



Wayne E. Sirmon

GEO 301

World Regional Geography

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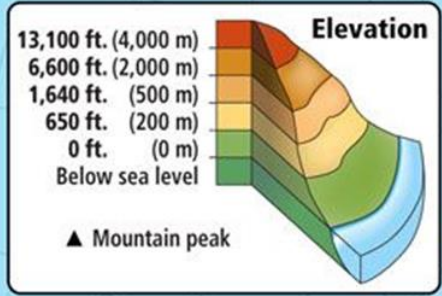
What's Next??

Nov. 21	Paper Two due (By Saturday noon is OK)
Nov. 26 & 28	Thanksgiving Holidays
Dec. 1	Online Quiz Chapter 11
Dec. 3	Class Presentations "A"
Dec. 5	Class Presentations "B"
Dec. 10	Final Exam

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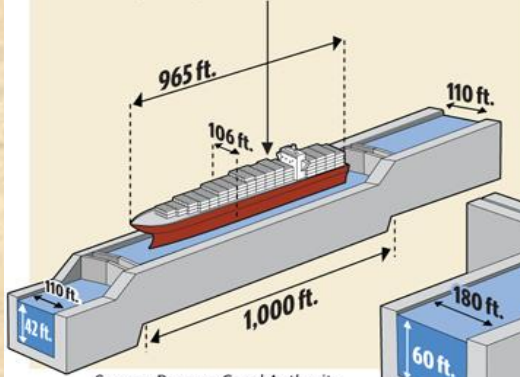
		Oceania and Antarctica	Sub-Saharan Africa	Latin America	USA & Canada	
Political Science	Political Geography	10	20	30	Trey Simplins	Presentations Group "A" 3-Dec
Anthropology	Cultural Geography	11	21	Haleigh Hartmann	41	
History	Historical Geography	12	22	Gabriella Gordon	42	
Economics	Economic Geography	Breyton Cornelius	23	33	43	
Sociology	Social Geography	14	24	34	44	
Astronomy	Mathematical Geography	Abby Brooks	25	35	45	
Biology	Biogeography	16	Elizabeth Ranew	36	46	Presentations Group "B" 5-Dec
Pedology	Soils Geography	17	27	37	47	
Geology	Geomorphology	18	28	38	48	
Meteorology	Climatology	19	29	39	Mackenzie Danzey	





Existing locks

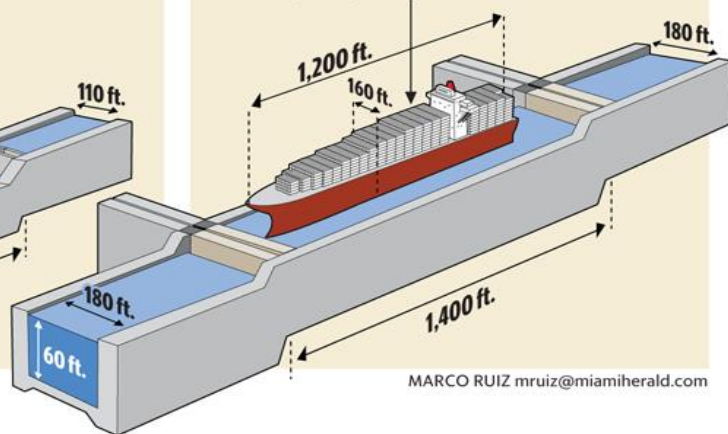
Vessel capacity: **5,000 standard containers**



Source: Panama Canal Authority

New post-Panamax locks

Vessel capacity: **13,000 standard containers**



MARCO RUIZ mruiz@miamiherald.com



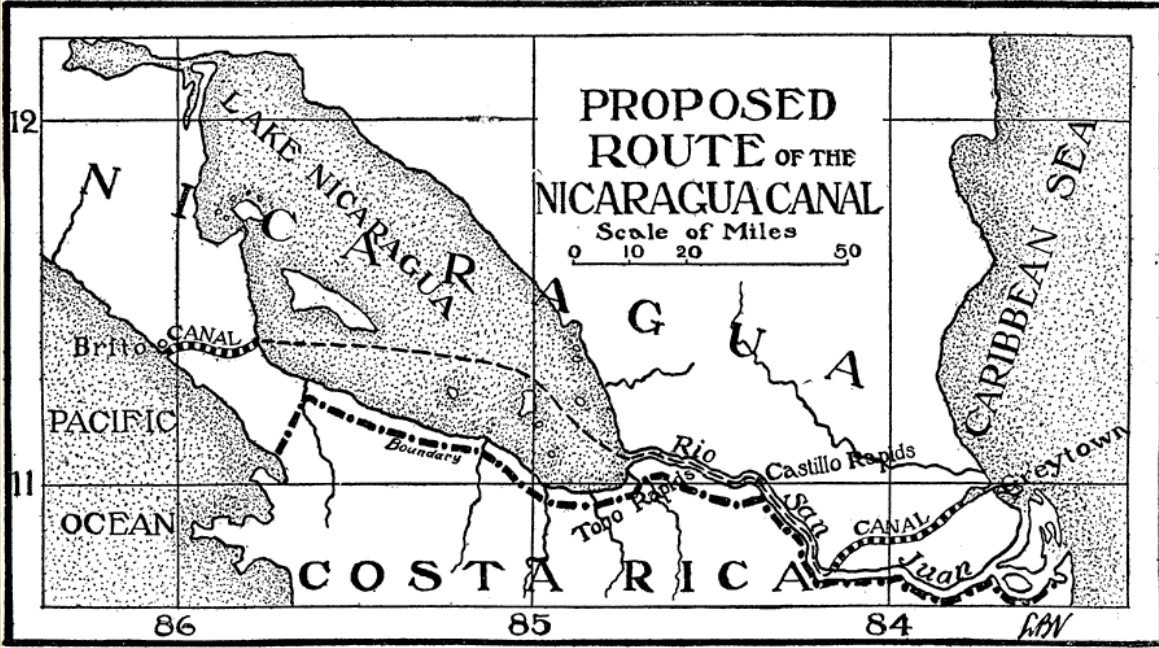
Canal that has been a dream
 1551, 1781, 1826
 1849, 1888, 1895

