

DOCUMENTS CAPTURED AS RECEIVED

SOMSEN - 24

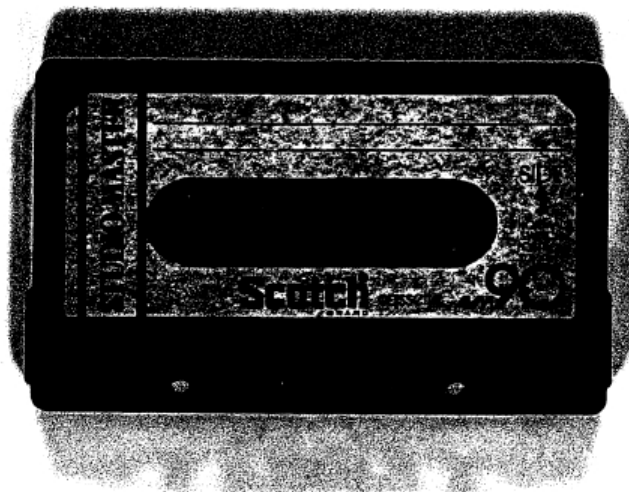
"Scotch" STUDIO MASTER Series A/M Cassettes

Title: Somsen Tape 24

May-June 1980

Group B

MADE IN U.S.A.



#33 (Sunrise 5/30) to #41 (Sunset 6/3)

#24(1) page 1

Okay Nainoa, it's Friday morning the 30 of May and this is navigation report 33.

What is the direction back to the island of Tahiti? (Between hema and southwest haka)

How about the direction to the Big Island of Hawaii? (Northwest nalani)

Distance? (900 miles)

How about our house or latitude this morning? (7 degrees, 15 minutes north latitude)

And how about our position relative to the course line? (House of Asbeligus. 5 west 100 miles)

4 1/2 west, 100 miles)

How about our course at this time? (northwest haka)

And the speed of the canoe? (6 knots)

How about average course since last night? (between northwest naleo and northwest haka)

Average speed since last night? (4 knots)

How about wind direction? (northeast la)

How about the speed of the wind? (22 to 25 knots)

What are your principal swells? (northeast manu, northeast aina, southeast aina and southeast naleo, same)

How about cloud types? (Windy cumulus)

Does that compute under tradewind cumulus? (Yah. Northeast trade cumulus, strado sirius, high)

And what percent of cloud cover? (45 percent)

How about leeway? (about 7 degrees)

And there is someone steering right now, that's Kainoa Lee.

Other thoughts?

Did we in fact pass through an inter-tropical conversions? (Yah, I think that was about 2 north)

So that kind of all over towering cumulus area. (The night we went through the wacko wind, you were sleeping, I think. The night the wind changed. Remember the day east southeast winds and the next morning we had completely opposite, that day. That was when I said I saw the clouds in a kind of mist like doldrums

So it appears we passed through the ITC about 2 degrees north latitude.

Any other thoughts? (We're trying to bust the to beat the record.

Given that this is the 30th at sunset tonight we will have completed 17 days. What do you think

#24 page 2

When are we going to first see one of the Hawaiian islands? (8 or nine days)

How about actuall landfall pulling into the harbor? (I don't know. I don't know ~~if~~ if we
are going to Hilo or going to Molokai to drink.)

Is it possible we're going to stop in Hilo? (I don't know) until

Other thoughts? (I like this wind, looks good. We go this course/tonight and then we ~~fall~~
fall one more house.

This is the end of navigation report no. 33 for the 30 of May, Friday.

It is Friday night the 30th of May and this is ~~xxxxi~~ navigation report no. 34. Nainoa here is
in a particular good mood. I guess I am too.

The direction back to the island of Tahiti? (Between hema and southwest haka)

How about the direction to the Big Island of Hawaii? (northwest nalani)

And how about a distance to the Big Island? (I'll tell you later)

How about our house or latitude? (9 north, house of Enin)

How about our position relative to the ideal courseline? (7 houses west) That's about 154 miles
(155 miles)

I would like to know why 7 houses is 155 miles instead of 154? (you go wide
7 houses from 4 1/2 today)

Because of the steering. Answer to my own question. The change is one of allowing for current.

