

2017 GSA CORDILLERAN SECTION MEETING

Volcanic History and Coastal Processes of Kaua'i

FIELD TRIP #9

DATE(S) OF FIELD TRIP: May 26-27, 2017

COST: US\$208

MAX # OF PARTICIPANTS: 20

MIN # OF PARTICIPANTS: 8

LEADER: *Chuck Blay; TEOK Investigations, 5162 Lāwa'i Rd, Kōloa, HI 96756; office/fax 808-742-8305, mobile 808-639-6436; email teok@aloha.net*

CO-LEADER: *Mike Garcia; Dept. Geology & Geophysics, Univ. Hawai'i; office 808-956-6641; email mogarcia@hawaii.edu*

SPECIAL NOTICE: This post-conference field trip will start and end in Po'ipū, on the south coast of the island of Kaua'i. You are responsible for getting yourself to Kaua'i on May 26 in time to start the trip at 8:30 am, and if you arrive that morning you will need to do so by 7:30 am. One option is to purchase a round-trip ticket from home to Honolulu (HNL) and back, as well as a round-trip ticket from Honolulu to Līhu'e (LIH; the airport on Kaua'i) and back. Currently, interisland flights cost ~\$180 round-trip. However, it may be cheaper to fly directly from home to Honolulu, attend the conference, fly from Honolulu to Līhu'e, participate in the field trip, and then fly directly home from Līhu'e. A travel agent should be able to help figure this out. You are also responsible for lodging arrangements during the field trip (i.e., on Kaua'i – see lodging link below). It is possible to fly into Līhu'e on May 26 in time to make it to the start of the field trip, but you will need to catch a very early flight to do this, so we strongly urge you to arrive the evening before. This will require you to book a minimum of 2 nights on Kaua'i (the night of May 25 – before the trip starts, and the night of May 26 – between the two field trip days). Note that hotel rooms on Kaua'i are likely to be a little cheaper than in Honolulu, so you might as well leave Honolulu the evening that the conference ends (May 25) and avoid having to catch an early flight the next morning. You will need to get yourself to your hotel that evening, however, there is a shuttle: http://goairportshuttle.com/kauai_lihue_lih_airport_shuttle. Finally, only lunches are included in the field trip cost - you will be responsible for your breakfasts and dinners. For more information, feel free to contact the trip leaders.

DEPARTURE: Po'ipū Beach Park parking lot; lodging should be arranged in the Po'ipū/Kōloa area (pickups at some lodging locations may be possible). Participants arriving to Līhu'e that morning will be picked up at 08:00 – make sure your flight arrives sufficiently before then for you to be ready at curbside. If you prefer, you can rent a car and drive in order to meet the field trip group in Po'ipū (the drive is ~30 minutes and parking is available).

ITINERARY:

DAY 1: Friday, May 26: Volcanic Geology: Shield and Rejuvenation Stages

Stop 1 (09:30): West Kaua'i, Mānā abandoned rock quarry; fresh exposure of shield volcanics of Nā Pali Member, Waimea Canyon Basalt.

Stop 2 (10:30): Intersection Kōke'e Rd/Waimea Canyon Dr; weathered roadcut exposure of Nā Pali Member, Waimea Canyon Basalt.

Stop 3 (11:00): Pu'u Hinahina Overlook; axial view of Waimea Canyon; discussion – canyon Origin (restrooms).

Stop 4 (12:00): Kalalau Valley Overlook; discussion of origin of valley and Nā Pali sea cliffs

(restrooms).

Lunch (13:00): Kōke'e State Park (box lunch provided; restrooms).

Stop 5 (14:30): Halfway Lava Rock Quarry; examination of rejuvenation stage Kōloa Volcanics.

Stop 6 (16:00): Po'ipū area; Kōloa Volcanics rejuvenation stage spatter/cinder cone.

Stop 7 (17:00): Optional (if time); Makahū'ena Pt. (southernmost point of island); rejuvenation stage coastal flows (pahoehoe) and collapsed lava tube.

Return to Po'ipū Beach Park (17:30): Dinner Brenneckes Restaurant. (17:30-19:00 pm; cost not included in trip fee).

Presentation-Discussion (19:00-20:30): Days 1 and 2 of field trip; location TBD. Note that transportation will not be provided back to the Līhu'e area this evening.

DAY 2: Saturday, May 27: Coastal Processes and Beach Deposits

Departure: Po'ipū Beach Park (same as previous day; note – no pick-up in Līhu'e on this day)

Stop 1 (08:30): Waimea River Mouth Beach; examination of volcanoclastics.

Stops 2A&B (09:30): Kīkīaola Small Boat Harbor; east and west side natural and artificial (sand bypass) beach deposits.

Stop 3 (10:30): Kekaha Beach; transitional volcanic/carbonate sand beach deposits; trench.

Stop 4 (12:00): Lunch; MacArthur Beach Park; carbonate sand beach dynamics (restrooms).

Stop 5 (13:00): Kawaiele Sand Quarry; pre-modern carbonate beach deposit; carbonate diagenesis.

Stop 6 (14:00): Polihale Beach (restrooms).

Return to Po'ipū Beach Park (16:00): Note that this return time will be sufficient for you to catch a nighttime flight back to Honolulu, and the vans will make one trip to the airport. Please do not make your flight reservation for any earlier than 18:30. The alternative is to spend one more night on Kaua'i and fly back the next day (although ground transportation will not be provided on the next day).

COST INCLUDES: Field trip transportation (via 12 passenger van); lunch (2 days); fresh fruit, snack bars, bottled water, guidebook, hard hats for rock quarry visit.

NOT INCLUDED: Transportation to and from Kaua'i; lodging; morning and evening meals; special dietary needs.

LODGING IN THE PŌ'IPU/KŌLOA AREA:

https://www.tripadvisor.com/Hotels-g60625-Poipu_Kauai_Hawaii-Hotels.html

SPECIAL INSTRUCTIONS: Leeward Kaua'i weather is mostly clear, dry and sunny in May (day temperatures in 70s and 80s); no special clothing required; a lightweight rain jacket is recommended in case of rain; sturdy footwear (covered shoes) is strongly suggested; sun protection (lotion and hat) is required;; 10x hand lens suggested.

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CANCELLATION: Must be made in writing and received by the Field Trip Coordinator, GSA Headquarters, PO Box 9140, Boulder, CO 80301-9140, (303) 357-1006, by **date TBD** to qualify for refund. NO refunds for cancellation notices received after this date. Refunds will be processed as soon as possible after the meeting.