1902

Panama Canal supporters hire William Cromwell to lobby US Congress. Fake news of volcano erupting played on Martinique volcano that killed 30,000 that spring.



Flatter (faster) save a full day for ships over using Panama Canal. Could handle bigger ships (More cargo). Would double GDP of Nicaragua



Nicaragua approves canal project

Lawmakers approved a controversial deal Thursday allowing a Hong Kong company to build a waterway to rival Panama Canal

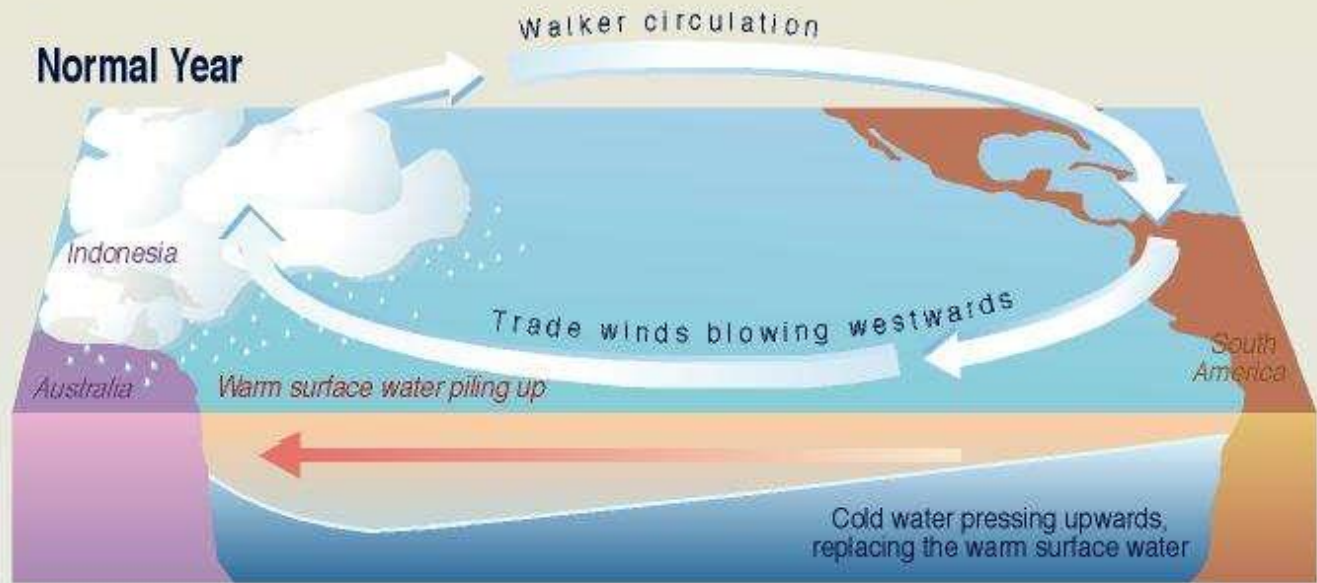
- ▶ Cost: \$40 billion
- ▶ Construction: starts May 2014

	Depth	Length	Draft
Nicaragua Canal	22 m	286 km	20 m
Panama Canal	21 m	82 km	12.3 m
Suez Canal	13.8 m	195 km	19 m