(Yah. We spent two days in the countercurrent, so we spend ~~1~~ 4 days in the western
current. We suppose to spend 5 days in the western current so one day we spent less
in the western current . And we suppose to spend 6 days in the current, but
we only spent 2, so four of those days we countercurrent. So you subtract
1 west

15 x 3 is 45 or 2 houses. Today we went between haka and naleo, approximately 45
miles, so that comes out to another 1/2 house plus 4 1/2 is 5 plus 2 for the current
7.)

How about our course? (between haka and naleo, northwest)

And how about the speed of the canoe right now? (7 knots)

#24 page 3

How about the average course of the Hokule'a since our report this morning? (same)
average speed? (4 knots)

Wind direction? (northeast ~~mai~~ manu)

Speed of the wind? (22 knots)

Principal swells? (northeast manu, north, hikina, southeast naleo)

How about cloud types? (Trade cumulus, wind clouds)

And how about percentage of cloud cover? ~~(25%)~~ (25%)

How about our leeway at this hour? (7 degrees)

There is someone steering, that is Bruce Blankenfield

Other thoughts? (we lost 7 houses so far, got 19 total and if we are at 9 degrees now,
we're at 8 degrees Steven)

Our latitude tonight is 8 north latitude.

(We're at 8 then we have approximately 6 more houses to go, so if we sail one
house down per day from that particular house, we'll lose 6 houses, $6 + 7 = 13$,
and then we'll have 6 left over. So we'll just follow this course, looks pretty
good.

Other thoughts? (We'll just go for it, straight ahead and speed, get over there
turn down, well going to go home early. I'm pretty glad about not going in the
doldrums.

So home we go. How about an ETA for seeing the Big Island? (6 more days)

End of navigation report

Distance to the Big Island of Hawaii? (900 nautical miles)

End of navigation report no. 34 for Friday 30th of May.

The ETA for just sighting land, just taking a look at the land would be about 8 days from now.

#24 page 4

It's after sunrise the 31st of May, Saturday and this is navigation report no. 35.

Direction back to the island of Tahiti? (between hema and southwest haka, closer to hema)

The direction to the Big Island of Hawaii? (northwest nalani)

Distance? (820 miles)

How about our house or latitude? (9 ~~xxxx~~ degrees, 20 minutes north)

And with respect to the course line, what is our position? (7 1/2 houses to the west, 165 miles)

What about our course? (northwest haka)

And our speed? (4 knots)

How about our average course since our report last night? (northwest naleo)

How about average speed? (6 ~~xx~~ knots)

How about wind direction right now? (northeast noio)

How about speed of the wind? (15 knots)

The swells that you've been looking at and using this morning? (akau, northeast manu, northeast la, and southeast nalani)

How about cloud types? (rain cumulus)

Are there any tradewind cumulus? (yah, some)

Any other cloud types? (high sirius, not too much)

Overall what is the percent of cloud cover? (I would say 80 percent)

How about leeway? (8 degrees)

And we do have someone steering right now, Bruce Blankenfield.

Other thoughts on the navigation? (A lot of changing wind.) Is this what you call fighting wind? (no, not really. The fighting wind was last night, I don't ~~if you~~ know if you were up, but the canoe wouldn't move. No matter what you steered, you turn down, it doesn't move, that's the fighting wind. This is change wind, it shifts, and it stays in the straight, you can get a form. Fighting winds is like two winds and the water gets flat. vibrating like, that's the fighting winds.

Other thoughts? (Well, we're pretty close now. ~~xxxx~~ If we hold naleo all the way, we go to 21 degrees north, we don't find the land by then then I think we're to the east, we'll turn down wind. I figured on adding on 6 to 7 more houses for the whole Hawaiian chain on the heading of naleo. So we should pick up something, if not, then we just turn down wind. We ~~js~~ should be there in a day.

#24 page 5

So strategy now is northwest naleo till 21 degrees north. (No, try to hold akau today, if we can, but the switching wind is no good, if we can hold akau till ten degrees north, then we will turn down to naleo, naleo to the Big Island.)
End of navigation report 35 for Saturday 31st of May, last day of May.

