, getting a handle on this and saving lives."

Too costly

 Main CDC epidemiologist assigned to Haiti said it was unlikely that scientists would pinpoint where the outbreak began, and that he did not think mounting an all-out effort to find the answer "is a good use of resources."

Rumors of cholera's origin were swirling around Haiti:

the outbreak started at a UN peacekeeping base near Mirebalais by the village of Mèyé



International journalists visit UN peacekeeping camp near Mirebalais six days after PAHO Announcement

October 27, 2010

Sebastian Walker, Al Jazeera



September 23, 2010



Jonathan Katz, Associated Press



25

Roberson Alphonse of Haiti's newspaper Le Nouvelliste



US Dept. of HHS and CDC

Administrative Hierarchy, 2009-2014



HHS Delegation visits Haiti, April 2012 (including Sebelius and Frieden - center)



U.S. Department of Health & Human Services

Secretary Kathleen Sebelius 2009 - 2014



Operating Divisions

Centers for Disease Control and Prevention (CDC)*

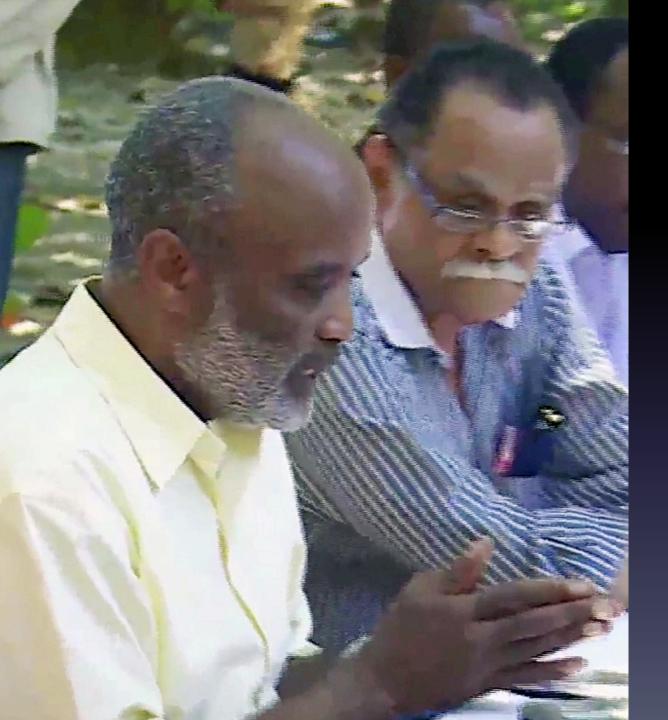
* Component of the Public Health Service

Director Thomas Frieden, MD, MPH 2009 - 2016



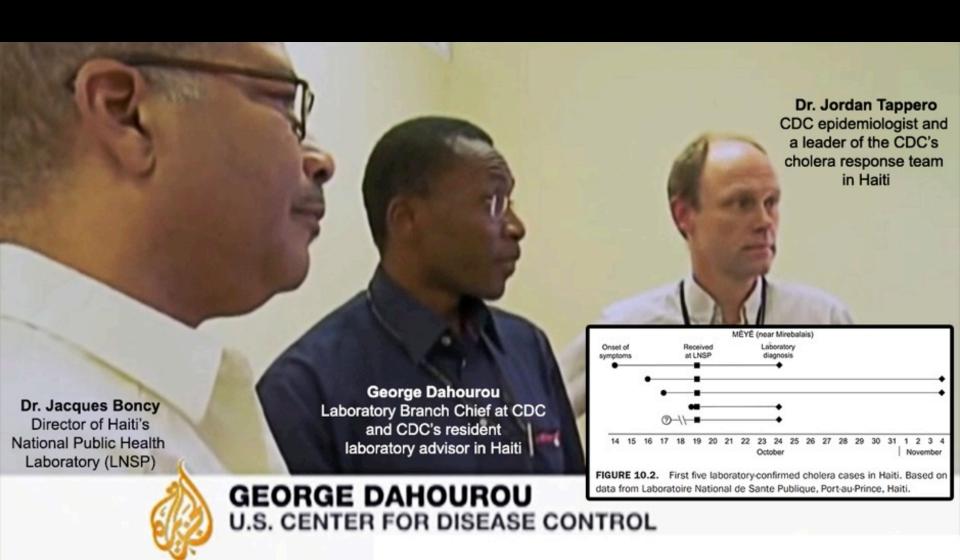
Haitian government commissions French epidemiologist to investigate Renaud Piarroux, MD, PhD arrives Nov. 7, 2010