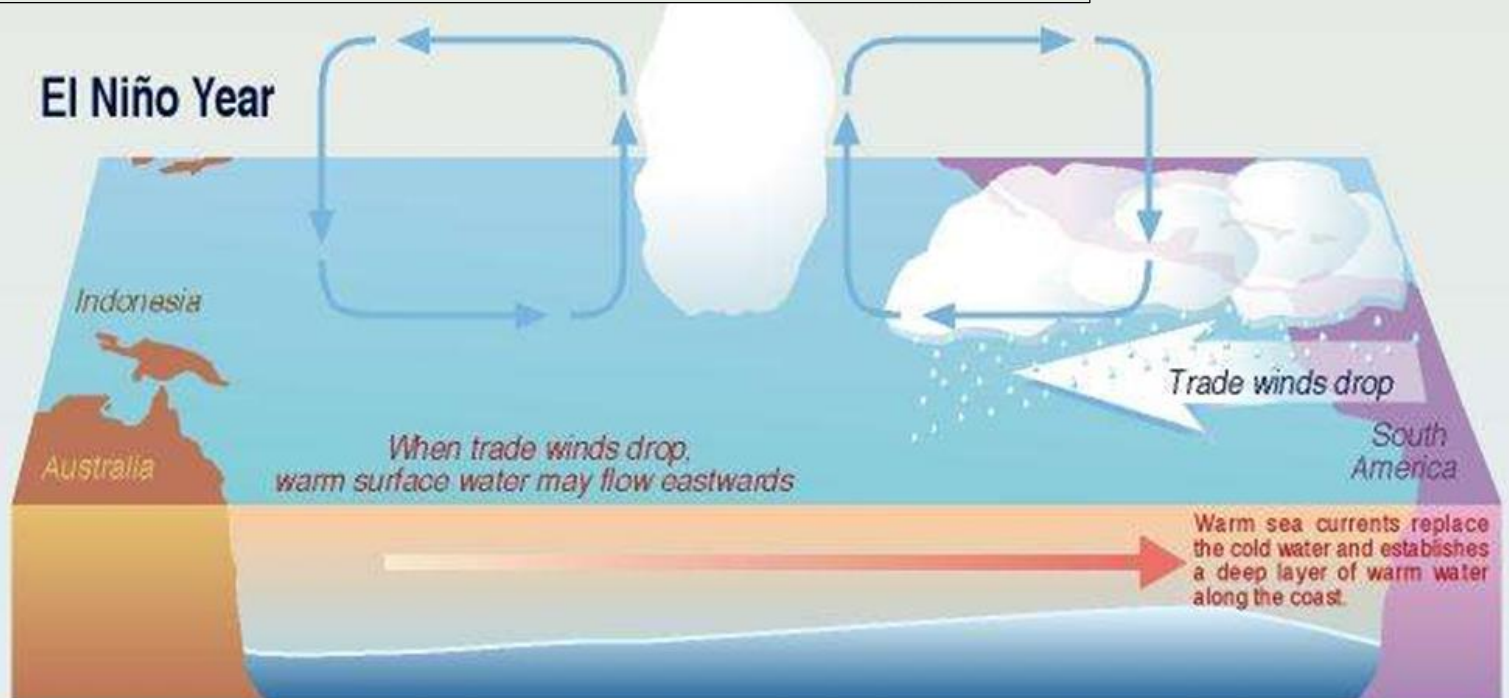


El Niño Phenomenon (ENSO)