After evening twilight on Saturday the 31st of May and this is navigation report no. 36.
What is the direction back to the island of Tahiti? (between hema and southwest haka, closer to hema) f

How about the direction to the Big Island? (northwest nalani)

Distance now or later? (later)

How about our house or latitude? (10 1/2 ~~xxxxx~~ degrees, 30 minutes north latitude, house of Enin)

What about our position relative to the course line? (7 houses west - 155 miles)

What is our present course? (northwest naleo)

How about our speed? (Maybe 6 knots)

And is northwest naleo the average course throughout the day? (No, between akau and northwest haka)

How about ~~xxx~~ average speed? (4 1/2 knots)

Okay, latitude is actually 10 degrees, 15 minutes north

How about wind direction? (hikina)

What speed? (12 knots)

Principal swells? (akau, northeast manu, northeast aina, southeast aina)

How about cloud types? (Overcast sirius and tradewind cumulus)

And percent of cover? (Would you call that foggy stuff cover) I would think not, not as long as you can see the stars. (60 percent)

How about leeway? (I would say no more than 3 degrees)

And we do have someone steering, it is Nat Wong.

Other thoughts? (Well, we're turning down to naleo now for two days and then it's coming in kind of close where the land is, but we'll take a chance. We'll sail this ~~out~~ either until 18 degrees north or until I feel like changing the course. At 18 degrees north we'll try to hold the direction of akau until 21 north. At 21 north, if we ~~have~~ have

not sighted land by then, we'll turn due west until we find the land. Did you tell

Alex about our course change, you don't need too, he knew already, hugh.

He knew about the one to northwest haka, I don't think I told him about northwest naleo.

That's the end of navigation report no. 36 for the 31st of May.

It is now about 3 a.m., Sunday morning on the 1st of June aboard the Hokule'a And a note about our galley stove. We have our two propane fuel tanks filled up that's is topped off in Papeete Tahiti and of course we started using the first one upon departure, which was on the 13th of May at 5:30 p.m.. And that first tank just now ran out at approximately 3 a.m. on the 1st of June.

So here it is after sunrise on Sunday morning the first day of June 1980 and this is navigation report #37.

What is the direction back to the island of Tahiti? (Between hema and southwest haka, closer to hema)

How about the direction to the Big Island of Hawaii? (between nalani and northwest manu)

Closer to nalani? (about the center, a little bit closer to manu)

Distance later? (600 miles)

How about our house or latitude? (House of Regulus, 11 1/2 degrees, north latitude)

How about our position relative to your course line? (7 houses west) for Alex it is 155 miles west.

How about the course of the Hokule'a right now?

We went maybe 7 1/2 yesterday. (You sure) On one report I think 7, another one 7 1/2, I don't remember which is which. (You better check it) Okay, I'll check it out.

(Our course is naleo northwest)

And our speed? (6 knots)

How about average course since last night? (northwest haka)

Average speed? (6 1/2 knots)

How about wind direction at the moment? (Hikina)

And at what speed do you think? (15 - 18 knots)

How about principal swells? (northeast aina, northeast manu, southeast manu, That's all the ones I am going to use)

How about cloud type? (Tradewind cumulus, good wind clouds, high sirius, scattered, the same ones that block the stars outside)

Which is what high sirius, right? (Yah) Real thin though yah. (Some are thin, some thick though, The one by the horizon was there all day yesterday and all day last night. was much more defined yesterday though.

I feel that cloud is there, there's a little notch in it too yesterday, and that notch stayed in the same place the whole day. My feelings are the thing is not moving, so that must mean that thing is very far away, or it's not going to make any impression as going at 4 1/2 knots during the day. Amazing how far away that thing is.

For it to be far away then though, it would also have to be pretty good height. What about percent of ~~xxxx~~ cloud cover? (counting the sirius, 75 percent)

What about leeway? (5 degrees)

We do have someone steering right now, Bruce Blankenfield.

Other thoughts on the navigation? (It's good) It's cool wind and that means what? (going home someplace) Going home in northeast trade. Last night was humid, don't you think so. Yah, but it really cleaned up this morning. Trades are nice now, I mean clouds are nice.

I know something I haven't checked in with you in a while and that is what about the clue stars that you ~~xxxx~~ used for latitude last night? (zero) There just weren't any that were matched up when it broke through the clouds? (There was nothing) Did you see Polaris at all last night?

(The only one I saw was Aldemen, but Aldeman is way too high already. Aldeman, Alfrerd, those two stars, they are absolutely way too high. Kochab's too high already. The only stars you could use any more if Polaris and all the southern stars were never in the right position.)

