

# The Blue Ice Ensemble

*Dargan Frierson banjo*

*Dennis Hartmann bass*

*Sandra Penny fiddle*

*Mark Zelinka guitar*

*Brian Smoliak drums*

Walt Disney Presents

# Davy Crockett

TWO MOVIE SET



*Norbert Untersteiner*  
*King of the Arctic Ice*

copyright pending

Born on a mountaintop across the sea  
'Fore he could walk he knowed how to ski  
Climbed in the Alps 'til he knowed ev'ry peak.  
Wrote his dissertation in less than a week!











Once a great professor by the name of Church  
Had a new position in Arctic research.

He wrote up an ad that he sent far and wide,  
But the pay was so low that nobody applied  
except--

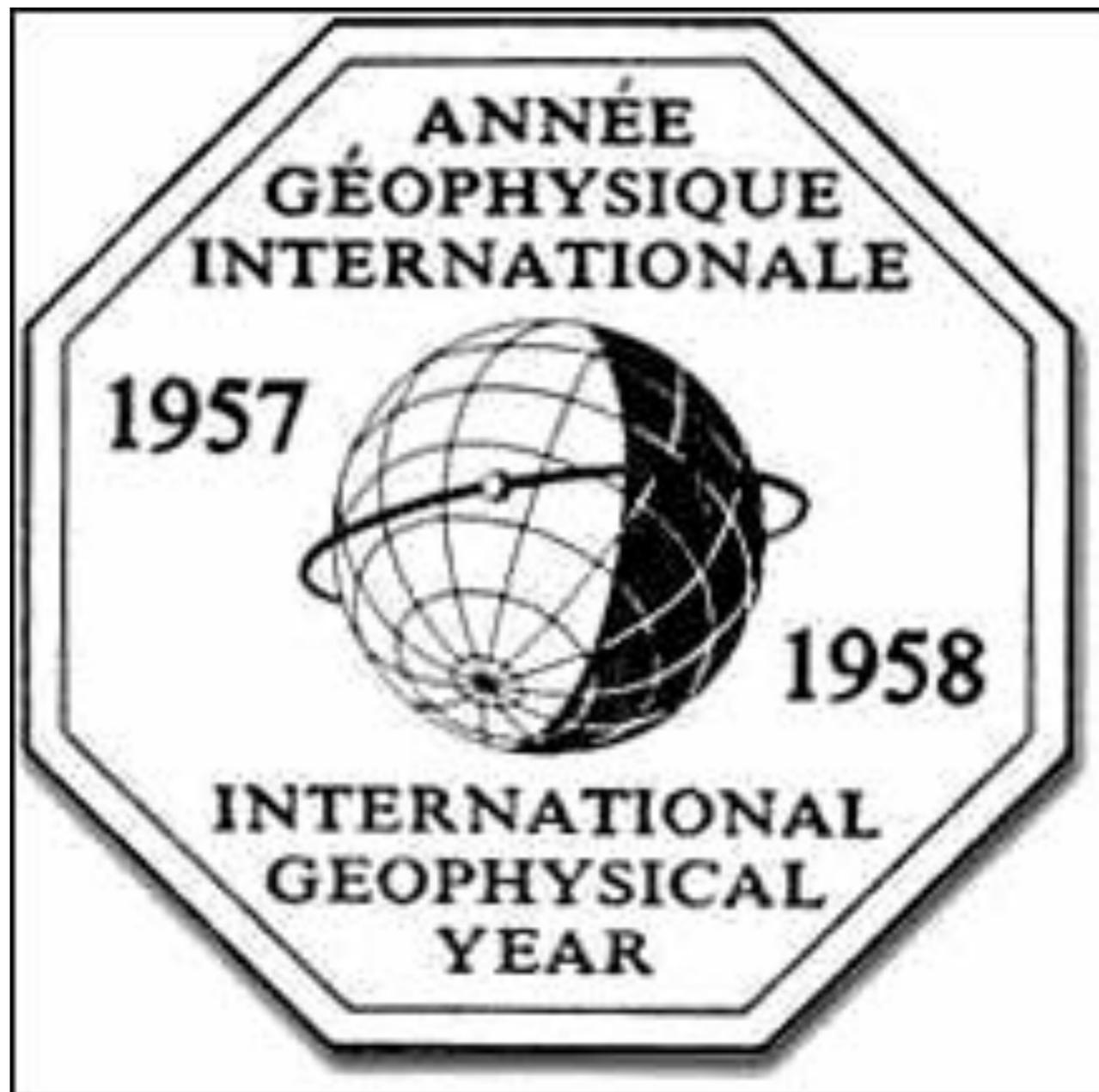


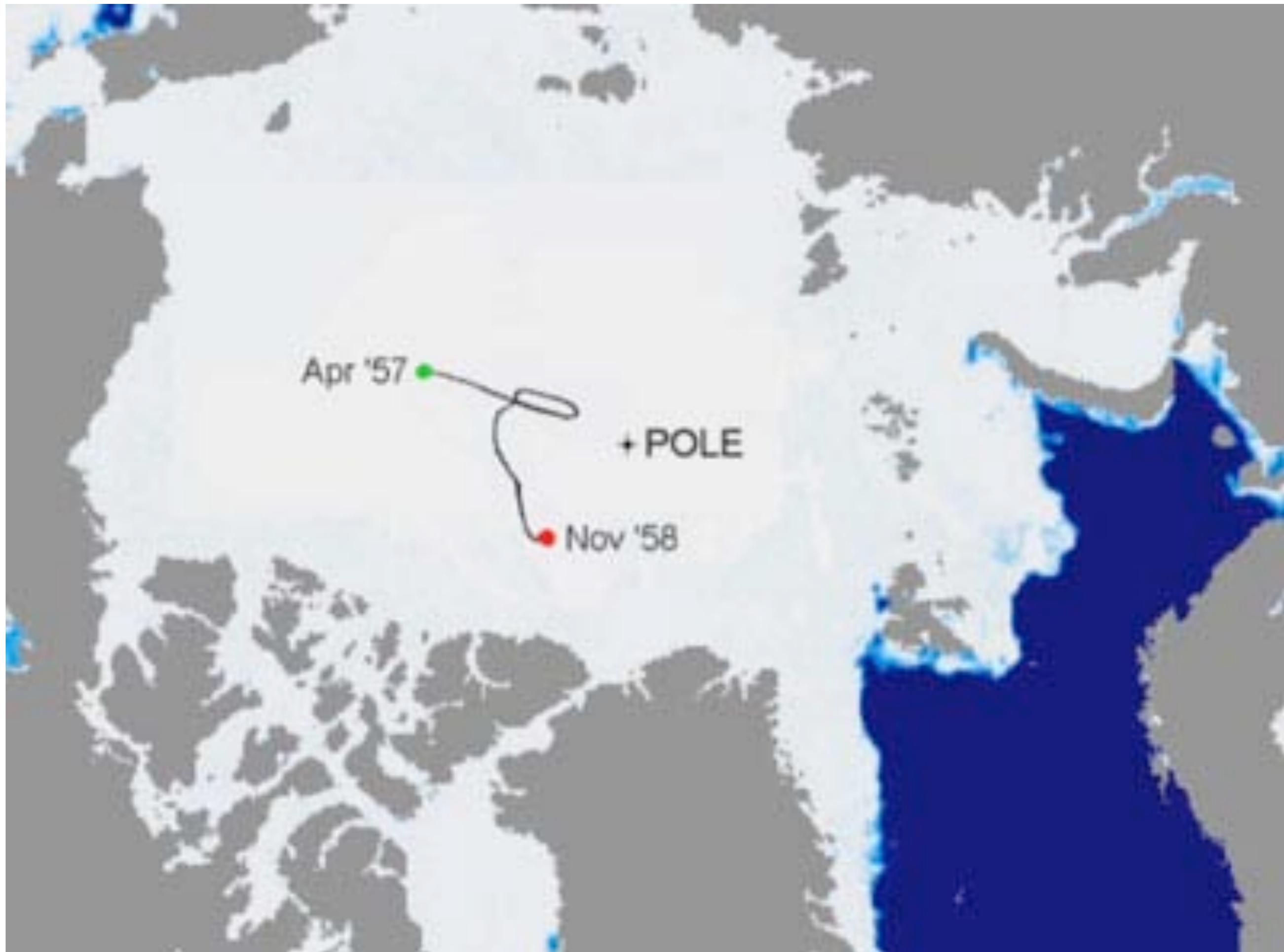


*They sent him to the Arctic in the IGY*

*They dropped him a tent from out of the sky*

*They said, "See you next year... -now don'tcha be late-  
We'll catch you when you... come out o' Fram Strait"*