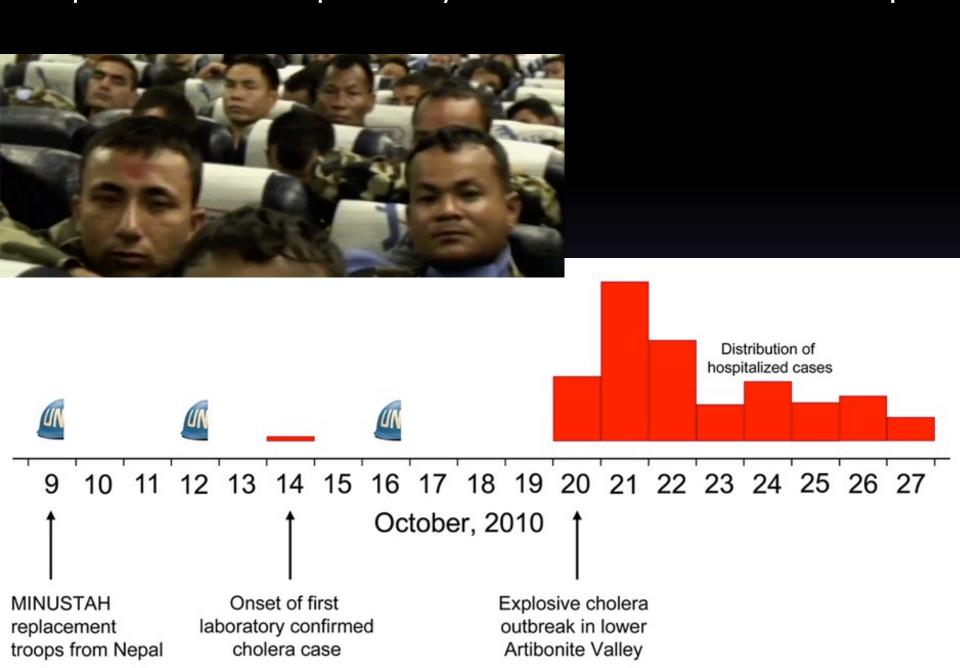


Unique Allies

Haitian President René Préval and Minister of Health Alex Larsen Nov. 8th, 2010: Unbeknownst to Piarroux, CDC officials already knew that the first laboratory-confirmed cholera samples had come from Mèyé, but there was no acknowledgement nor investigation.