And is it not true that a lot of them this late in the season and the voyaging season are available only kind of the early part of the evening or ~~ix~~ at least from say sunset to maybe

up till midnight? (Yah, that's right, more of them are. After midnight is only Atrium,

Hara, and Twocana, and the Peacock.) Peacock, that's an indus.

Other thoughts? (Go like this for a couple more days) How many more days till 18th? (At this speed, maybe 3 1/2, or 3 days. About 450 miles, so we make 150 miles a day, given 6 knots an hour, straight course would do it for 3 days.)

End of navigation report no. 37, for sunday the 1st of June.

Now it is Sunday morning the first of June, we have for the first time on this trip a reef sail. It is our lahope sail which is our bezen sail if you will and it's been reefed for some time, perhaps a couple of hours, just as I was speaking, Nat Wong, H. Pialua, Nainoa Thompson, Chad Baybayon and Kimo Lyman were shaking that reef out. So we are now again under full sail.

time of the navigation report no. 37 will be logged as sunrise information applicable to that time sunrise, but the time of the report actually occurred at about 8 a.m., and that is the time that the reef was taken out of the sail.

This is Sunday night, it's the first of June and this is ~~xxxi~~ navigation no. 38.

What is the direction back to Tahiti? (between hema and southwest haka, closer to hema)

How about the direction to the Big Island? (manu)

How about a distance in nautical miles? (550 miles)

How about our house or latitude? (13 1/2 degrees, north latitude)

How about our position relative to the our course line? (7 1/2 houses west) What do we call that 165 miles?

How about our course? (northwest naleo)

And at what speed? (7 knots)

And has northwest naleo been our average course since this morning? (No, between haka and naleo)

How about average speed? (6 knots)

How about the direction of the wind? (northeast aina)

How about wind speed? (20 knots)

What kind of swells did you use today? (northeast manu, akau, southeast aina, northeast aina)

How about cloud types? (tradewind cumulus, high sirius, that's all)

And percent of cloud cover? (50 percent)

What about leeway? (up to 8 degrees, between 6 to 8/ 7 leeway is being set by the waves.)

I think you can still count it as leeway which includes being 7 set downwind to leeway by waves of between 6 to 8 degrees.

And there is someone steering right John Cruz.

What about clue stars for your latitude? (There aren't any, awfully cloudy)

And how about Polaris? (We're at a bad place right now, I can't get a measurement yet.)

Any other thoughts? (Just hold this course and see what happens) Hold the course for how long?

(2 days. I saw a land bird today, definitely a land bird) What kind of bird was it?

(Looked like the manuku. I was wondering where it came from, but that's the land bird) Morning, afternoon, when? (afternoon)

End of navigation ~~report~~ report 38 for the very first day of June, sunset report.

Added note to the navigation report #38. Nainoa indicated tonight that he is tired, he doesn't understand why. He feels a little sick, pointed to his chest, so perhaps he's got a bit of a chest ~~was was~~ cold. My own personal opinion, it seems to me he's worked harder this trip than the last one, by the fact that last time was a longer trip, by the fact that we had a week rough weather to start out with. He seems to be working more intensely this trip and I think he's working well, although it does appear that he's made a few more technical mistakes this time on the reporting of his position, but it seems to me he is still thinking clearly in terms of the navigation itself from Tahiti to Hawaii. I'm sure he has a very clear idea where we are ~~going~~ going and where we are. I'm confident of that.

Communication with Alex. The preceding ~~radio VHF~~ recorded VHF radio communication was between the skipper of the escort vessel, Ishka, Alex Jacubenko and the skipper of the Hokule'a, Gordon Piiianaina on the ~~first~~ first of June commenting about the close proximity of the Ishka to the stern of the Hokule'a during an exchange of some fish in the morning of the first of June.

As of 10 p.m. on the first of June, 1980, the Hokule'a is at 14 degrees north latitude and Nainoa has indicated that we will start a new sailing day as of now, 10 p.m. first of June. Sailing day actually a measure of distance 120 nautical miles. So one sailing day for example might be from 14 degrees north to 16 degrees north latitude. Then from 16 to 18 north, then from 18 to 20 north.

This is navigation report no. 39 for Monday the 2nd of June.

What is the direction back to Tahiti? (hema)

What is the direction to the Big Island? (manu, northwest)

Distance now or later? (later)

How about our house or latitude? (As of sunrise, ~~northwest haka~~ House of Denebilin, that is 14 degrees, 30 minutes north.)