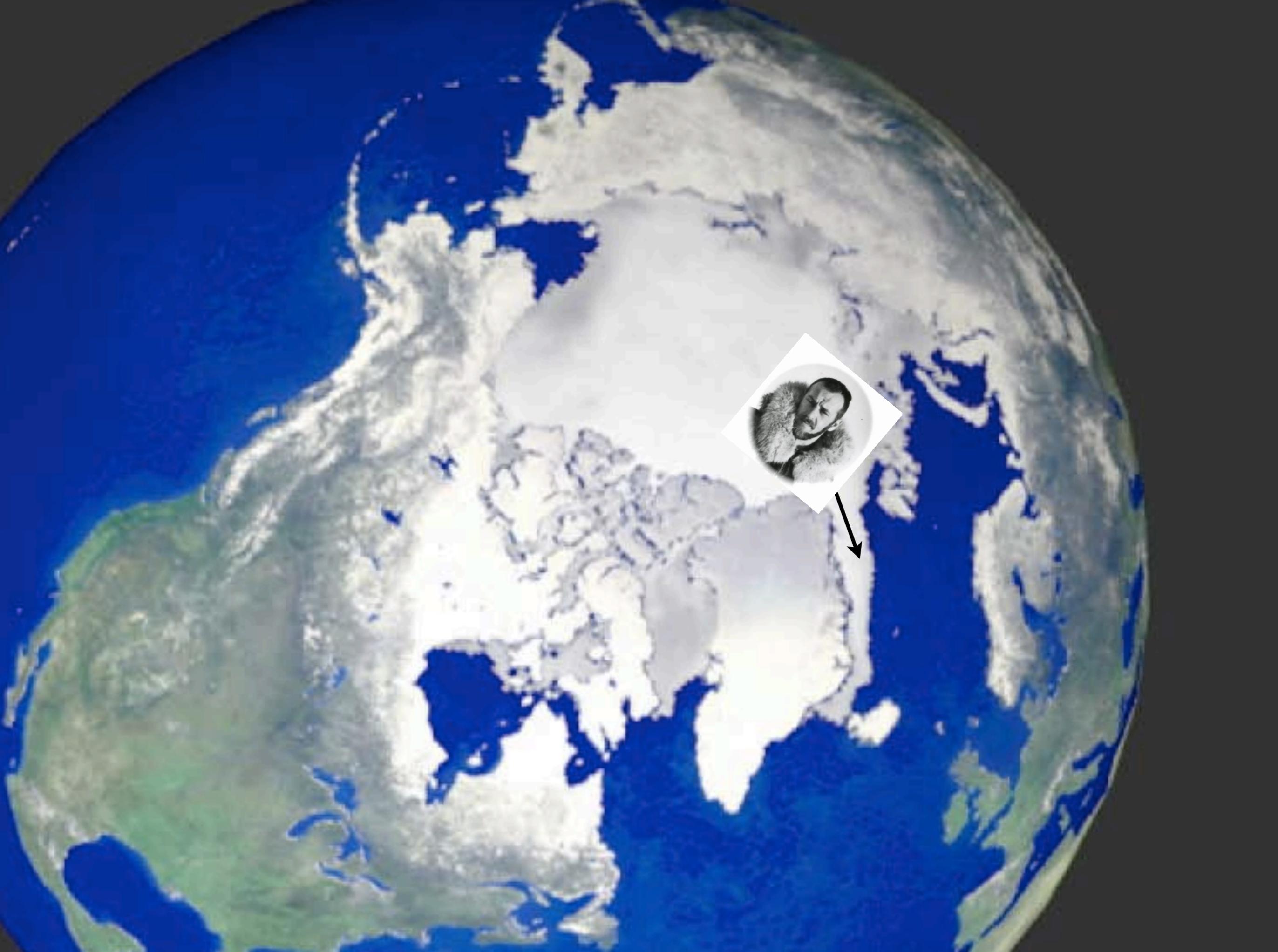


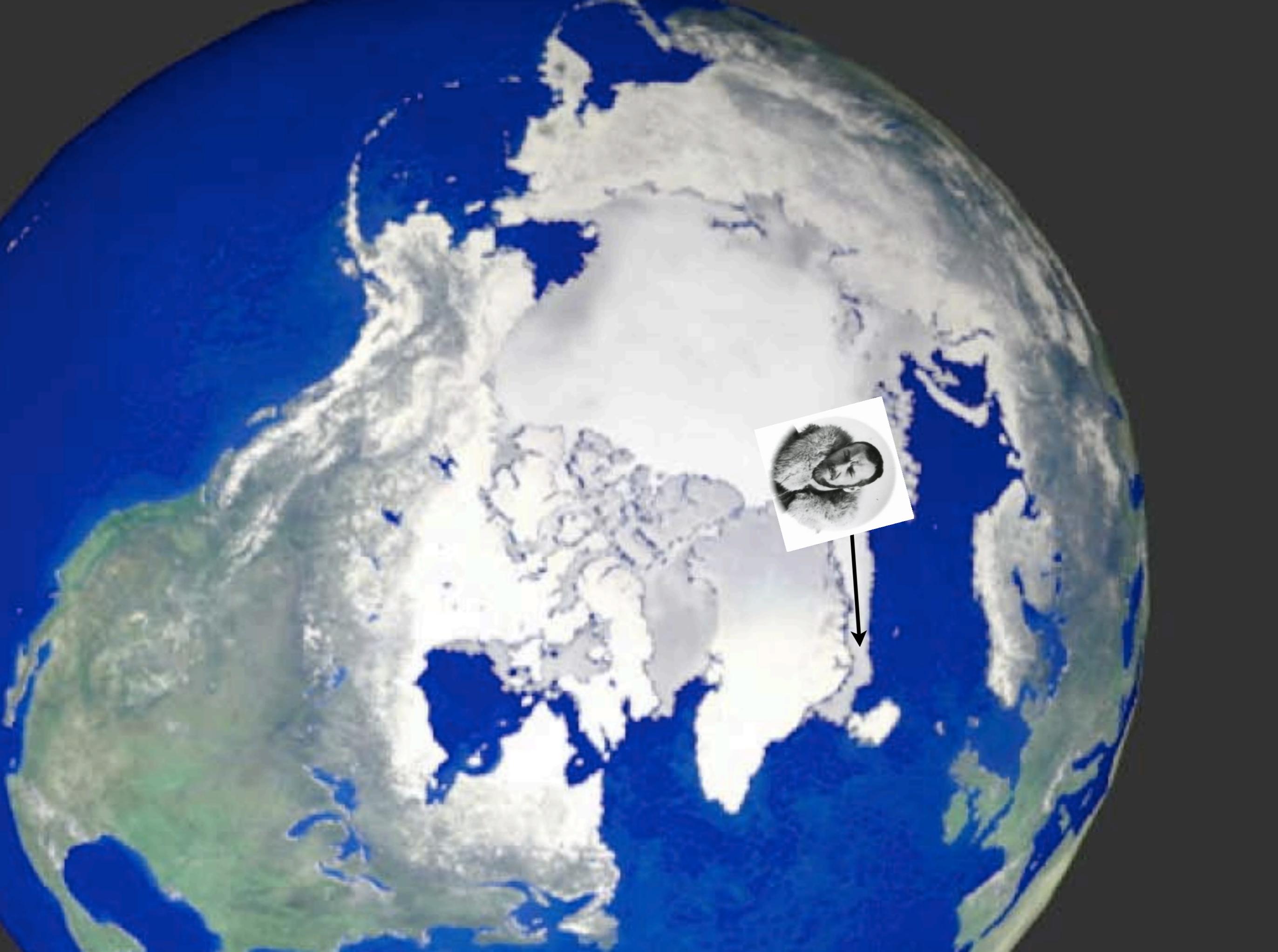










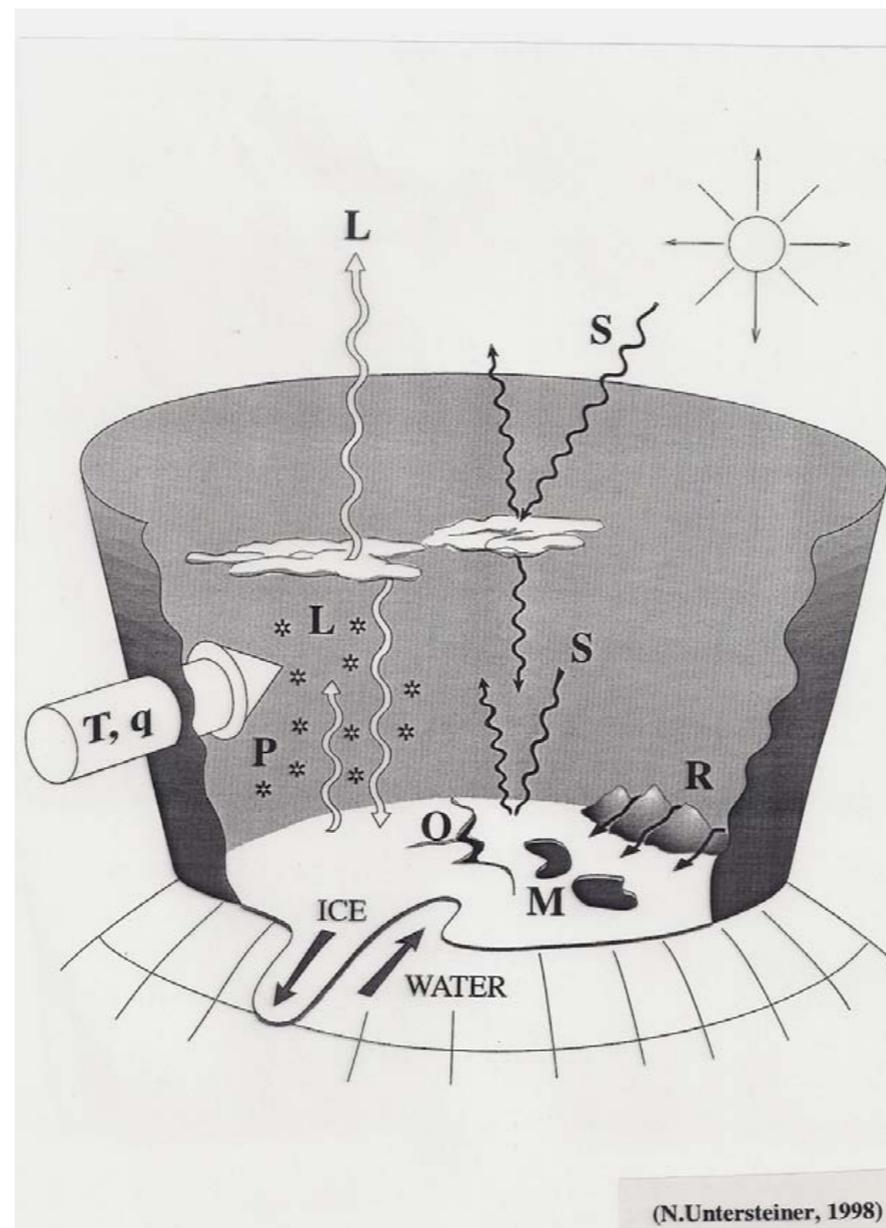


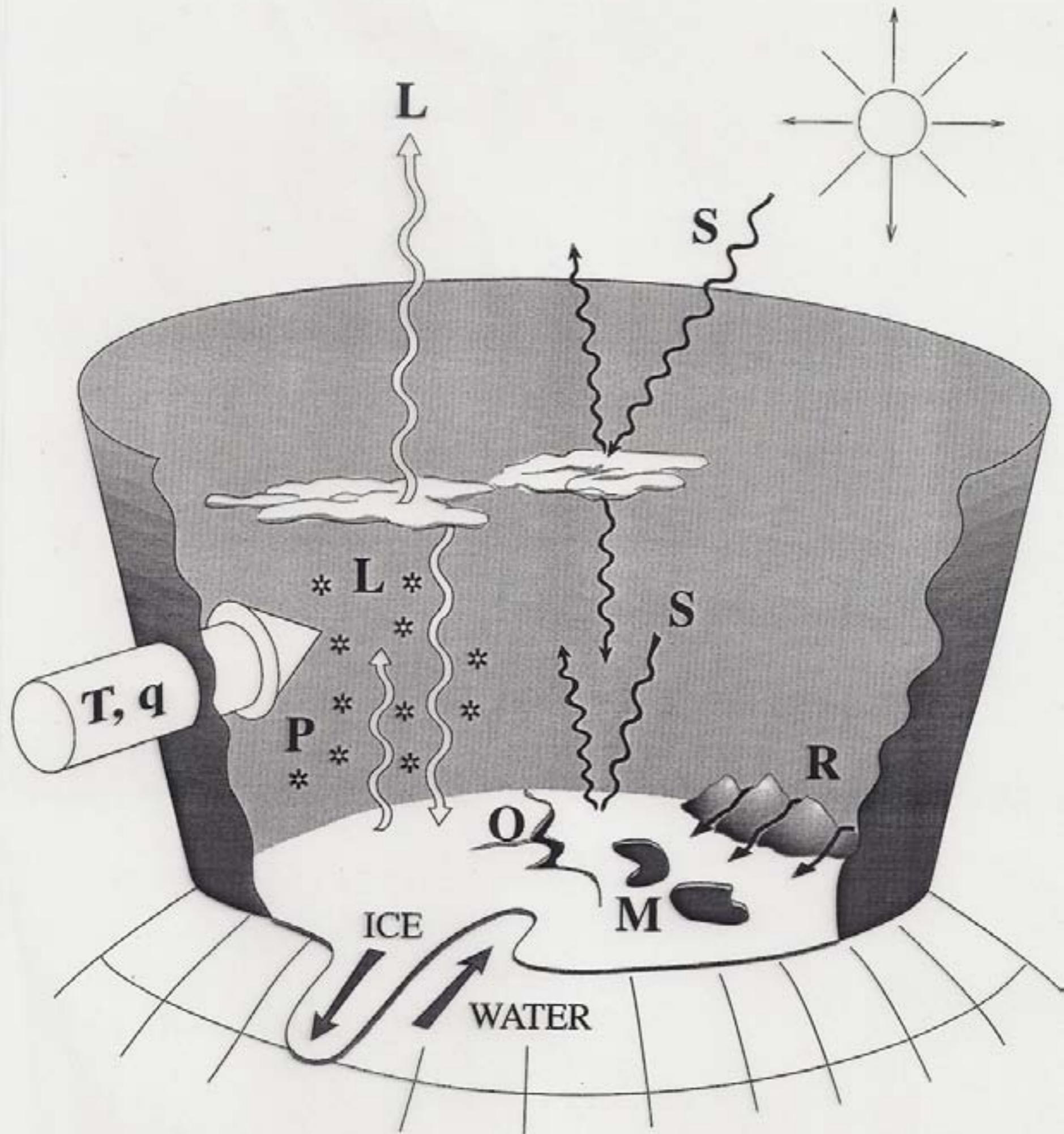
He floated on ice floes observin' non-stop.

How they freeze on the bottom and melt on top

How their whiteness can make global temperature drop

And the downward IR can turn them into slop.





On Norbert's expeditions they aimed to please  
With sep'rate his and hers fa-cil-i-ties  
When it got cold they drank anti-freeze  
And when the sun came out, they donned their water skis!





