

## Rockfalls (22)

### I Main topics

A Two videos of rockfalls

B Overview of rockfall on Oahu

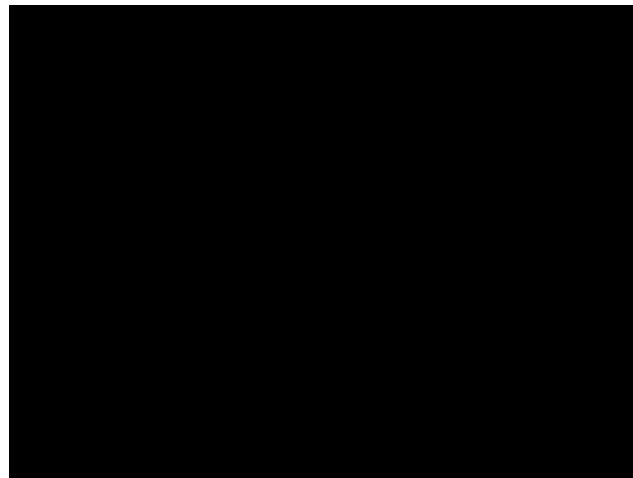
C Central question

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## Rockfall at Lake Powell, Utah



<https://www.youtube.com/watch?v=r1GQaNsc3Os>

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## Rockfall in Grand Couloir, Mont Blanc



<https://www.youtube.com/watch?v=NW1vFQTDE0c>

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## Estimated Costs of Geologic Hazards in Hawaii since 1989

Process	Key Events	Estimated Cost
Floods	1989, 2004	>\$150 M
Earthquakes	2006	\$200 M
Landslides	1989, 2007	>\$50-\$70
Rockfall	1999, 2000, 2002, 2006, 2007	>\$50 M
Debris Flows	1989, 1997	\$10 M
TOTAL		>\$500 M

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# Rockfall sites on Oahu

<http://starbulletin.com/2003/05/16/news/index1.html>

1. Kalaniana'ole Highway at Makapuu
2. Kamehameha Highway near Waimea Bay
3. Kamehameha Highway near Kahuku
4. Pali Highway, Kailua bound, side of roadway past Castle Junction
5. Pali Highway, Kaneohe side of roadway at Castle Junction
6. Kamehameha Highway near Kipapa Gulch Bridge
7. Kamehameha Highway near Wahiawa
8. Pali Highway just before Kailua Town
9. Farrington Highway before Yokohama Bay
10. Kamehameha Highway near Wahiawa



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## Central Question

How can a scientist contribute to a better situation and maintain their professional integrity in an arena that is (a) not purely scientific and that has (b) legal and financial jeopardy?

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## Central Question Revisited

- How can a scientist contribute to a better situation and maintain their professional integrity in an arena that is (a) not purely scientific and that has (b) legal and financial jeopardy?
- Do your best scientific work, and be prepared
- Be honest
- Be humble
- Listen carefully to others
- Treat others with respect
- Minimize jargon
- Ask questions
- Try to understand the larger picture
- Be patient