Interview 4 with Aku Hauanio (2/28/99) & Int 5 (3/21/99)

before recording:

--speaking about fishermen w. boats from Ka \bar{u} --he doesn't really know Mitchell Wailani, says Kiko (Johnston) Kanizawa has several canoes at Punalu \bar{u} but not a fisherman

--we looked at the photos of Aku and his brother on horseback going down to Halapē (spoken of in Int. 3), his first fishing trip into the park; Aku says he must be at least 14 looking at photos, maybe it was after the road from Kalapana was dedicated

--picking `opihi: his dad never really told him what size was too small; when young they picked at least half-dollar size (1 3/8" diameter; refers to the meat, not the shell)

he just picked the biggest ones then, because too much trouble to pick small ones

--fishing at 20 Minutes w. dunk rod & whipping rod:

use the whipping pole for menpachi w. 8p line--would be only for nite; too small for day time fishing

dunk pole for ulua, could be day or nite, often go at nite for ulua and again the next morning

--used to go diving (spear-fishing) all along the coast from Kalapana to Waha`ula--Kamoamoa--Lae`apuki; the coast left now isn't very good for diving & doesn't go

went for `uhu, nenue, menpachi, āholehole, hānui (good for poke); they were choosey--didn't take `api or ____

used to have it knocked for `uhu--would watch till they go under a rock to hide, then swim up & wait for the `uhu to peek out, hit it in the head w. spear

Side A

going through Fishing Questionnaireas a pretest: transcription provided of detailed answers to some questions; if the answer was short and unproblematic no transcription is provided)

Q.2 Where do you fish in the park west from the end of the road?

AH: It's usually Kahue and Ka`u of that, Kahue and south.

CL: So Kahue, `Apua, Keauhou?

AH: Yeah, Halapē.

CL: Farther on from Halapē

AH: Yeah, sometimes. But I cannot do em in one day, but you know, I might go in this way (Kalapana side) and then like maybe the next month I go the other way. Trading off yeah? Because that's a long distance to fish that whole area, yeah?

CL: How much can you fish in one day, if you went in from the road?

AH: From Twenty Minutes, the parking lot? You no can do too much, not unless you got a horse that you can load stuff on, you know, and just go and then sleep, go. But if anything I would rather come from on top and then come down and then come out by Pu`uloa. Easy, you coming out to the car eh? You start way down in the heart and work your way out. Cause, lotta times, I don't like pau on the coast, but I know where all the action is, yeah, when I lay out my coast line. So I usually come from inside and work my way out. I know I going catch fish here and there way down deep, but when I come out by `Apua and around Kahue side, that's where most of the fish stay, because nobody fish over there. So I know I going get all, my coolers going be full, just right from in there already, those two areas. Cause if I go in from this way [Pu`uloa], I going have to turn around and come out already, because I no going be able to end up going way in there because of my coolers going be full already. So if I do em the opposite way, you know would be better, because I going be coming out with one little load and then filling em up over here [`Apua & Kahue] and then ending up right here [Pu`uloa].

CL: So you start from Hilina Pali road?

AH: Yeah you can go in from there, or go Pepeiao, come down and then Ka`aha, across Halape, come out.

CL: You would do all that? if you had horses.

AH: Yeah, if I had horses that's the way I would do em. That's a good way.

CL: But do you do that?

AH: No, I don't do em now. If I go I just do, if I go in like `Apua, Kahue like that. I just fish in that area. And then if I going Ka`aha like that, I go around the other way (from Hilina Pali) and go back up.

This side that's one time, and then if you're going go the other side that's going be one other trip.

CL: And you would just do Kalue, or...

AH: Well, that's all depend if I'm walking I would just do Kalue and Ka`aha, just right in there. But if I get horses like that I would try go `Opihinehe and then come back Ka`aha and then come out. Because `Opihinehe got plenty fish too over there too now.

Q. 3 How do you go in to fish?

CL: Do you ever go in by boat these days?

AH: Yeah, a couple times we went, but that was just for party like that, yeah? You know when you need the crew for go in, like that. You making for like a graduation party, or somebody get one birthday party, you know, big thing, yeah? So then you looking for like five, six gallon `opihi, then you go in with the boat. Cause you figure if you gotta hike in everybody gonna be all tired, eh? Where if you go with the boat, you pay a hundred bucks for the boat, you go over there, boom we go in. Whssh! Everybody go down there, wham, pau. Throw everything on the boat, you coming home already. But not being real greedy, you know, you just taking what you like, what you need, and then you're out of there.