Once he went to Washington to serve a spell,  
Fixin' up the government and NOAA as well.  
With zero-based budgetin' for you and for me  
So all of us can have accounta bility  
Thanks to-



*from NOAA Archive*

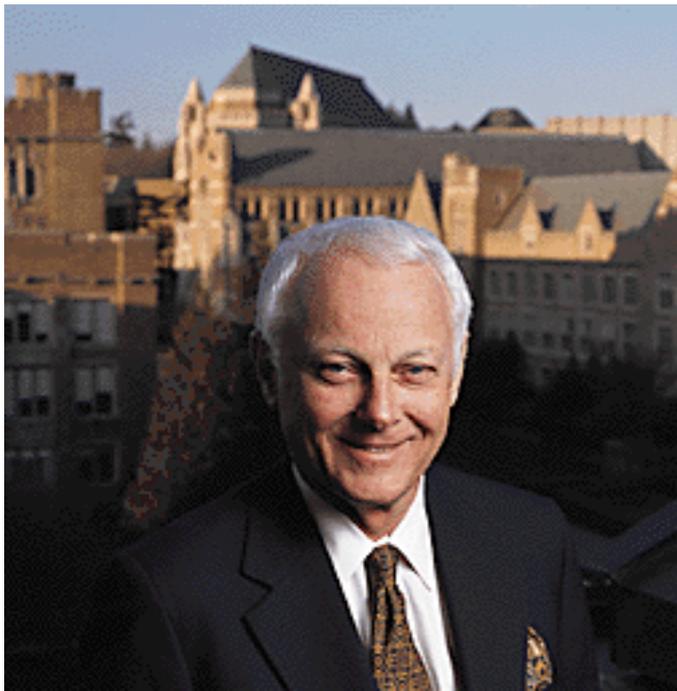
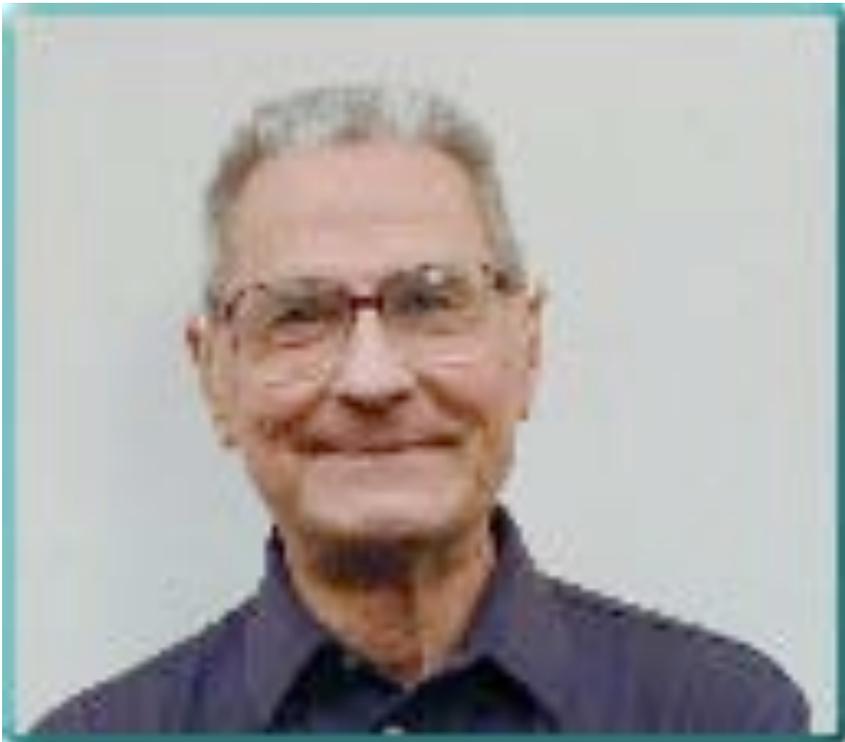


*When he came home his bureaucratin' done  
The search for dean of COFS had just begun.  
The Provost suggested that he should apply  
But somehow he ended up as chair of Atmos Sci.*