Replacement troops (every six months) arrive from Nepal



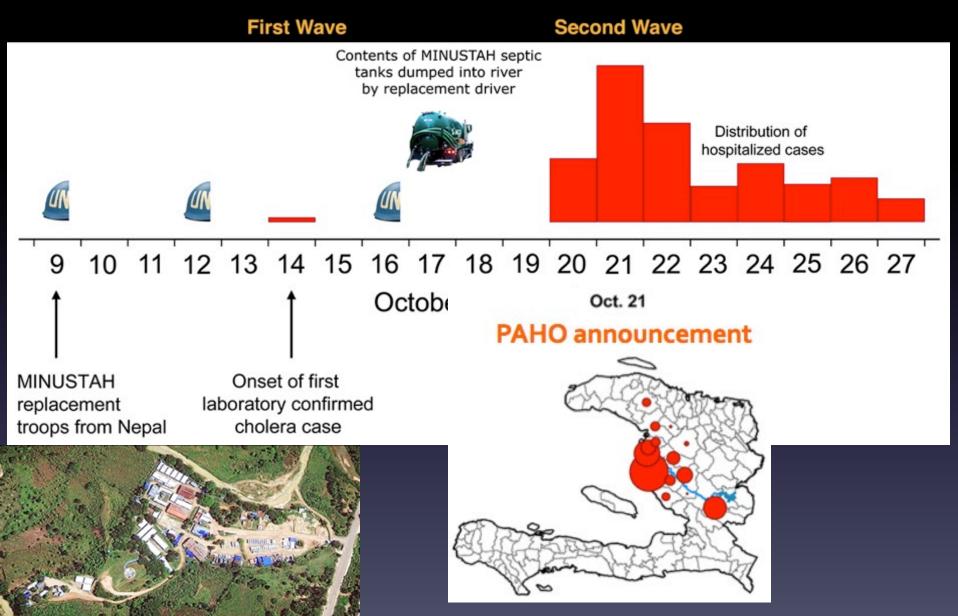
Camp of Nepalese UN Peacekeepers



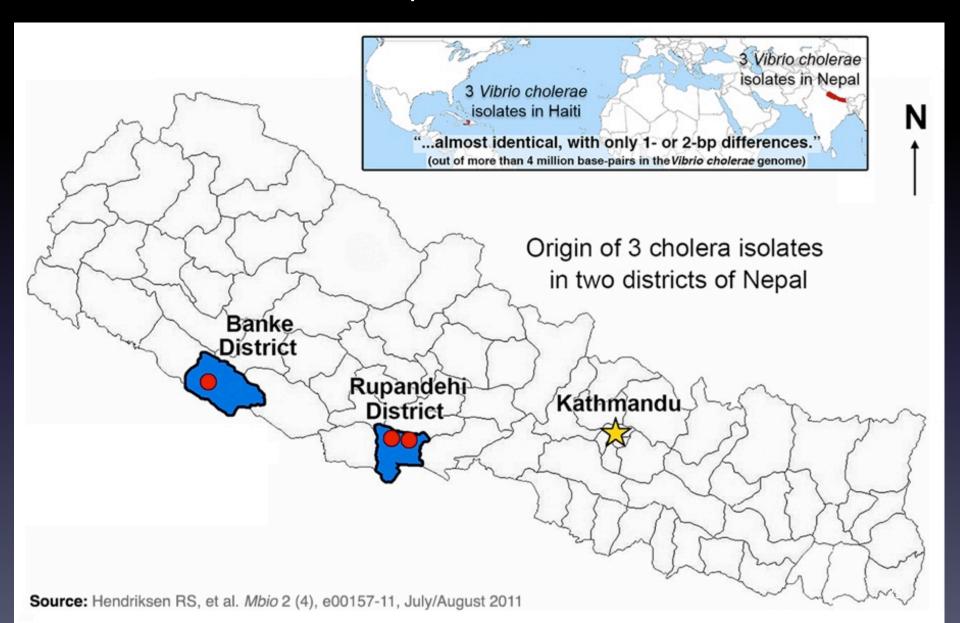
Cholera-ridden Sewage



Start of Epidemic



Comparison of *Vibrio cholerαe* isolates Nepal and Haiti



Human Rights organizations blame United Nations

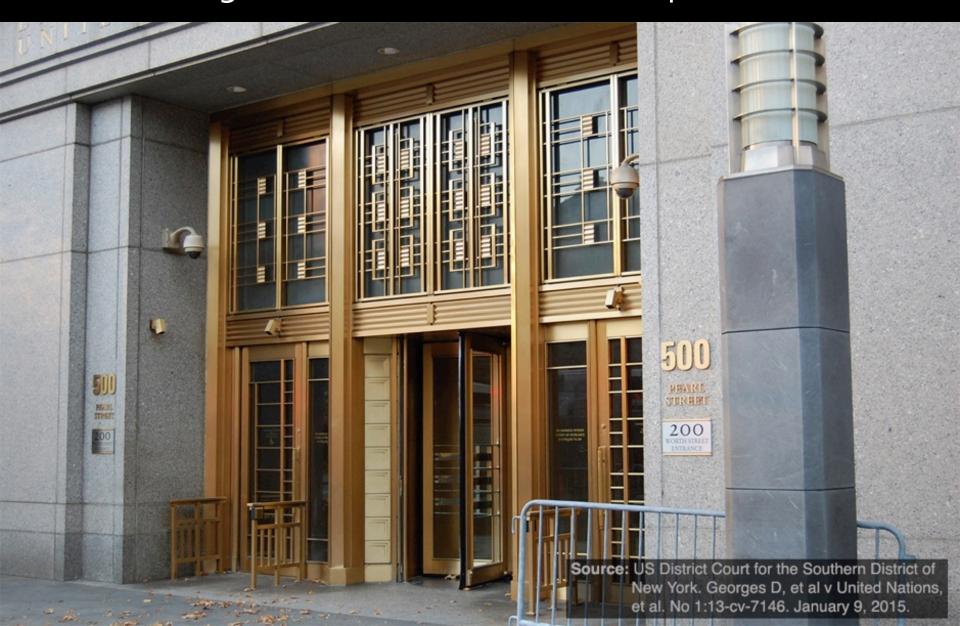


Moral Responsibility

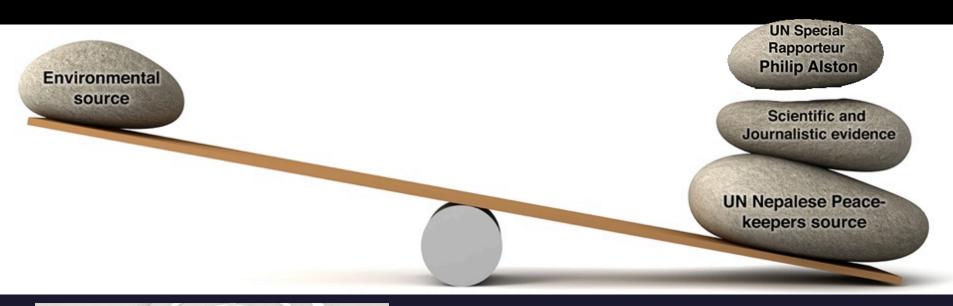
No mention of legal responsibility



Ruling in Jan. 2015: United Nations cannot be sued for its alleged role in the Haiti cholera epidemic



Tipping Point in Source Argument

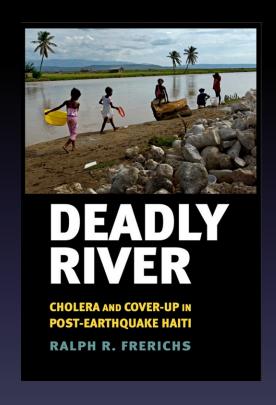




NYU Law professor Philip Alston, *UN*Special Rapporteur on extreme
poverty and human rights, in early
August 2016 submitted the draft of a
critical report on cholera in Haiti to
UN Secretary-General Ban Ki-moon.