CL: Can you think when the last time you did that was?

AH: Oh, was my son's graduation, was June. No wait, was August I think we had his party, so like July went in.

CL: You've never gone in over the new flow by jeep, have you?

AH: No.

CL: When you go by boat you've gotta rent somebody's boat, yeah?

AH: Yeah, I usually rent from somebody own down there. Or we get cousins, they get boats, you know, all you gotta do is just pay for gas and they go. Just buy the gas, they ready to go.

CL: How often would you say you go in by boat Aku?

AH: Oh, maybe one time, two times. As all depends, you know, or this cousin gotta go, this other cousin get kids like that. But it's all depend, you know, who's graduating, who's getting married, like that. So maybe one, two, sometimes three times a year.

(talking about his trip down for Kainoa's graduation party, camped at Keauhou overnight, went to `Apua, Kahue, Keauhou for thrownet, `opihi & got `a`ama crab torching at Keauhou)

CL: Had plenty of fish?

AH: Not bad `Apua. Kahue was kinda shaky, but went get little bit at Kahue, you hittem the right time you can get plenty.

CL: And how much at Keauhou.

AH: Ah, Keauhou not too much. Cause kinda used, yeah, that place over there. Get too much people already over there. Even till today, you know, you go down Keauhou it's like, shit! I don't even like do nothing over there, you know, so much people use the place. I don't even like waste my time go around the coast and look for fish. Not like the olden days.

CL: When was the last time you went straight in by car along where the road is next to the coast and went fishing?

AH: Over there was long time ago, couple months. Was about four, five months ago.

CL: And what did you do that time?

AH: Went down Twenty minutes, camp overnight.

Cl: And what did you fish for?

AH: Whatever, menpachi, ulua.

CL: Night-fishing.

AH: Yeah, and then day time the next day. Went in in the afternoon right after work like that. Fished that night and then the next day.

CL: You went for ulua again the next day?

AH: A, in the morning, earlier. And whatever, just dunk, whatever bite.

CL: Did anything else bite?

AH: Well, yeah, they had like ta`ape, like that, yeah? Only junk get ta`ape bite, that kind. You know, the ulua ones you use big bait, eh? the ta`ape ones you just use regular bait, squid leg and stuff like that. But then for the big boys you put `akule or something like that, `opelu belly strip or something, squid leg.

CL: How many times a year would you say you go in by car like that?

AH: Not too much too, almost the same like boat. Maybe four times. Cause easier to go in by car than by boat, cause most of the time the water is kinda rough.

But you know when you talk about going in by car, you just like hiking in too, pounding `opihi like that too, going in pounding `opihi and carrying em back out like that. Maybe a little bit more.

CL: If you count hiking in. (We talk about difference between "going roadside" versus "hiking in.")

AH: That's why the park they do that like, if you going 100 feet or more [from the road] that's when you gotta get one back-country permit when you do that. If you going right by the road and you going overnight, you no need. But if you going overnight more than a hundred feet off the road, you gotta get one permit. That's like Twenty Minutes you need one permit if you going overnight.

CL: So I should probably ask about going in by car to the side of the road, or going in and then hiking in.

AH: I do that more than all the other two, boat and then roadside.

CL: So, to the roadside did you go at all last year?

AH: Yeah, I went about maybe three times only last year. It was only Twenty Minutes, yeah. Well, actually that's not roadside, that. It's going in that. So, right close to the road kind, no. But Twenty Minute and beyond, yeah, quite a bit.

CL: How many times to Twenty Minutes

AH: About three times.

CL: And then for going beyond?

AH: Couple times. Three, six, nine times, or something like that. It's all depend on the water too, yeah. It's all depend how nice the water come within the year, and then you get time for go. Cause good for go when the water kinda nice.

CL: You don't combine goin to Twenty Minutes and going hiking farther on, eh?

AH: No. Cause it's easier to go from on top, going on a angle like that [from Pu`uloa] than going from Twenty Minutes. You going farther when you go from, Twenty Minutes. Because Twenty Minutes take long time if you going Kahue, you know like how we went. And if you go from mauka you just go, sssh, you right there.