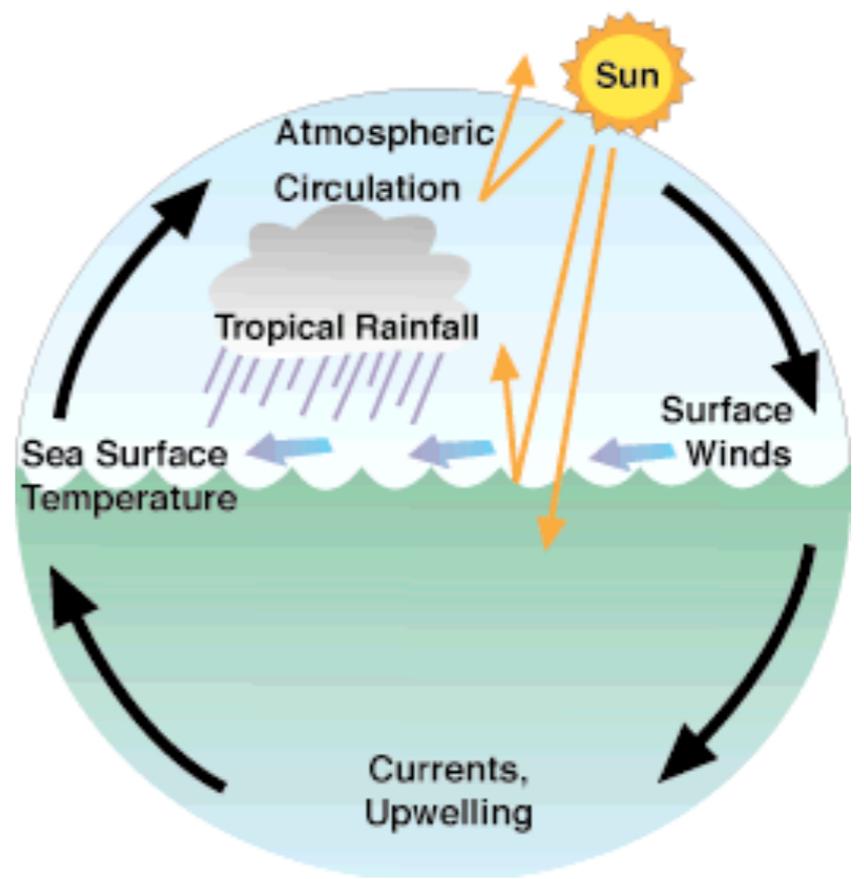
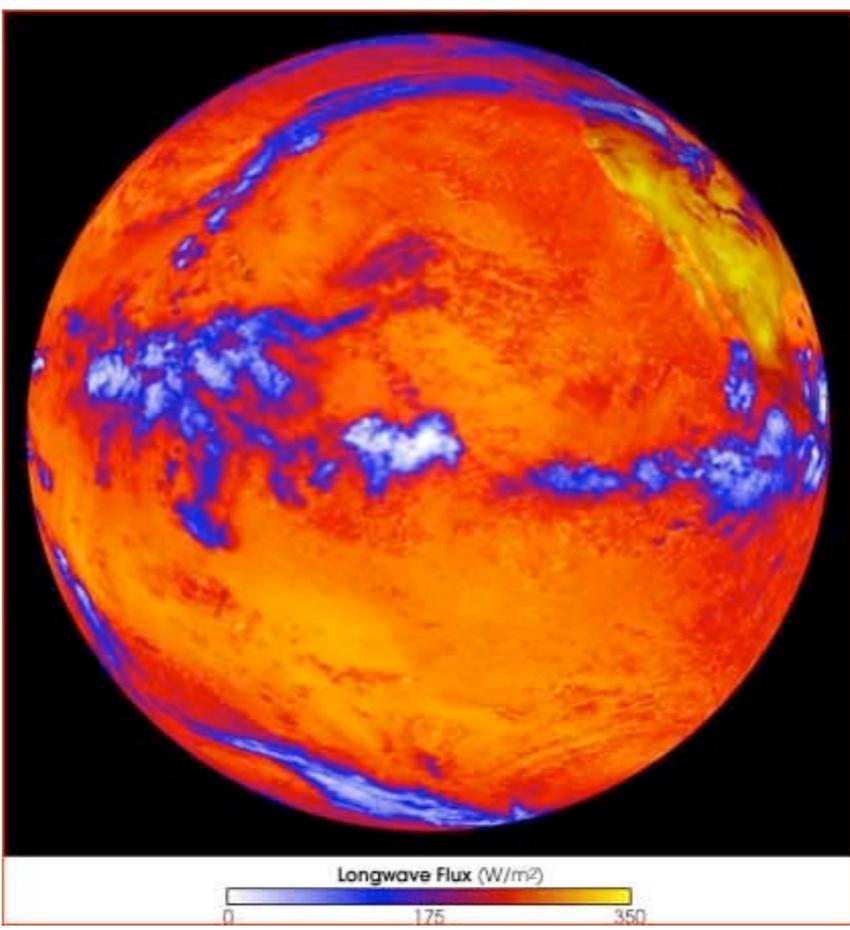
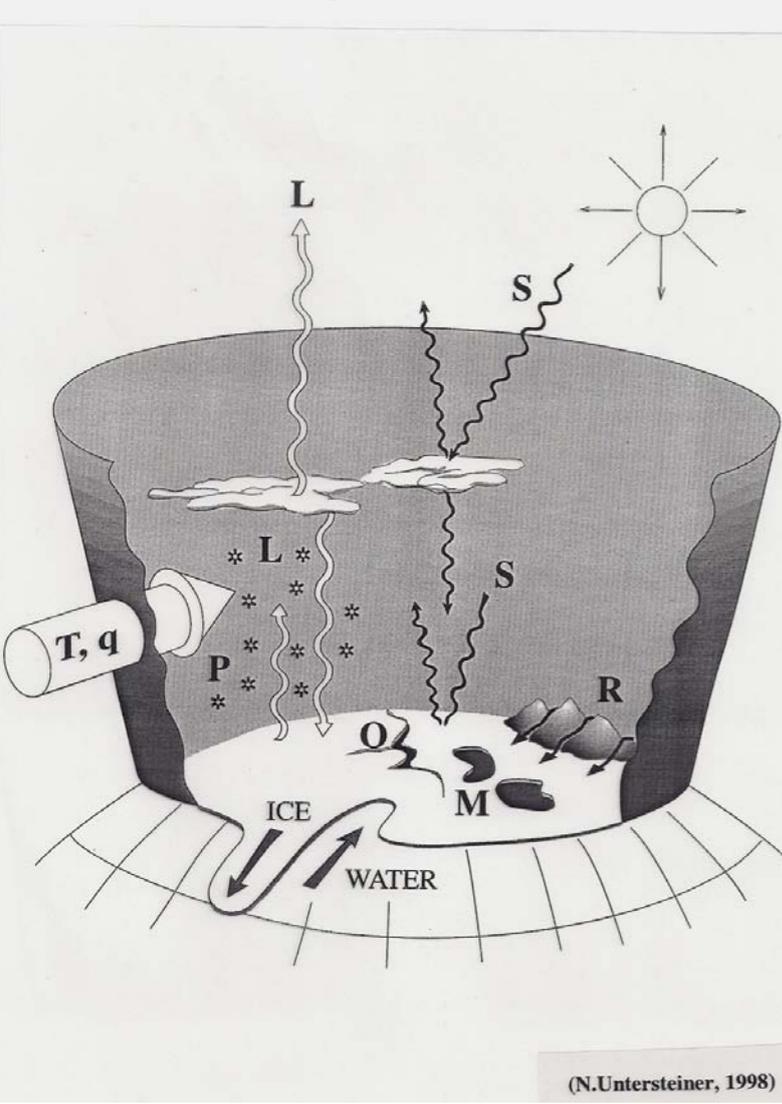


He was charmin' and persuasive with deans and such  
Impatient with bureaucracy: resisted its clutch.  
Ran faculty meetings with a hum'rous touch  
And when they were over he said "Thankyou very much!"

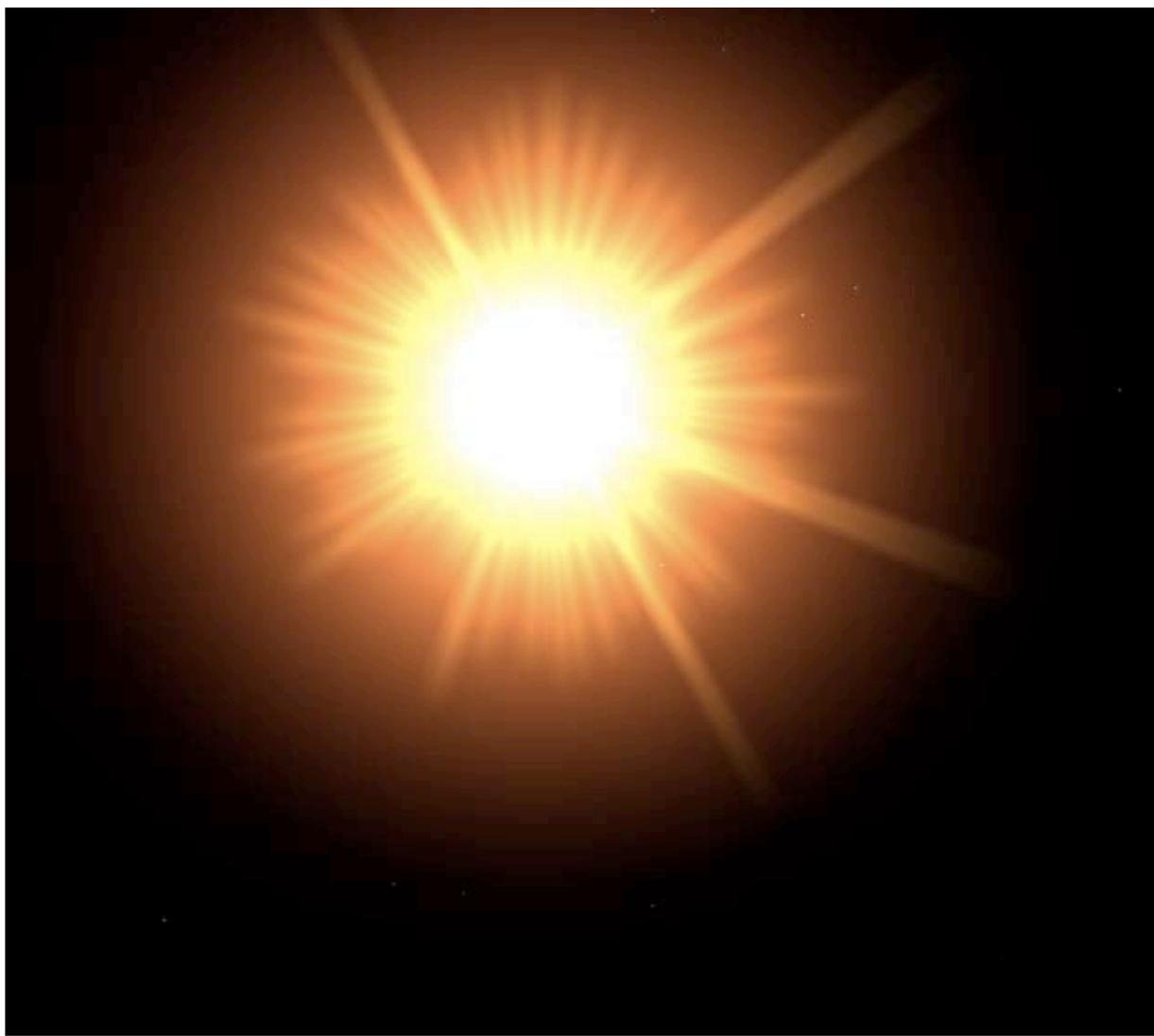
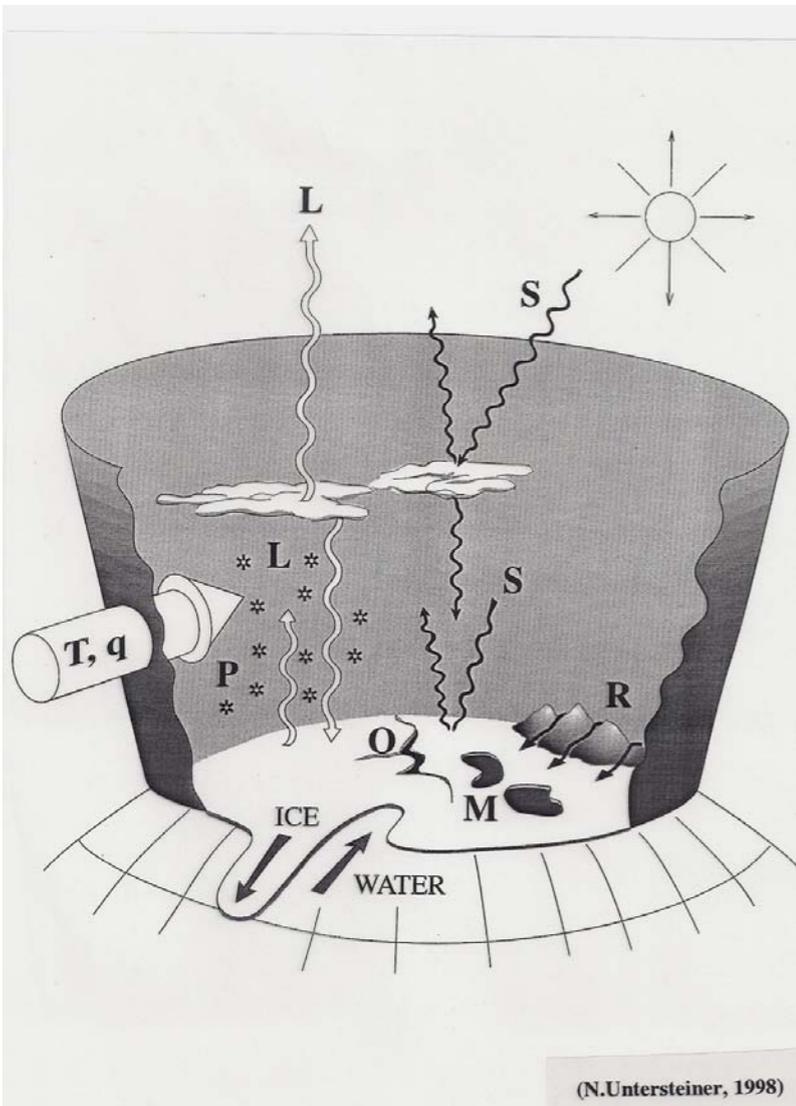