Normal Year

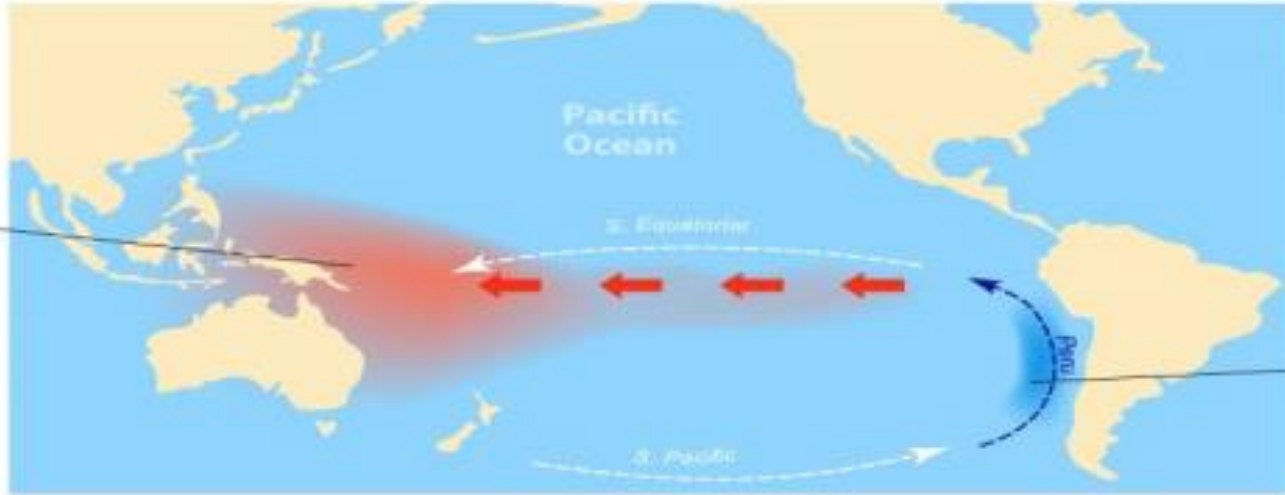


El Niño Year



THE EL NIÑO PHENOMENON

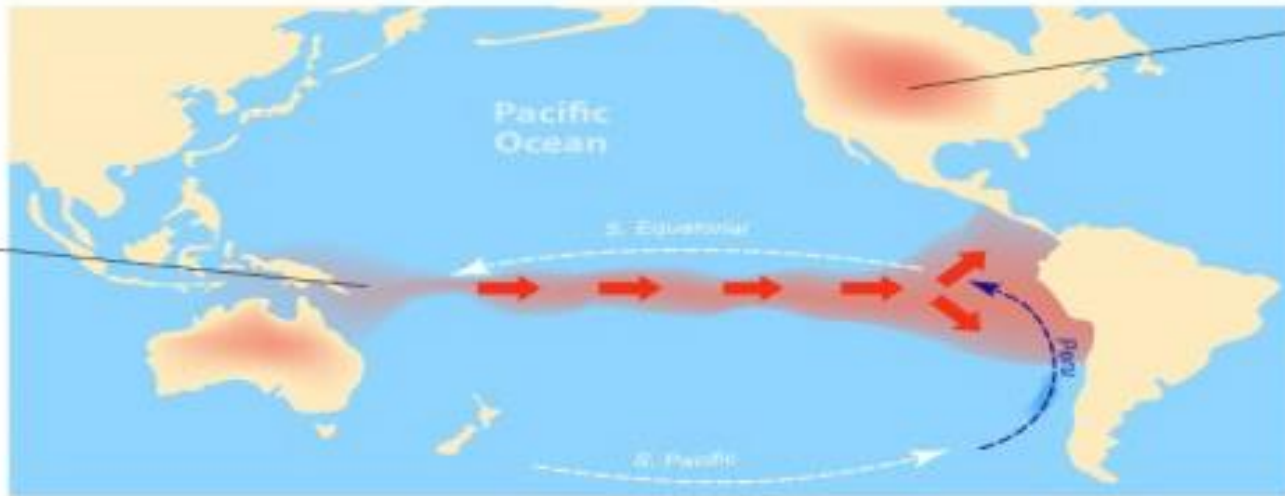
NORMAL YEAR



Equatorial winds gather warm water pool toward the west.

Cold water along South American coast.

EL NIÑO YEAR



Easterly winds weaken. Warm water to move eastward.