How about our position relative to our ideal course line? (7 1/2 houses west of the line for this report) And I did log incidently your idea about the new starting of the sailing day at 10 p.m. last night. We are ~~going~~ going from 14 to 16, 16 - 18, and so on.

How about our Hokule'a course? (between northwest haka and northwest naleo)

How about the speed? (6 1/2 knots, Call it 5 1/2 knots)

What has been our average course since our report last night, from sunset to sunrise?

(In between northwest haka and northwest naleo)

And how about average speed during the night? (You're talking about now or) Well no really let's call it the sunrise report. (5 1/2 knots) You're talking about the speed now? I guess so. (6 knots present speed)

How about wind direction as of now? (hikina)

And the speed of the wind? (15 knots)

How about primary swells? (northeast manu, southeast aina and southeast manu) Is there an northeast manu in there? (No)

And how about cloud types? (high sirius, tradewind cumulus)

How about percent of cloud cover? (50 percent)

And leeway? (3 degrees)

And Bruce Blankenfield is steering.

Do you have other thoughts on the navigation? (No - Same strategy to get ~~xxx~~ back to the Big
~~Is~~ Island and home to the Hawaiian Islands.)

End of navigation report no. 39 for the 2nd of ~~xx~~ June.

For the navigation report no. 39, the distance to the Big Island of Hawaii is 420 miles.

This is navigation report no. 40 and it is Monday night, 2nd of June.

What is the direction to the island of Tahiti? (Hema)

What is the direction to the Big Island of Hawaii? (northwest manu)

How about a distance there? (360 miles)

How about our house or latitude as of sunset tonight the 2nd of June? (Out of Baron, 15 degrees,
45 minutes north)

How about our position relative to the course line? (8 1/2 houses west of the line)

How about our present course? Well it's got to be northwest naleo, right? (right)

What is our speed? (6 1/2 knots)

What has been the average course all day long? (naleo northwest)

How about our speed, average? (6 knots)

~~Wt~~ How about the wind direction. We were talking about the changing wind earlier, but ~~xx~~ at
this moment, it is coming from where? (~~northwest~~ east-northeast or northeast aina)

At what speed? (18 knots)

How about the swells you are using today? (southeast manu, akau, northeast aina,
southeast manu)

How about cloud types? There aren't really very many right now, what are they? (trade cumulus)

So indicative of straight wind? (Yah)

What percent of cloud cover? (20 percent)

We do have someone steering right now, that is Wedemeyer Au.

And how about our leeway? (7 degrees)

Other thoughts. Are there like pair stars you might have used? (We're 16 north right now. I

used the heights of Muska and Polaris. They all showed 16.)
I see the southern cross is upright very nearly so right now, does that mean that almost for sure by the time we get up to the latitude of the Big Island and later to Maui that you will be able to discern the difference there? (Yah, I looked at it. You start to measure when

it's not even equal that, but it shows ~~after~~ after sunset.

We have plenty time.)

So ~~you're~~ you're saying roughly till the middle of June would be okay? (Yah)

Other thoughts? (is really good.

I think two we will be right there; either on the islands or ready to go west and midnight two nights from now. That's upwind but. It's pretty easy now to hold a simple one course we'll just make up the mileage, shorten the to the line. Mau, I talked to Mau and asked him how far do you think the Big Island is, he told me 100 miles. Whether it is his job or not, I really think it's neat that I want to learn and see how he does it. So we look at the latitude, I'm going to be looking for the land and I want to find it first, but

I'm also going to be watching him to see how he does it. He doesn't involve himself in the navigation
at /at all this whole trip, you know that, everyone noticed that.

I
(Those kind of talents, ~~we~~ don't have but it would be good to learn cause otherwise when he's gone, we'll never have it again, so ~~we~~ take advantage any way looking for the land and being able to say there it is and this is why and learn as much as I can. It's almost over.

That's the end of navigation report no. 40, it's Monday night the 2nd of June. Southern cross is upright and sinking lower in the sky.

It is now Tuesday morning the 3rd of June 1980 and we are just about to get navigation report no. 41, but part of that note to the Hokule'a log that at least one land bird was sighted, a bird of the land. Off port perhaps four points aft of the port manu, there is some very intent gazing by one Michael Tongg in the direction of the land which Nainoa claims is now in northwest noio, and by tonight it will move to northwest aina.