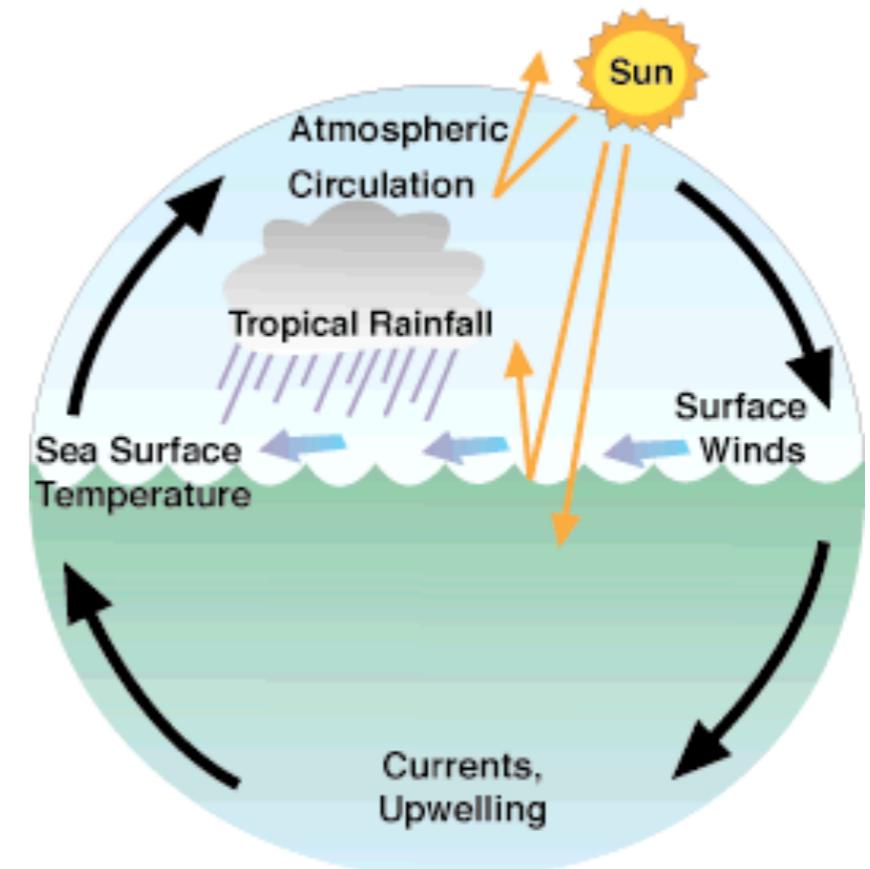
When Untersteiner lectured the students had fun  
Like In Atmospheric Sciences 1-0-1  
Where the cold from the ice and the heat from the sun  
Get together to make the atmosphere run.



Homework Assignment



# Homework Assignment



He gave a great Vice President some sound advice:  
"Declassify the data from under the ice,  
Put it together on one CD,  
And give it away to scientists like me!"



# NEWS

NATIONAL ACADEMY OF SCIENCES  
NATIONAL ACADEMY OF ENGINEERING  
INSTITUTE OF MEDICINE  
NATIONAL RESEARCH COUNCIL

F R O M   T H E   N A T I O N A L   A C A D E M I E S

Date: July 15, 2009

FOR IMMEDIATE RELEASE

ARCTIC IMAGES DERIVED FROM CLASSIFIED DATA SHOULD BE MADE PUBLIC TO HELP SCIENTISTS EXAMINE CLIMATE CHANGE AND IMPACTS OF DIMINISHING SEA ICE

WASHINGTON -- Hundreds of images derived from classified data that could be used to better understand rapid loss and transformation of Arctic sea ice should be immediately released and disseminated to the scientific research community, says a new report from the National Research Council. The committee that wrote the report emphasized that these Arctic images show detailed melting and freezing processes and also provide information at scales, locations, and time periods that are important for studying effects of climate change on sea ice and habitat -- data that are not available

He turned up in Alaska as the Chapman Chair  
Organizin' seminars and shootin' bar  
Deans and Directors valued his advice..  
And all the Fairbanks ladies said, "Norbert's very nice"  
They love..