Q. 4 When you go fishing in the park, what all kind of fishing do you do?

AH: I go `a`ama crab night-time, `opihi if the water's nice, and if get `opihi. Most time throw-net and `a`ama.

You know that's just one overnight kinda thing.

CL: Everytime you go thrownet you go for `a`ama too?

AH: Yeah, I usually do em before, yeah, the night before. Cause I go in there and I just kick back, and then that night I just go holoholo. And then the next morning throw-net and out. And then if I going for ulua or something like that, different story already, eh? I gotta get different gear for that. But most time `a`ama all you get is the bag, eh? and then throw-net you use the net, that's all. So main thing you get the coolers, like that, if you going hike in, or you going by horse or whatever. At least you can carry em out. Make sure you get ice outside on the truck or something.

CL: How many coolers can you carry? AH: Two. Oh you mean on my back, no, only one.

CL: So, what about pole-fishing?

AH: Nah. Only when you go with the horse, you can do al that different stuff, yeah? Cause you get place for put. When you gotta carry em on your back, you no can do everything with everything on your back.

CL: But then sometimes you go, if you went to Twenty Minutes, that's for pole-fishing.

AH: Pole-fishing, yeah.

If walks in to `Apua for thrownet--doesn't pick limu, doesn't set net for lobster, or pick up salt.

AH: Not if I walk. Lotta weight, eh, you gotta carry.

CL: Do you ever pick any hā`uke`uke?

AH: Just for eat right there. Sometime I can sit right there and just eat. And just eat, and eat, and eat. If the thing `i`o, hoh! boy look out. And then you get the runs.

CL: When you go for `a`ama, is that at `Apua?

AH: Yeah, I don't go way down far, eh? Usually `Apua, but if I go by horse like that, I go down Keauhou, I go for `a`ama nighttime do. That's all, if I no too much weight like that, I can go like that.

Q. 3d. How often do you go in by horse?

AH: I never been do em too much this 1998. 97 I did em a lot, but 98 was like, most of our job was concentrate on the front country, eh? So we never do too much in the back country. But just this year 99 all of our job was done for the front country, so now that's why we hit the back country now. Actually we usually go every other week now in the back country. But it's all different area, yeah? It's now only the Kalapana Extension area. Went Halapē once already, and went Keauhou once or two times already this year.

[In 98] nothing for the park, actually, but I went one time only with my horse [stayed overnight at `Apua]

Q. 7 So the reason you go in the park, is it just because there's more there?

AH: More there. And it's easy too for me. I don't have to go there and look, look. I know already it's there already, it's like going shopping, eh? You go down `Apua, all you have to do is just throw your net, take em out already. Not like down here, you gotta go throw here, throw there. You wen do like ten throws and you never catch as much as you with one throw down there. And although it's far, but. I just like the back country, you know the atmosphere, with nobody around. And you know, how the land and all that. Nobody around, you on your own around there. It's so peace and quiet. A lotta people don't like that kind peace and quiet kind, but.. I like that.

Side B

Q. 8 Do you go more in certain seasons?

AH: Mostly summer. It's nice and warm. But sometime if the winter season is not as rainy as the summer one, I would go wintertime too. The days are longer in the summer too, you got more daylight for do whatever. Plus you get more flat water during the summer.

CL: Not to do with whether the fish are running or not?

AH: Nah, I no go with the fish run.

[Aku talks about wanting to get more horses, go out to `Apua more when the water is rough. Then the fish come more in toward shore, whereas when it's nice they're farther out.]

Q. 9 How important overall are the fishing resources of the Kalapana Extension?

AH: It's important to me, very important. [bit omitted] See a lot of the people they don't know about why only the Kalapana Hawaiians could fish in there. And I just told em, well you know the park went take all the land on up there. Was all related, all our uncles and aunties' land, and that's why the park had to [give us the fishing right]. And a lot of them they never know that, they just thought, oh you had to be one Hawaiian to fish in there. A lot of the Hawaiians was, eh I'm a hundred percent Hawaiian too and I come from Kaua`i, I should be able to fish there. But they never here the background, the other side of the story, where the park just went take our land. And then they go, oh, nah, wow we never know that. They took our land, so in return of taking your land you can fish there.

Before the 1987 flow:

Re Q. 1--fishing in current flow area

CL: How rich was that area compared to `Apua and Kahue?