This is navigation report no. 41 for Tuesday morning the 3rd of June.

What is the direction to the island of Tahiti? (between hema and southeast haka)

That's brand new in that direction. In between, or closer to hema? (closer to hema)

How about the direction to the Big Island of Hawaii? Did I understand you to say northwest noio?

(okay)

And how about distance up to say Cape Kumukahi Light? (210 miles)

What is our house or latitude as of sunrise this morning? (17 degrees, 30 minutes north,

Hokule'a Kaulua) Pair of Hokule'a (okay)

What about our position relative to the course line? (8 1/2 houses west)

And how about the present course of the Hokule'a, is it still northwest naleo? (Between naleo and northwest nalani)

How about our speed? (8 knots)

How about average course of the Hokule'a since our report last night? (northwest naleo)

How about speed? (6 1/2 knots)

How about the wind direction at this time? (Northeast aina)

Speed of the wind? (22 knots)

Swells you have been looking at this morning? (northeast manu, northeast aina, southeast manu)

Cloud types? (tradewind cumulus and high sirius - 40 percent)

Leeway? (7 degrees)

And we do have Kainoa Lee steering.

Other thoughts on the ~~xxxxi~~ navigation? (Stay up to 21 north then turn left that's all)

Stay on this course between northwest naleo and northwest nalani until 21 north? (Yah)

And then turn what direction? (Komohana)

How about your clues for latitude, what pair stars were you able to use last night? (southern cross, Atria, Alpha Beta, north star)

Q No other stars in the northern sky, I guess, what they are too high? (north star and kochab)

Which you do in the early evening or the early morning? (middle of the night when kochab is on top of polaris)

End of navigation report no. 41, for Tuesday the 3rd of June. Tonight at sunset we will have completed three weeks.

It's after evening twilight on Tuesday the 3rd of June. We have been three weeks at sea as of sunset tonight and this is navigation report no. 42.

Direction to Tahiti? (hema and southeast haka)

About halfway? (between)

Direction to the Big Island of Hawaii, Cape Kumukahi Lighthouse? (northwest aina)

Distance to that same lighthouse? (forget that one) (

House or latitude as of sunset tonight? (18 degrees, 45 minutes north latitude, house of Hokulea)

(What was the distance this morning) 210 miles (that's wrong) This morning's report number 41 210 nautical miles is wrong. The distance now to Kumukahi lighthouse is 300 nautical miles.

Our position relative to your course line? (10 hours west or 220 nautical miles)

Hokule'a course rightnow? (northwest naleo)

Speed of the canoe? (6 knots)

Average course throughout the day since sunrise this morning? (~~between~~ northwest naleo)

Average speed? (6 1/2 knots)

Wind direction? (northeast aina)

Wind speed? (18 knots)

Swells you used during the day today? (akau, northeast manu, northeast aina, southeast manu)

Cloud types? (high sirius, indicative of some kind of change, rain squall clouds to the south.

Total cloud cover about 20 percent)

Leeway? (7 degrees)

Wedemeyer is doing the steering.

Pair stars that you have been able to ~~see~~ use so far this evening for latitude or position, clue stars rather? (southern cross, that's all)

Will you still be able to make that comparison between kochab and polaris? (Yah, use the 18 degree star, kochab's pau already)

Any other clues that you might be looking for for the remainder of the night? (Alpha Beta, possibly Atria, Aura, Peacock, Tukana, all the stars that go above the north star) which would include those in Ersa minor and Drako.

Other thoughts on the navigation? (As soon as I know we are 19 north or maybe a little bit higher, we're going northwest. ~~I~~ My idea is to get to 20 1/2 degrees north at sunset tomorrow. If we go on this course, I think we are going to get there, we're going to be higher, can't help. I'm certain of it, if we went on this course northwest na'leo and this wind speed, we'll be higher than 20 1/2 by tomorrow night. So what I want to do is I want to go; as soon as I know, Island are to the west of us and they are not to the east, if I'm wrong, well, we're in big trouble. But it's too late already, that's the way they ~~are~~ are. So as soon as we get to about 19 1/2 depends on the wind speed, we'll turn down maybe northwest manu, try to time it so that we get to 20 1/2 degrees north tomorrow night at sunset.)

Why is it important that we be at 20 1/2 north tomorrow night the 4th of June at sunset?