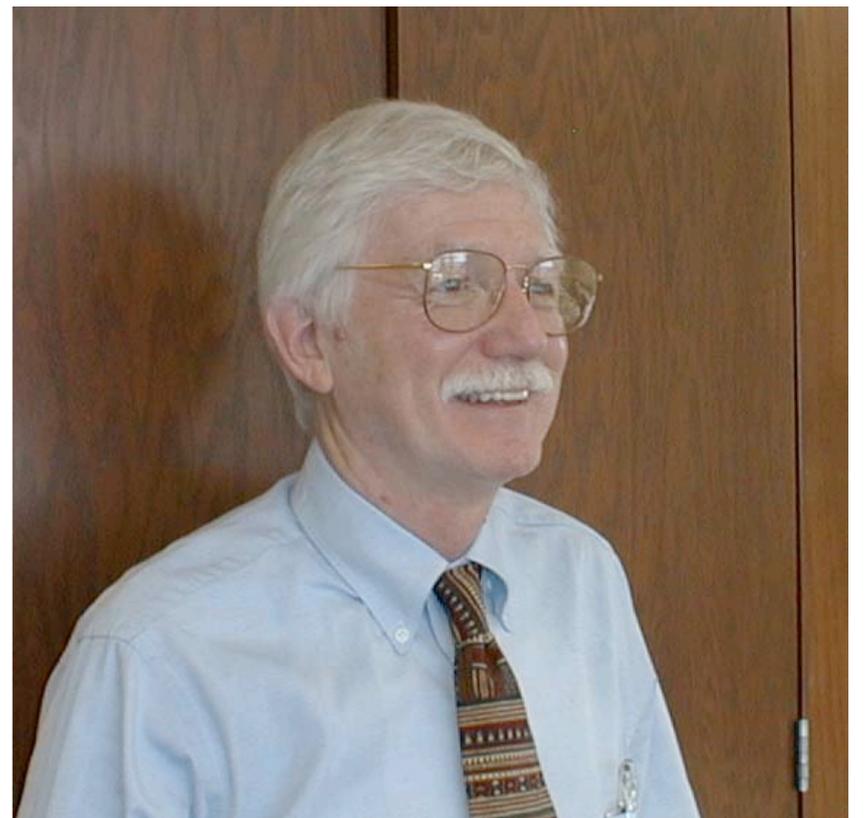


His department's biggest, and his department's best  
From Puget Sound to the Cascade crest  
He's ahead of us all, writin' the test  
Creatin' the legend of MIT West!





Now Nansen has his Bottle, and Scott has his Base.  
Sverdrup his unit; and North\* has his Face  
But ice islands melt without leavin' a trace,  
So what can we do to honor Norbert's place  
but sing--



100 Sv





# The Ice Rheology Blues



I got the ice rheology blues

It's crackin' right under my shoes

The ice is deformin', and it ain't global warmin'

But still I think it's bad news

The sea ice is wrenchin' its guts  
It's raftin' and ridgin' on top of our huts  
With all o' this stress our camp site's a mess  
Deformation can drive a man nuts

If there's just one thing I know

You don't want to pitch camp on an ice floe

In my tent it's gettin hotter; there's a crack of open water

I'd better find a boat to row

There's thaw holes openin' up almost everywhere  
I just saw another puddle right over there  
I don't manufacture this fear of a fracture  
But maybe I'm breathing too much polar air

Empty these pockets o' mine

'cept the one that is fillin' with brine

Everything that I need got dropped in a lead

'cept a bottle o' Thunderbird wine

So I just have to go with the floe  
For as long as the Arctic winds blow  
I'll be keepin' a date with the mouth of Fram Strait  
But it ain't such a bad way to go





Text of Fictitious Remarks by former Senator and Vice President Al Gore

*Al Gore impersonated by Wolfe Maykut*

# Fictitious

Ladies and Gentlemen,  
Fellow Nobel laureates,

And all of you who supported me during my presidential campaign back in 2000.

And all of you who came to see the premier of my new movie, *An Inconvenient Truth* back in 2006.

*(Like an orator)* I'm delighted to be here with you today to take part in celebrating the the flowering of Arctic research after the IGY and, in particular, the achievements of a great Arctic scientist, my friend and distinguished colleague, Norbert Untersteiner.

*(More relaxed)* I've known Norbert since 1992, back when I was still a senator from Tennessee. The cold war was just beginning to wind down then and it got me to thinking that a lot of the data that we and the Soviets had gathered over the years for surveillance purposes was no longer going to be of any strategic value, so perhaps it could be turned into a scientific legacy. I proposed this idea to CIA Director Robert Gates, the same Robert Gates as our current Secretary of Defense, and he agreed. Since a lot of that top secret data was taken aboard nuclear submarines cruising in the Arctic, it was clear that we needed to involve an expert in sea ice on the advisory committee for the project. I asked the CIA to identify the Number 1 expert on sea ice and who did they come up with but Norbert Untersteiner *(sung to Davy Crockett theme)*. And that was the beginning of what we call the Medea Project.

*(Addresses Norbert)* As a long term member of my advisory committee for Medea, Norbert, you taught me two great lessons. The first is the fundamental truth of the First Law of Thermodynamics. *(To audience)* Regardless of what they might say in Ripley's Believe it or not or on the Internet, or during time-outs at hockey games when they bring out the Zamboni machine, warm water does not freeze faster than cold water. *(Address Norbert again)* Norbert, Do you remember the day you taught me that lesson about the First Law? We were sitting in the hearings with all the secretaries and undersecretaries in attendance, and something you said piqued my curiosity and I asked you, "Norbert, would it be wrong to say that warm water freezes faster than cold water?" And I could see your face starting to get red and you shifted your weight and sat a little higher in your chair, and then you stuck your arm out and pointed at me *(point at Norbert, right arm straight, index finger extended)* and you practically yelled, "Mr. Vice President, if you said that you would be very, very wrong!" Everyone in the room was astonished. I could see the color draining out of Linda Zall's face. *(parenthetically to audience: Linda was the Medea project director and she was sitting next to Norbert at the time)* and the room suddenly became so quiet that you could have heard a pin drop. And in that extended silence, I was thinking to myself, "I haven't heard anyone talk to me like that since I was a student in Roger Revelle's class. I suddenly sensed the humor of the situation and I started to laugh out loud. And within a few seconds everyone in the room, including Linda Zall, was laughing hysterically. Man, that's one lesson I'll never forget.

*(to the audience)* The other great lesson I learned from Norbert is that if you want to succeed in this world, you have to get the women on your side. Tipper had been telling me this for years, but until I saw Norbert in action, I had no idea what a profound truth this is. ....Mind you, it doesn't always work. I found that out in the 2000 election when 54% of the women voted for me and... well... you know the rest of the story. But for Norbert it always seems to work. I still don't know how he does it.

*Fictitious*

Norbert has also helped me and the Medea project in a number of other ways. We learned early on that if you want to get the Russians to give you their data, you have to win their trust. You have to make friends with them, but that's not enough. You have to drink with them too. Well chugallugin' shot glasses of vodka was never my strong suit, but Norbert, when it came down to drinking vodka with the Russians, you never shirked your duty to your country. And we've got the data to prove it.

The other thing I want to thank you for is the day back in 1997 you came to the White House at my request and personally prepped me for the speech that I had to give about the Arctic for the National Geographic Society. Without your help, I might have misspoken about the First Law and gotten myself into political hot water so to speak.

*(To the audience)* Norbert charms the ladies, and he can also charm military satellites. In Medea we instituted a program that we called "global fiducials". We identified certain key locations like the top of Mt Kilimanjaro where we would take a set of high resolution photographs over an extended period of time to reveal how the climate is changing. By high resolution I mean finer than a gnat's eyebrow. Remember, these are military satellites. Initially the data would be classified, of course, but over the course of time, they would be degraded to, say 1 meter by 1 meter resolution, declassified, and released to the scientific community as a legacy. The satellites started taking these photos in the 1990s but one of the first things the Bush folks did when they took office in 2001 was to shut down the program. But for some reason that nobody understands, Norbert's satellites that were documenting the changes in the Arctic ice secretly refused to stop taking photos and they persisted through the eight years of the Bush Administration. In July of this year we released over a thousand of these remarkable photos and I included two of them on page 380 in my new book, entitled "Our Choice". *(Holds up his new book)*

*(Walks over to Norbert)* Norbert, I want you to have an autographed copy of my new book, and I'll treasure my copy of your new DVD. *(Shakes hands with Norbert , then address the audience )* Folks, I'm sorry I had to come late and leave early, but I'm on my way to Copenhagen to prepare for the global warming negotiations next month. *(Sounding like an orator again)* If we succeed, we're going to stop the sea ice from melting any further so that your children, and their children, and their childrens' children will be able to enjoy the privilege of freezing their buns off camping out in the Arctic just like Norbert and his buddies did. Wish me luck!