Warmer winter

El Niño de Navidad

EL NIÑO EXPLAINED

Typical wintertime patterns during El Niño

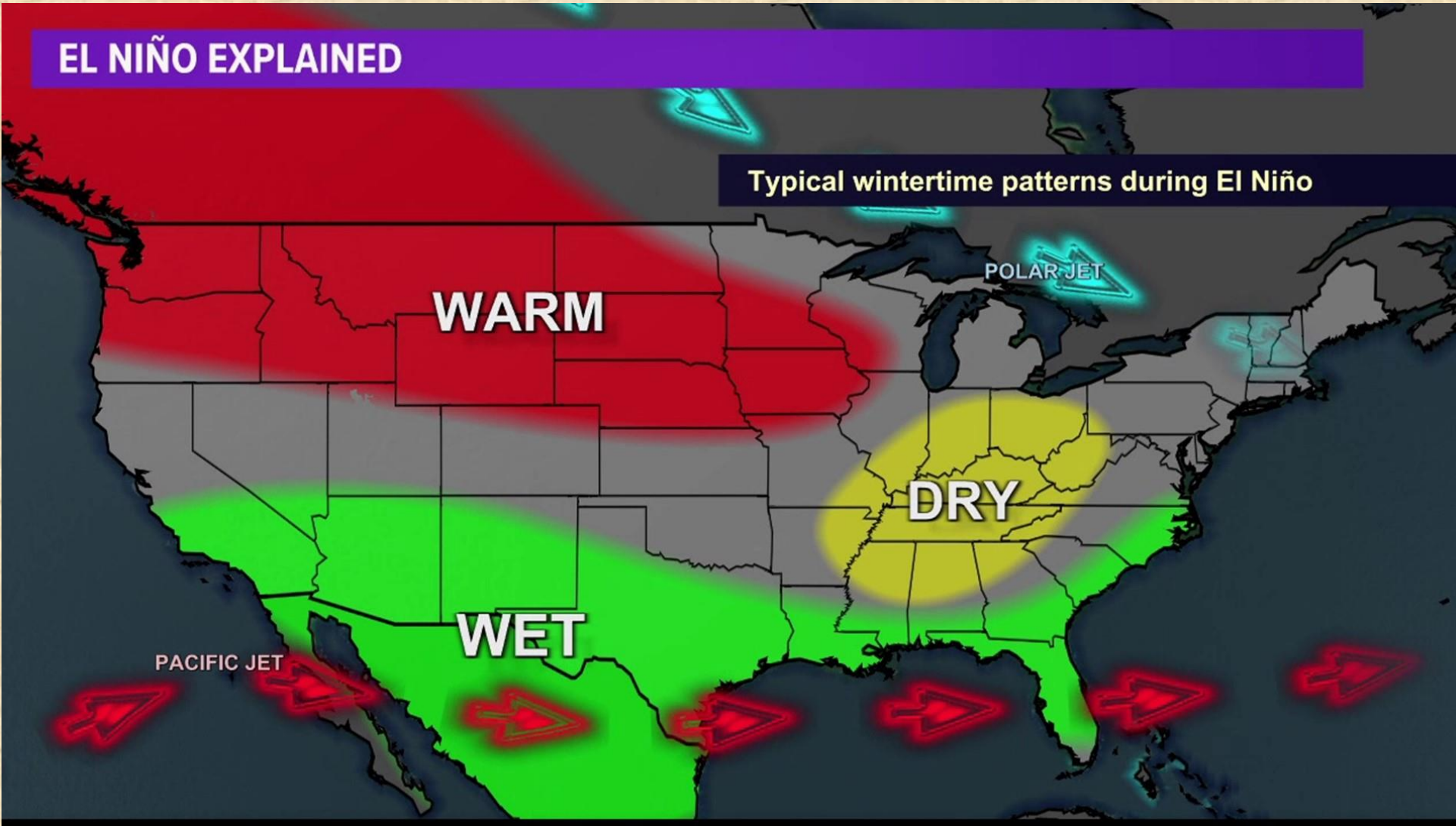
WARM

POLAR JET

DRY

WET

PACIFIC JET



DRUGS

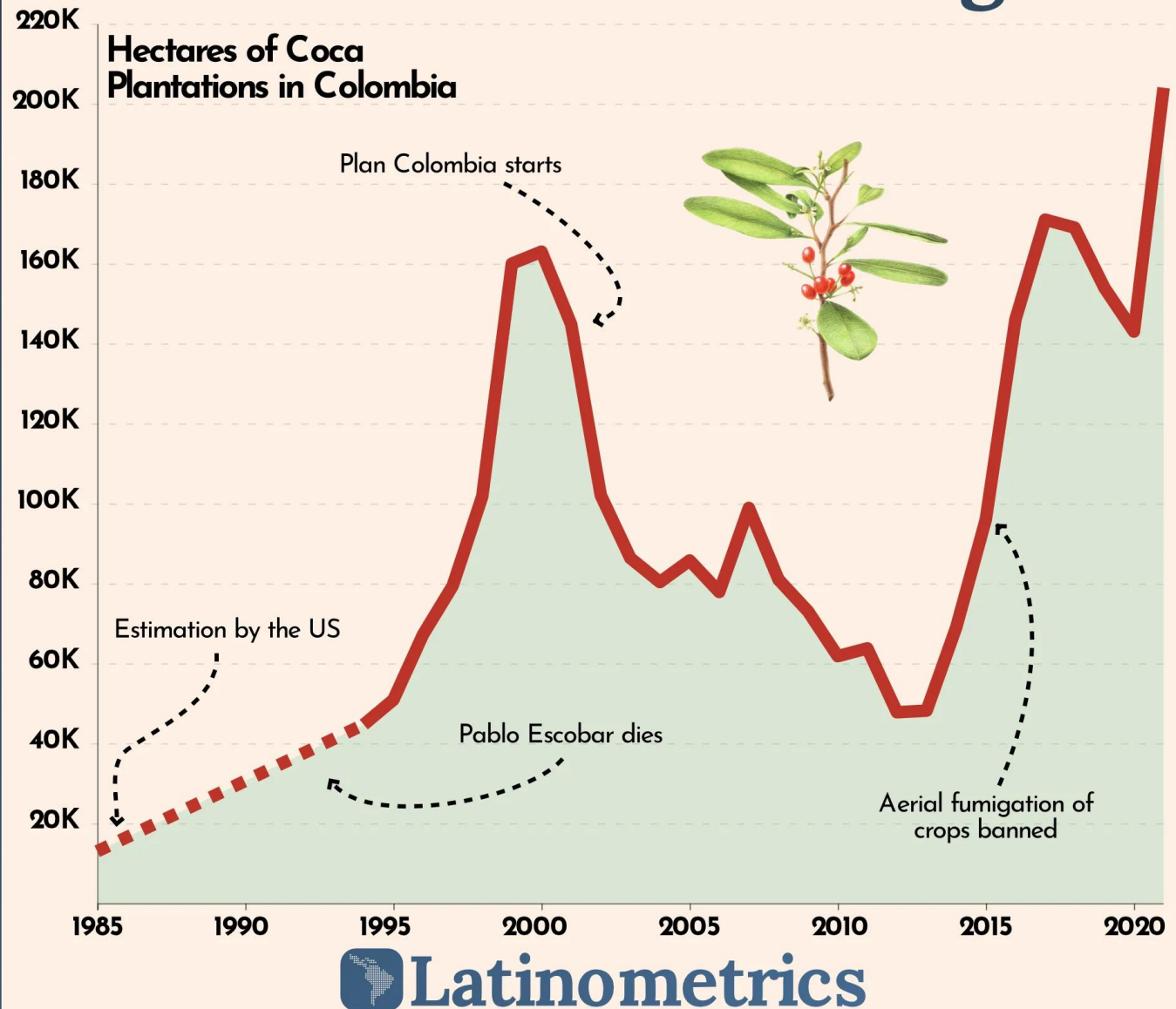
Make
Ship
Sell
Kill



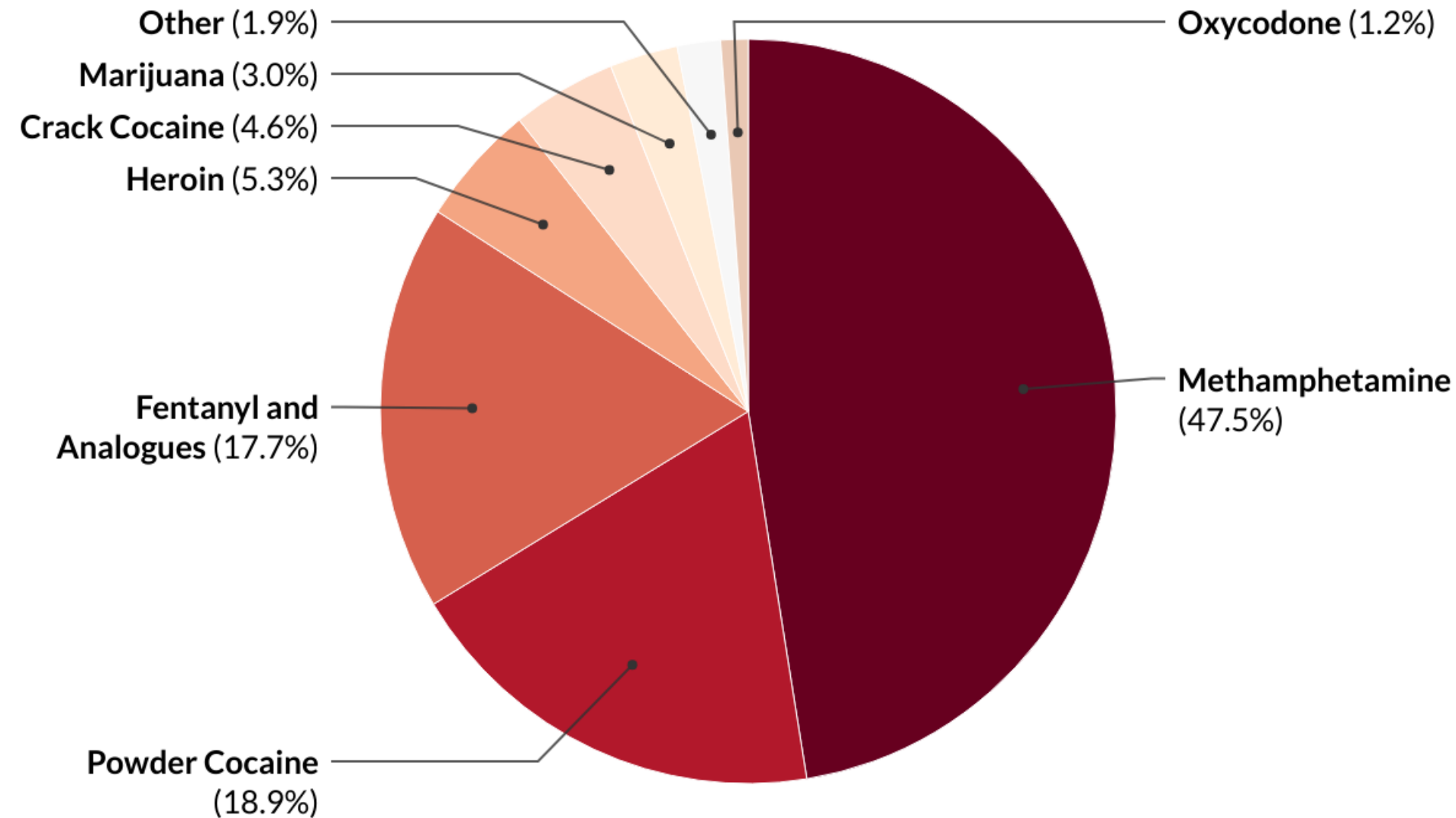
1 Hectacre
=
2.5 Acres

Colombia
produces 70%
of the world's
supply of
cocaine.

Coca Plantations in Colombia Reach an All-Time High



Distribution of Drug Types FY 2023



This represents the primary drug type involved in the 18,939 drug trafficking cases sentenced in fiscal year 2023. Source: United States Sentencing Commission, FY 2019 through FY 2023 Datafiles, USSCFY19-USSCFY23.