(It's important so that we know when to turn down. You can't tell during the day, there's no clues to tell you the latitude. And if you wait too long that means you'll be too high ~~that~~ and you have to come back, that would be a waste of time.)

Now 20 1/2 degrees north latitude is a little bit below Oahu, but what does it compare with, What islands are in that latitude? (Maui) Like what part of Maui for example? (Haleakala)

(See if we could get there it would be under 20, maybe northeast manu and tomorrow night it would be under the 20 degrees 15 minutes, that would be good, so that's when we'll begin to sail, northeast manu until we get to 20 1/2 degrees then turn left. But the bad thing would be to sail too far north during the day and not know it, then we would have to tack and come back, steal away some time. The Island are to the east of us we turn to the westward direction, it's not going to hurt us.)

This is the end of navigation report no. 42 and it is for the sunset report for Tuesday 3rd of June 1980. Again as of sunset tonight we have been at sea for 21 full days or 3 full weeks of sailing.

And now it is ~~still~~ still the evening of Tuesday the 3rd of June and I'm just talking a moment ago ~~wh~~ here with Mike Tongg. And we observed that the star Nokule'a, the star that this very canoe is named after is now almost nearly overhead, in fact it is overhead. Just lahope mast, it was interesting to see that the mast as the canoe moved made small circles about the

star ~~Makua~~ Hokule'a much as David Louis described one time observing this star Spica. He the very same mast four years ago and so we are in the house of hokule'a and the Big Island of Hawaii and the rest of the Hawaiian Islands are almost certainly off to the west. Many of the crew members are here on the afterdeck looking out towards the west, looking for signs of the land; lights, lighthouses and so on. And it is believed that perhaps the loom of the light house either at south point or perhaps at Cape Kumukai on the Big Island was sighted earlier and may still be in sight. This would be the loom of the light. Michael what are your feelings right now as we scoot along here at a good speed maybe doing 7 knots in the northwest naleo? (It's been two years of hard work and it seems to be coming completely to a close in the next couple of days. I'm looking forward ~~to the end of the voyage~~ to the voyage part, but I'm not looking at the end of the education information passed down. Wondering right now

You mentioned just a moment ago ~~and~~ that you might have some kind of ties, what's that?

(Happy ~~it~~ birthday to Steve) Now here it is the 3rd of June and my own birthday is not till the 26 of August so what is the occasion for the birthday song.

some of the stars ~~that~~ that are visible now as we look off towards the west, of course the stars Castra and Polix has just gone down on the west, but what are ~~the~~ some of the others that are visible here. (Well as you look west, a lot of the navigational stars have really kind of settled close to the horizon or in the cloud cover, that is you come up from the west and you are moving towards the east, I guess most visible one would be Cancer the Crab, that's maybe about 10:00 and then above that you have the configuration of Leo the Lion with the two planets plus the brightest star in the formation which we use a lot in navigation which is Regulus. And then of course you come up to almost inspiration ~~the~~ star which is Ve'a, south, Spica, which is the formation of a virgin and then to the far side you can see Alpha and Beta and the southern cross which is starting to very shortly. And then to the north, of course, the most important which ispa'a, which is the north star and of course the pointer stars which go along with that which are at the top of the head the big dipper. And then going more toward

the east and in the direction of the northeast the stars vega and you could see the rising of the northern cross or the swan. And also to the east you can see mylap which our term would be Altair.)

And now Mylap is a term used by whom? (By Mau, which we first to the direction of the east. However, for our purposes, slightly northeast. Also which is visible going back toward the south between the south and the east is the formation of Scorpio. And most important of course is Anterus which is the heart of the Scorpion. It is very interesting to note that when we were in the southern hemisphere the scorpion rose almost in a lying down position. For instance the body was horizontal to the horizon whereas, when we crossed the equator now that we are in the northern hemisphere, you see very clearly that the head portion rises whereas in the rising position for the tail upward position. Most of the stars that are in the southern hemisphere have changed drastically in the pattern in which they have arisen or have come up and moved across the sky in a clockwise direction and it's really something that you probably can only witness on the ocean to get a birdseye view. Of course the other place is the planetarium, but for really a fascinating view and to really experience it, I think the only way to do it is out here in the ~~xxxx~~.ocean.)