*Fictitious*



*Jennifer Francis  
Rutgers*

*Photo taken recently on  
an around the world  
cruise while passing  
through the Virgin Islands*



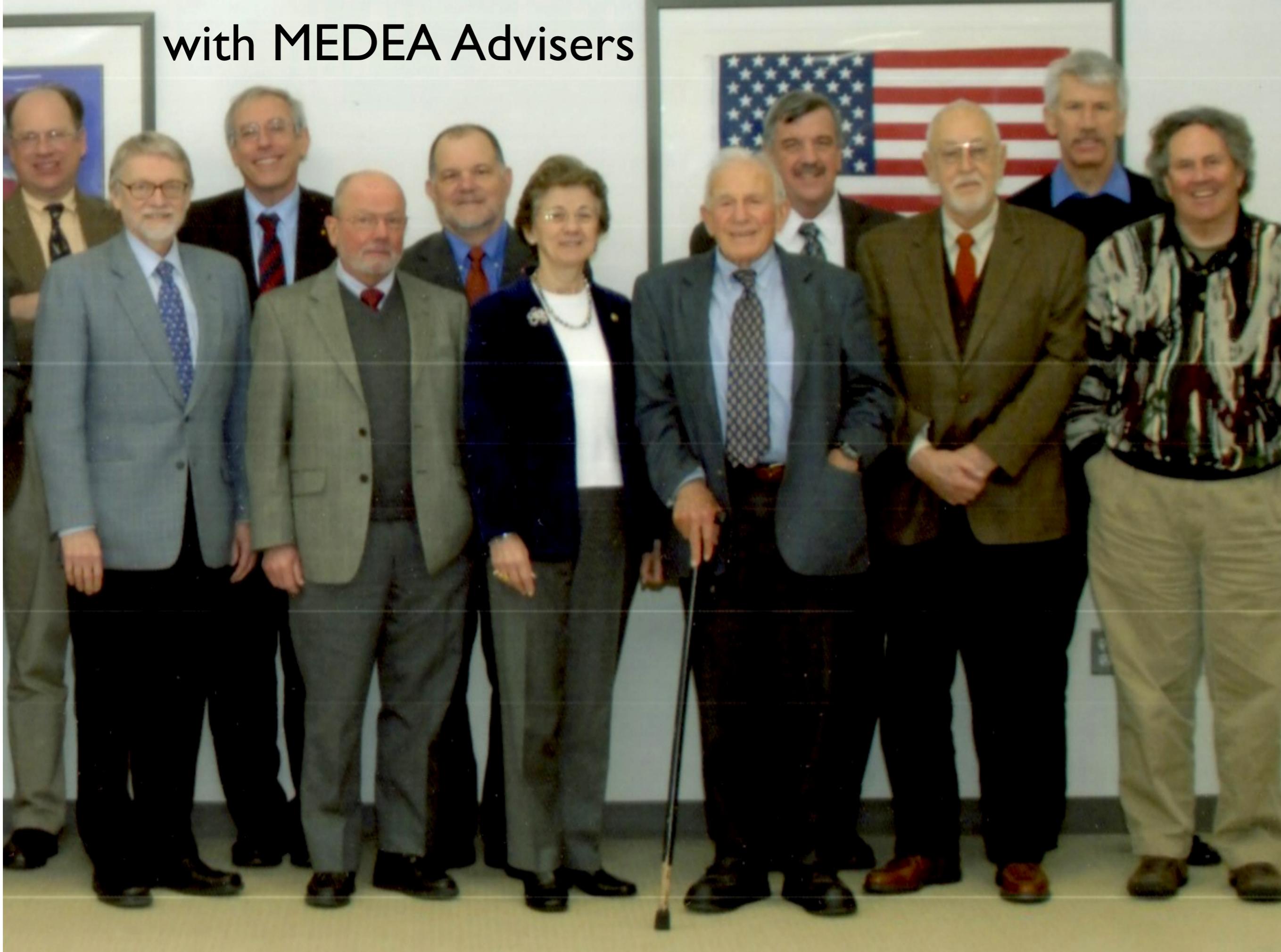


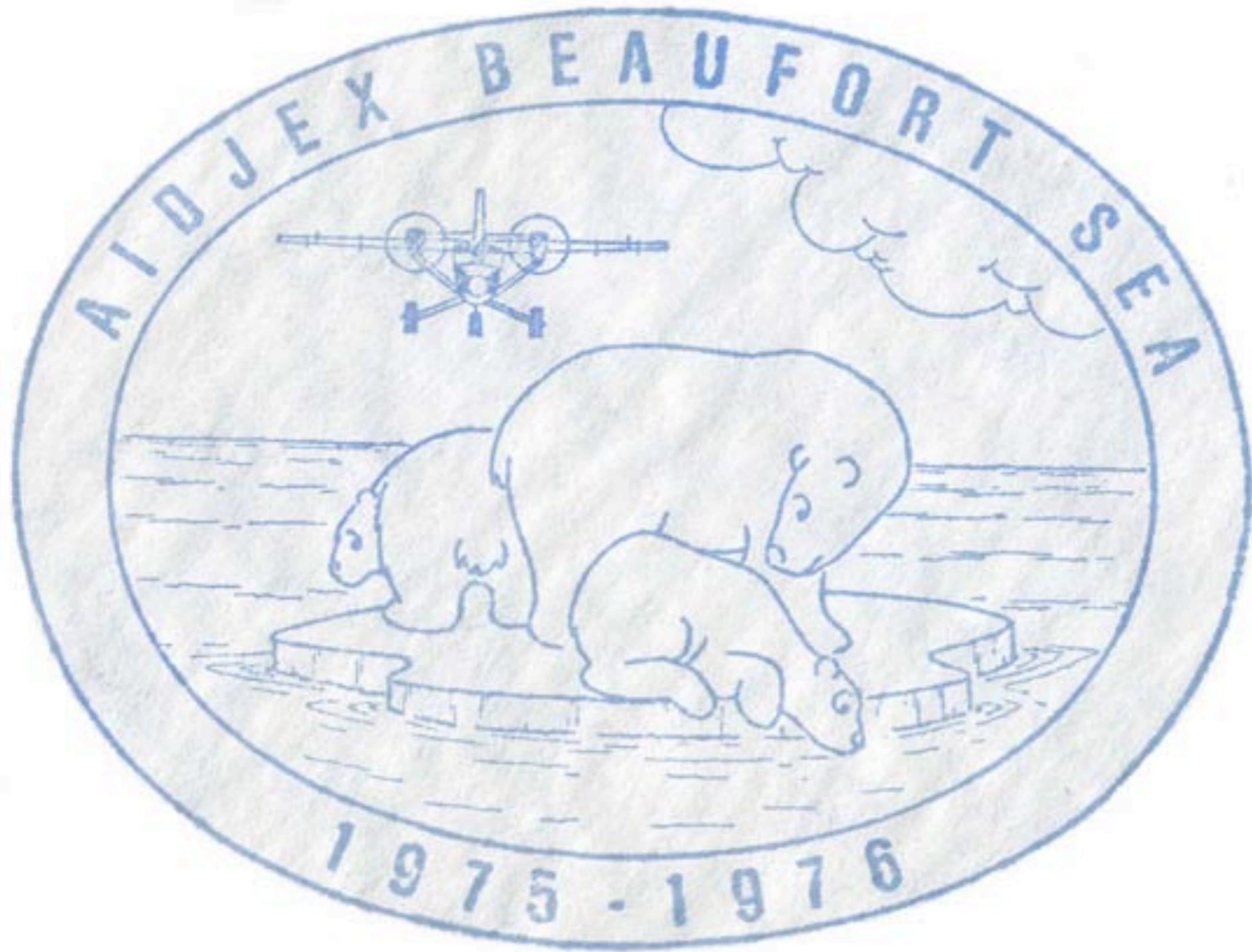
*Hajo Eiken, UAF*



Norbert with Hajo Eiken, 1994

with MEDEA Advisers







**AIDJEX camp, mentioned in Jim Baker's remarks**

Allaina Wallace

Ron Weaver

Florence Fetterer

Folks at NSIDC who were instrumental in producing and distributing Norbert's video





Norbert!



YOU



THANK



THANK

YOU

Norbert