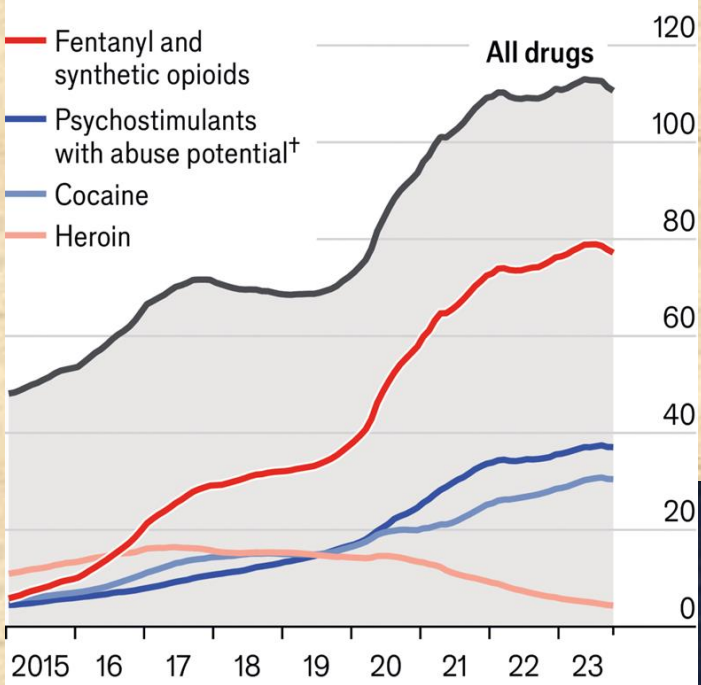
Comparison: Drug Type and Drug Seizures at the Southern Border by Border Patrol and OFO, FYs 2022 and 2023

Methamphetamine	2022	160,000 lbs.
	2023	121,000 lbs.
Marijuana	2022	85,700 lbs.
	2023	61,200 lbs.
Cocaine	2022	25,200 lbs.
	2023	27,600 lbs.
Fentanyl	2022	14,100 lbs.
	2023	26,700 lbs.
Heroin	2022	1,500 lbs.
	2023	1,200 lbs.
Other Drugs	2022	1,500 lbs.
	2023	

US drug-overdose deaths*

1

In the past 12 months, '000



*Deaths involving multiple drugs included in each category
†Mostly methamphetamine
Source: Centres for Disease Control and Prevention

All look the same.
All are lethal doses.