Well Michael you certainly seem to have a thorough knowledge of the primary navigational stars here as they appear here Tuesday evening the 3rd of June as we proceed towards the Hawaiian Islands. You mentioned the studies in the planetarium, of course ~~of~~ all of them the crew had these sessions at the ~~xxx~~ planetarium available to them. I wonder though for yourself, did you say more of the stars for yourself were learned in your own study and at the planetarium or really once you get out here, what do you think? (Well to give you just a basic idea, the formation, it came from personal study. And then to see how they inter-relate to one another, basic background would be the planetarium. However, for the actual changes and to really see the differences, I think it is out here on the ocean. There's one other aspect I would really like to bring up and that is before we saw any evidences of land here, it's really kind of funny to know some of the things that we look for. For instance, we talk about the sea birds and land birds.

A couple of days ago we were possibly out a little further from land than we are now and we saw a land bird which was the Monoku and then shortly thereafter, we witnessed other evidences of land. There was a duck for instance and then piled up ~~some~~ some rubbish in a plastic bag that were floating on the top of the ocean clearly giving us an indication that land is very close. Finally, it was today that I think Nainoa pointed a chicken came flying by so I really believe that we are getting somewhat closer to land.)

And Michael, what is the feeling about that. We've been three weeks at sea, spent a long time and preparation for this voyage; mixed feelings about getting to the land, what are your thoughts? (Well yes, definitely, I have mixed feelings. Of course ~~Excessive~~ on the positive side we are always looking to coming home and then on the negative side there's always that unexpected touch of possibly going to the Calanuiya, where the July rather than returning to the land in Honolulu at this point and time.)

And of course Michael that would naturally be the arts and craft festival in New Caledonia in which you speak? (That's correct)

Nainoa: (I'm just wondering if the land is there it has an effect on ~~the~~ the condition of the ocean. The wave is not straight. You see it peaking like this. When the wave peak, it's from different directions... You know the I was telling you about; you know the ones against the rocks that fall off, same thing. We are at the latitude of the Big Island.)

So the question I would have is how far away would this effect take place you think? (That's right, I don't know. If You see, if it is a changing wind the wind hasn't changed. Even in the squall the wind's the same direction. Do you think the water is as bumpy as my imagination?)

I'm not sure. It may be something that we are feeling because we changed course. We were riding the waves a little bit more differently. (That's right, that could be right) But let's consider that. Do you think in spite of the fact we are going in different courses still bumpy, what are your thoughts. To go where? (you watch we'll hit 20 in a few seconds.

What was the question? You ~~might~~ might be really right.
down.)

turning

Let's say we account for turning down, do you feel that maybe there is still a bump to the water
that we would feel even if we were pointing? (Say Yah maybe, I don't know. But you know

the time that I needed the most, that one is the wind, normal wind. Try wait till
a squall comes by and stop. Maybe the squall has something to do with it. If we are
in the side of the Big Island, say we are, that's the first time I've
ever been there, so I don't have nothing to gauge in.)

you don't want to make a big deal about it, but what, from it, what do you see?
(Just a round top. I don't see any white clouds. I just want to go here and
tomorrow, if there is no land here, we're going west. If it is to the east, it's
too bad. We're going to go west for at least 200 - 300 miles. Hopefully it's in that
direction . Everything is showing, Polaris, all the
stars are showing. Might be nah, we're not too far north.
(See the water, the waves are any kind. Peak there and there's a peak there,
there's no mishmash . Y'u see it all. We'll see, see you tomorrow.

Recorded on the early morning hours, perhaps 3 a.m. on Wednesday the 4th of June. Thoughts
about possibly approaching the windward side of the big island and the effective that that
windward side might have on the sea conditions.

It's not clear yet whether we have actually sighted land or not, but it is Wednesday, it is the
4th of June and we may have started line as early as ~~8:15~~ ~~8:15~~ 12 noon today. Again around 4 p.m.,
Nainoa felt he may have seen the land ~~at~~ but is not sure. We've seen images, ~~the~~ shapes of what
appear might be out of the big island and maybe Haleakala. Incidentally this whole sailing voyage
from Tahiti towards Hawaii, we've been for the most part on port tack. We're now sailing on
starboard tack and have been just about 2 p.m. this afternoon. So it is a change in strategy.
We are sailing almost due west, along the latitude of 20 1/2 degrees, north latitude, going to
the western direction. We'll hear more about this in navigation reports later. I might mention
that now, as it is about 5:30 in the evening on the 4th of June Wednesday, just caught a 30lb aku.