In this report, Alston tells the UN of the central role of *Deadly River*

"...the book provides a pain-staking and even-handed assessment of the scientific debates that have taken place.... it systematically vindicates the conclusions reached by one of the first international experts on cholera to investigate the outbreak in Haiti, Dr. Renaud Piarroux."



Alston continued in his UN report

"The past policy of the United Nations relied on a claim of scientific uncertainty. That is no longer sustainable given what is now known. The United Nations was clearly responsible and it must now act accordingly."

Three Op-Eds on cholera in Haiti

The Boston Globe

1 of 3

OPINION I RALPH R. FRERICHS

What the UN must do to wipe out cholera in Haiti

By Ralph R. Frerichs AUGUST 22, 2016



2 of 3

OP-ED

AUGUST 24, 2016 7:17 PM

Cholera in Haiti shows U.N. must change its ways

BY RALPH R. FRERICHS AND RENAUD PIARROUX

The New York Times

3 of 3

The Opinion Pages | OP-ED CONTRIBUTOR

The U.N.'s Responsibility in Haiti's Cholera Crisis

By RENAUD PIARROUX SEPT. 7, 2016

Philip Alston submits his final version of the report and speaks to UN on October 25, 2016 about cholera





UN Haiti Cholera Response Multi-Partner Trust Fund

\$200 million

\$200 million

Treatment and elimination efforts

Compensation for cholera victims (via Human Rights groups)



Actual deposits so far by UN member states About \$10 million (2.5%)

Changing of the Guard on January 1, 2017

Secretary General Ban Ki-moon (OUT) and Secretary General António Guterres (IN)





Security Council approves 'historic' political Haiti mission, ending UN peacekeeping role in the country

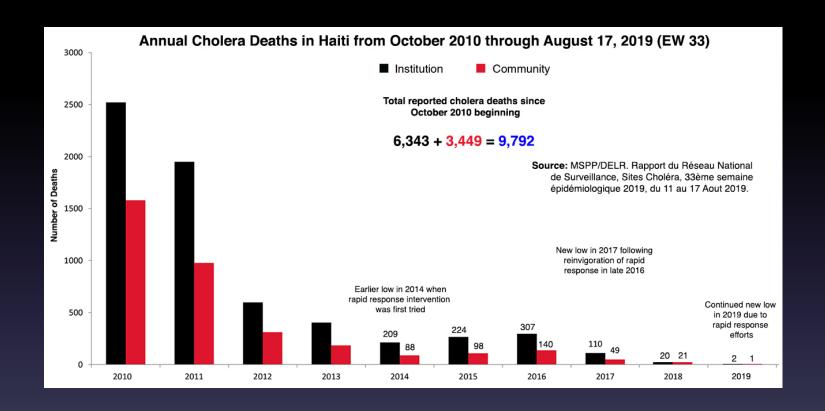
25 June 2019 | Peace and Security



Leonora Baumann / UN MINUJUSTH | Miragoane, 30 October 2018: female members of the Bangladeshi Formed Police Units greet Helen La Lime, the UN Special Representative in Haiti and Head of MINUJUSTH

ENDING DATE: OCTOBER 16, 2019

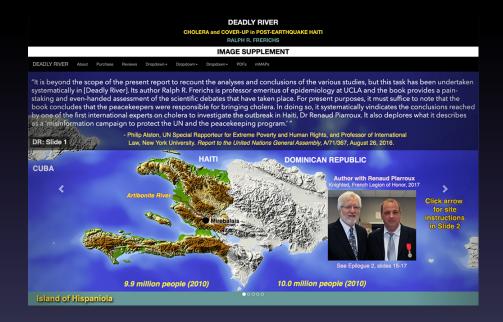
Current State (mid-August, 2019)



No cholera deaths nor positive laboratory tests since the February 2019

Updates

http://www.deadlyriver.com



Book (French), March, 2019



Issues not yet settled

 Will the United Nations accept the cholera origin findings in Haiti and assume legal responsibility?

 Will the UN fully fund the proposed cholera elimination and victim compensation programs in Haiti?

 Will the UN invoke and actively enforce policies to prevent similar disease occurrences in countries being served by UN peacekeepers?