AH: Not as rich as that, cause I guess people had more access to this one here, cause the road was right there. So you just had to be there the right time to hit the... as soon as the water came flat, you had to go behind there and pound the `opihi before everybody else would come. Because they would just drive, pull up in the parking lot, walk right there, boom, they would hit em. Moi the same thing. It was right there. They comin, first come, first serve. Boom, they hit em. But like `Apua and that area, you gotta walk way in there, so it's like, I ain't gonna walk way the hell down there just for catch moi or you know. And, that's the only place you going get if you like. You just gotta make the effort to go in there and go get em.

Re Q. 2--what purposes did you go for?

AH: Home use mostly. Very few was for sale.

CL: And some for parties?

AH: Nah, not up here. Mostly we went for parties, would have been way down, yeah? Cause back in those days we would like to keep the one close to the road for the family over here, where they can go and... easy to access to for the families. If we was gonna go [for] party we go way inside. You know, back in the old days, eh they say, you like go party go way down, don't come over here where we can go.

(repeated question for whole park area)

#1. home use
#2. selling AH: Well, back in the old days we used to sell
`opihi, so selling `opihi would be the second one. And then
parties was every once in a while. That was just part of growing

up in our life, so we had to make money somehow, yeah? For me was like poundin `opihi. #3 parties

Re Q. 3--fish in the park more before the flow or after?

AH: I think since the flow, after the flow I mean. Cause most of my fishing was like mostly thrownet, that's all I was doing. Ka`ili`ili, Kamoamoa, Lae`apuki was mostly thrownet fishing. And then every once and a while ulua fishing, pililua [p_p_ ulua] kind, but not as much as down side [Kalapana].

CL: So, is that true for `opihi?

AH: No, I used to pound before the flow too. But had more `opihi then though, too.

CL: So would you say for `opihi, you did more before the flow?

AH: Yeah.

CL: And what about for thrownet?

AH: Ahh, at that time only had like three areas I used to throw up here. But down side [where I go now] get more action though. Soon as the water came good I was like, I knew my spots, I drove out there, looked, chooh! And then was pau.

CL: So you didn't go down `Apua side before, only after you started working at the park?

AH: No. Everything was right up here. Because after I started working, and more people started using this area, so I just started to migrate down the coast. But when I used to come in the boat, that's how I started to know these areas too. So I figured if I walk then I can look em from the land. But when you come from the ocean, then it's different too, it's not like when you walk along the coast and look for.

CL: It's easier from the coast, to see the spots?

AH: Yeah.

Re Q. 4b. How often did you go in by car to the roadside?

AH: (whenever the water was nice) I went drive down there and check the holes to see if I was the first one there. And if the fish was there, I'm the first one there, I take what I need and then after that I no need come back again. I just go check the next one like that and I give somebody else a chance for hit the other one. Cause no was only me, had different people that was checkin the holes besides me. Re Q. 5 Amount of fish then v. now?

AH: Those days planny da kine yeah. Had planny da kine `opihis and stuff too, never had that much people inside here eh? You never need go too far for get `opihi. Even at `Opihikao had `opihi. So you never need go way down. Everbody had whatever they wanted. Had `opihis over here [Kalapana] canoe landing, you know all around here had `opihis. Guys knew about em, but if you hit em the right time, right when the water come nice, you get em.

CL: Whatta you think about the amount of fishing resources in the park today, is it the same as before the flow or is it different?

AH: Some places is different, like Keauhou, or Halap_, it's getting more scarce. Cause more people go there, eh?

CL: Why do you think it is more people go there?

AH: Cause it's the famous area, eh? More people they here about em, they hike to there, and they using the area to the max. So before days you go there, you stand by the edge of the shoreline, you look the fish, stay right there then, not even scared. But now, oh, they see you, kooh! they dig out. You jump in the water, boom, all the fish gone. That's why it's kinda like getting scarce.

`Apua not too bad yet.

CL: How about Twenty Minutes?

AH: Oh yeah, over there its getting worked too. If you go the right time, e get fish. But you gotta know when is the right time. You gotta go with the moon, and the tide and stuff like that. That's how you gotta hit Twenty Minute one. Just like down here same thing too. You go the wrong time, you stay over there all day, all nite, you no even catch fish. Then some nights you go over there, hoh! man busting em up. It's the right timing, eh?

