

Week 13 Reading Assignments and Discussion Questions

Reading Assignment:

<http://ww2010.atmos.uiuc.edu/%28Gh%29/guides/mtr/opt/home.rxml>

- Read through all the sections including Mechanisms, Air Dust Haze, Ice Crystals and Water Droplets

Thrum, T. G., ed. (1907) *Hawaiian Folk Tales: A Collection of Native Legends*, Project Guttenberg, eBook: 159 pp.

- Read the excerpted pages

Kauraka, K. (1987) *Dreams of a Rainbow*, Mana Publications, Raotonga, Cook Islands: 82 pp.

- Read page 62

Lecture Notes:

- For each of the two lectures write a summary paragraph (1/2 page double spaced at minimum for each lecture) describing in your own words what was covered.
- This Question has three parts:
  - A) How many of the phenomena mentioned in the two lectures have you personally seen (list them)?
  - B) If you have taken a photo of any of these phenomena include them with your assignment (either embedded in the text or as separate photos).
  - C) Which phenomena is most interesting to you and why?

WW2010 – Weblink on Atmospheric Optics

- Why is the Sky Blue during the day?
- Why are sunsets red, or different colored?
- What optical phenomena are the result of light interacting with ice crystals?
- What optical phenomena are the result of light interacting with water droplets?

Thrum Nakuina

- Who is Kahalaopuna? Where does/did she live?
- Who killed her and who resurrected her (first)?

Kauraka

- What do you think the “special berries” are that paint the colors of the rainbow?
- Who is the guardian of the “black light” that makes “silver rainbows?”