Carfentanil
.02-.03mg

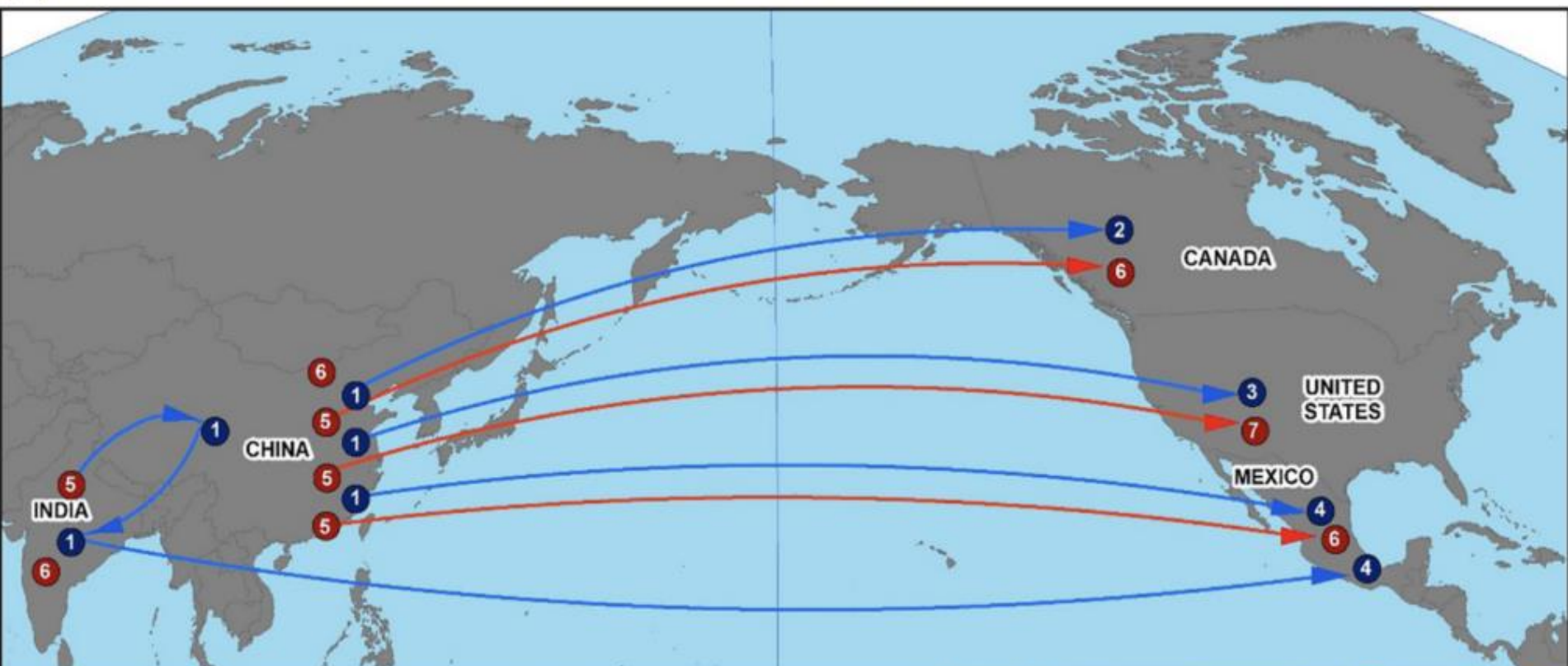


Fentanyl
2-3mg



Heroin
30mg

(U) FIGURE 1. FENTANYL FLOW TO THE UNITED STATES 2019



- 1 Fentanyl in powder form as well as unregistered pill presses, stamps, and dies are shipped via mail services
- 2 The powder fentanyl is processed and mixed with heroin, sold as heroin, or pressed into pills and sold in the Canadian drug market
- 2a Some fentanyl products are smuggled from Canada into the United States for sale, on a smaller scale
- 3 The powder fentanyl is processed and mixed with heroin, sold as heroin, or pressed into pills and sold in the United States drug market
- 4 The powder fentanyl is cut and diluted for further smuggling, or pressed into counterfeit prescription pills
- 5 Precursors for manufacturing fentanyl are shipped via mail services
- 6 Precursors are used to clandestinely manufacture fentanyl
- 7 Precursors are likely smuggled across the Southwest border into Mexico to manufacture fentanyl