CL: And how about `opihi?

AH: `Opihi is getting wiped out. Everybody comin in on boat, yeah, they raiding em now. And the park no can do nothing, eh, because below the high-water mark. I don know.

CL: Does the flow itself have anythign to do with that, or is it just the number of people coming in?

AH: The number of people. They raiding em with the boat, they rackin em up. Gallons, gallons. Cause that's money, eh? Shit, you take one gallon, you take em Honolulu and you sell em, you

make big bucks. And that's where a lot of these guys they takin em. You figure you take 25 gallon, 30 gallons to Honolulu, that's bucks in that. At least 200 in Honolulu. So you figure \$200 a gallon times 25, 30 gallons. And they buy em like that. Because no more [in Honolulu].

CL: Whatta you think about ulua?

AH: I think still get. You just gotta go the right time. Sometimes it seems like it went change little bit. And sometimes they get wild like hell. Sometimes stay over there all day, and wow! where those guys went, nobody home.

recording stopped--looking at Kalapana fishing list for most frequent users (Aku marked w. a big star): Earl Leite Aku Harold Aiona (from `Opihikao, has moved into the old Souza house at Kaimu) Paul & Primo Keliihoomalu Gilbert Waiau brothers Elia (Boa) Kahookaulana and Sammy Kahookaulana Michael Aina John Hauanio Sr. (Aku's B) and John Hauanio Jr. Abraham Kaapana don't fish much anymore (although starred on the list): Alec Harris Leo Akui--son of Gladys Akui Pancho Kahilihiwa Darren Kealoha Edmund Kaawaloa (still shown w. asterisk but not a really heavy user) Sam (Kamu) Kaawaloa Thomas Quihano (B of Becky Pau) & son Pedro Allen and Darren Kahookaulana (B & nephew of Sammy) Allen Hauanio Kauhi (son of Mrs. Kauhi hanai'd by GF Hauanio) Morris Pavao Leslie Wilson--Mabel's son

recorded discussion of fishermen & where they go (missed part):

AH: Gilbert Wai`au Twenty Minutes max. Elia Kahue, `Apua sometimes. My brother usually roadside. Michael Aina roadside, Twenty Minutes max. My nephew Twenty Minutes, but if I go he usually go with me too but. Most of them all roadside. Bunny B. (Sam Kahookaulana) same thing. He go `Apua every once in a while, but mostly roadside too. Mostly all roadside.

CL: Come back to the ones at the beginning, Earl Leite you said roadside.

AH: Yeah, Earl roadside. Harold (Aiona) Twenty Minutes max, roadside. Paul roadside, every once in a while down (to Kahue, `Apua). Primo Twenty Minutes, roadside. Elia roadside or Kahue. And the other one is Sam Kahookau, roadside, Apua Point. I notice he been going roadside a lot, throwing for moi that's why.

CL: Where can he throw for moi on the roadside?

AH: Oh the kind, eh? kaukele kind, in the sand, eh? by the kind where you get sand is kaukele, for moi.

CL: With pole.

AH: Yeah, night-time.

CL: How come you call it kaukele?

AH: Cause you just casting em and just bringen em in, eh? Kaukele kind, yeah, not like you dunking or anything, just like menpachi kind. Same thing. Only thing menpachi you get the lead and the bait [lead is above the bait]. The other way [for moi] is you get the lead this way and the bait over here [lead is below the bait], so when you bring em in, the moi hit, the lead stay da kine and the bait come , opposite way.

CL: The lead's first.

AH: Yeah, and the bait _____. Menpachi is the lead up front [above] and the bait behind [below]. The moi is the lead behind [below] and the bait in the front [above]. Cause you like the bait stuck down into the shore break. Then when you bring em in, the lead stay down in the shore break and the bait stay up here, and the mois usually hang out in the shore break right there. So when they cruise by they see the bait, and they bite em.

(tape ends)

Interview 5 (unrecorded) 3/21/99

finishing questions on interview:

re Q. 3e. CL: That time you went to pound `opihi for Kainoa's party, how many of you went? Aku: about 8: besides Aku the boatman who took them Melvin Brown, son Kainoa Hauanio, nephew Sam Hauanio, Sam Warren, Ivan Waipa, Kainoa's friends George (Filipino), Kenneth

re Q. 4 <u>`opihi</u> CL: Where all do you pound `opihi? Aku: Kahue, `Apua, 2 spots with boulders between `Apua and Keauhou, Keauhou CL: Do you ever go farther over at Kalue or `Opihinehe, in there? Aku: Only way before I used to go Pāpalehau. Aku said there's a small place there, used have really big `opihi there because unused; now doesn't go anymore because they come in from Ka'ū; asked about `Opihinehe, Aku said he doesn't go there because it's hard to go inside. Before it sank you could swim in, but now it's hard. Re using the Ka` side of park, Aku said 2 guys from Ka'ū come down from the mac-nut area on dirt bikes and hike in for `opihi. Ivan said his brother drives down. pole-fishing CL: Besides Twenty Minutes, where else do you go pole-fishing? Aku said he goes to Kahue, for overnite. Only goes for polefishing when he does that, did it three times recently. [See later for Keauhou & Halapē] What fish do you go for? CL: Aku said for whatever bites--maybe menpachi [on whipping rod], and dunk for whatever. What would you get on the dunk rod besides ulua? CL: Aku said it depends on the bait. If you use a big hook get ulua, smaller hook get $t\bar{o}$ 'au or ta`ape. CL: Do you only get menpachi at night? Aku said it only bites at night (won't go after bait even if it's in front of it), but you can spear it during the day if go down to the caves where they hang out. CL: Do you ever use a bamboo (straight pole)? Aku says he thinks they call that kā mākoi--we talk about how it means casting & he says you need a long bamboo to get your line out over the rocks, have to keep casting the line out & letting it float in. He never uses a bamboo, says that's the old-fashioned way. He doesn't see it too much now, but just saw Noenoe (Keliihoomalu Dunn) doing that behind `Opihikao the other day. ulua CL: Where all do you hang stick?

Aku says only at Keauhou and `Apua, because that's where he has the sticks.

CL: Would you go to the same place at `Apua that we went before?

Aku said he didn't think so, would look for a place on pali either Kalapana side or Ka' \bar{u} side of bay. Also said he'd like to try at Twenty Minutes (place we looked at during site visit).

CL: Where all do you slide-bait?

Aku said besides Twenty Minutes and Kahue, goes at Halap \bar{e} and Keauhou--puts out line if his son guys are hooking fish, do that when they go by boat to pound `opihi for party and they camp overnight. Nothing to do at night except drink or fish.

diving CL: Do you ever go diving?

Aku says he haasn't gone for years. The fish are too scared (over Puna side). Plus he used to go with his brother, like partners, and now his brother doesn't go anymore. Kainoa goes though over this side (just brought him four fish the other night that he got diving)--at Secrets off Pa`ala`a, by Kalanihonua--he looks for the places where the fish are tame [not overly fished]. he wants Aku to fix his boat so he can go out that way & dive from the boat.

Re Q. 5. <u>lobster</u> CL: Do you ever set net for lobster?

Aku said he does if he goes by boat, once in a while takes net in when he goes by horse. Sets net at Keauhou and Halap_. `Apua is not so good, and he's afraid too of catching turtle in the net there.

Other questions:

<u>boats</u> CL: Who from Kalapana has boats now?

Aku says not many--his brother John Hauanio, himself (has a boat though not useable right now--motor good but the boat has a puka to fill), Jerry Dunn. The rest are from `Opihikao

CL: Who has boats at `Opihikao?

Aku says only Ula was from there, his boat is still broker (since the accident where he was killed at Pohoiki). CL: Who would you ask to take you out of Pohoiki?

Aku says he'd ask Melvin Brown, Russell Whiteman. (Melvin Brown lives Leilani, took them to Keauhou to pound `opihi last summer, used to have a fish shop in Hilo before called Hawai`i Tuna)

coastal trail

CL: Do you know a coastal trail from Keauhou to Halap_ that Gilbert was telling me he used to take?

Aku says you can't go all the way on the coast anymore since the earthquake, have to go up on the mauka trail now. He thought there must have been a trail all along the coast once for access to fishing spots, "like the one to Twenty Minutes." We talked about the trail from Halapē to Kāki`iwai that Kaipo Roberts spoke of in Interview 5: Aku says it's scary to go along that area now, if you go to pound `opihi rocks fall in.