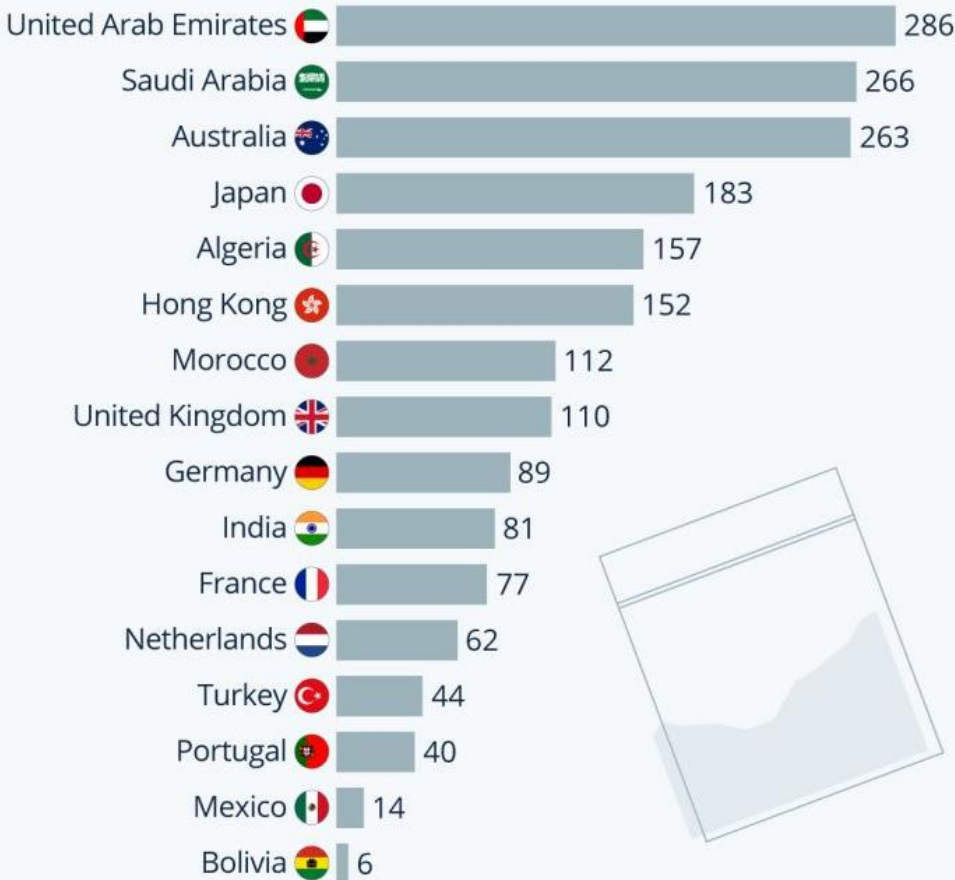


What is a kilo of cocaine worth?

- \$1,500 Production area
- \$6,000 Colombia port
- \$16,000 US/Mexico border
- \$30,000 US "Wholesale"
- \$120,000 US Street

The Street Price of a Gram of Cocaine

Average cocaine retail street prices in selected countries in 2021* (in U.S. dollars per gram)



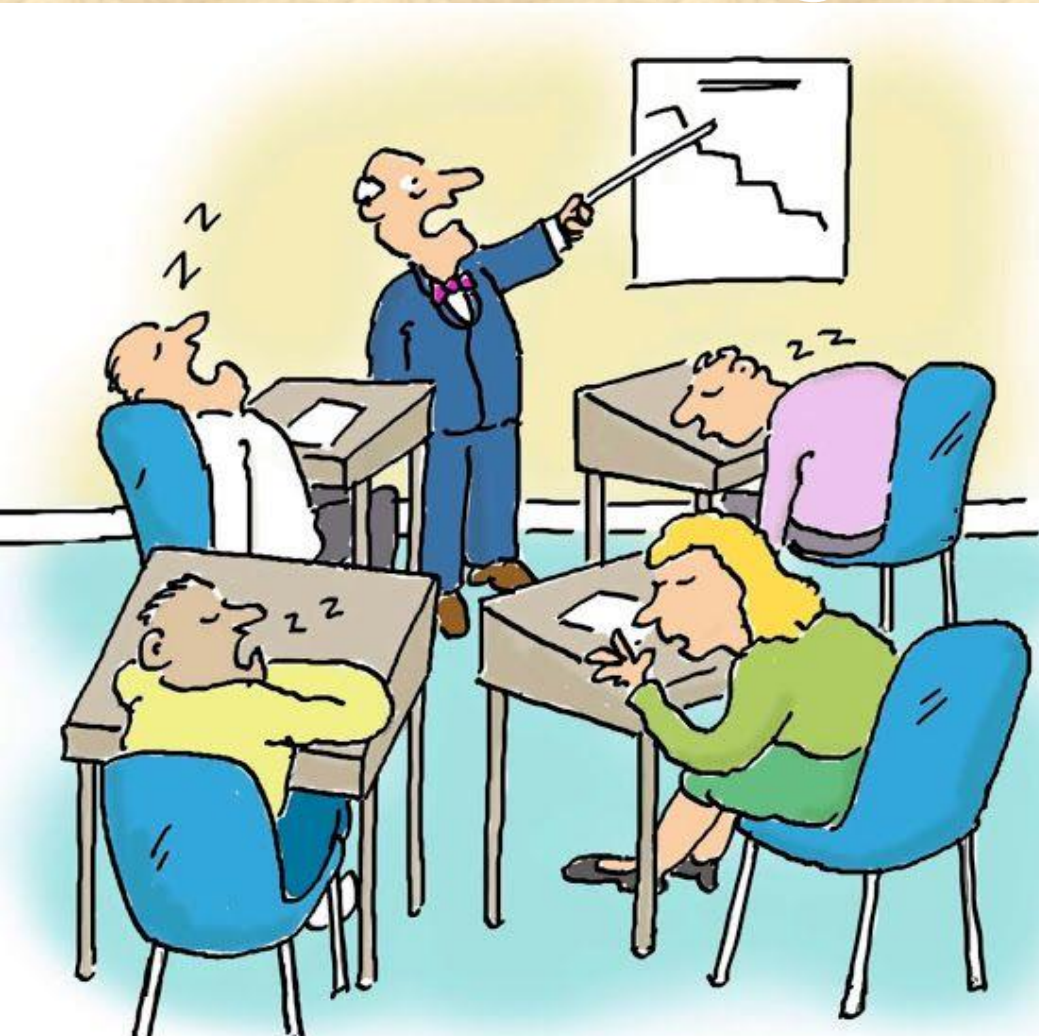
USA "GDP"
Illegal
Drugs
\$111 billion

-2017

Out of 50 countries/territories where data was available
* Cocaine hydrochloride or cocaine-type drugs

Geography 301

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NEXT...

**Student
Presentations
and Praxis**

NEEDED SOME HELP WITH
HIS PRESENTATION TECHNIQUE!