

A-1-74-AK

note: photos indexed on reverse side

DOWNFLIGHT

Barrow to Pt. Hope - April 30, 1974

Airspeed \approx 140 kts., Altitude 500'-1000'

<u>Photo No.</u>	
4-12 to 4-16	(9:45) Off Pt. Barrow
4-17	Looking towards Will Rogers/Wiley Post Monument, ice piles in toward shore.
4-18	Large pans beyond monument.
4-19	Open lead beyond refrozen lead.
4-20	(9:53) Shear (well within fast ice?) refrozen lead beyond, then open lead.
4-21	Typical ice conditions within fast zone.
4-22	(10:00) Liz C.
4-23	Ice off Liz C; no pressure ridge.
4-24	Same as 4-23.
4-25	Large smooth flat area; a long pressure ridge.
4-26	Piled ice along shore.
4-27 to 4-28	Many parallel pressure ridges.
4-29	(10:15) Shear ridge.
4-30	Shear ridge halfway between coast and open lead.
4-31	Large pile off Wainwright.
4-32	Refrozen lead off Wainwright
4-33	(10:22) Ridge 60° to coast.
4-34	Ice piles; refreezing lead.
4-35	Pan and piled ice.
4-36	Small refrozen lead.
4-37	(10:29) Small pans.
3-3	(10:34) Refreezing lead; Icy Cape.
3-4	Large ice pile.
3-5	Shear ridge.
3-6	(10:40) Abrupt change in ice conditions.
3-7 to 3-9	New ice. Re 14.00

- 3-10 Refrozen lead.
- 3-11 Looking toward Pt. Lay.
- 3-12 New ice off Pt. Lay.
- 3-13 Piled ice off Pt. Lay.
- 3-14 Pt. Lay.
- 3-15 Beach line just south of Pt. Lay.
- 3-16 Transition off Pt. Lay.
- 3-17 Transition to refrozen lead just south of Pt. Lay.
- 3-18 Small ridge in new ice.
- 3-19 Rafting in refrozen ice.
- 3-20 Refreezing lead.
- 3-21 Refreezing lead.
- 3-22 (11:07) Refreezing lead; rafting.
- 3-23 Refreezing lead; rafting.
- 3-24 (11:12) Ice piles near edge of stationary ice.
- 3-25 New ice piled into older sheet; 1000 ft. altitude.
- 3-26 to 3-27 Crack running down old refrozen lead.
- 3-28 Ice well off Cape Lisburne.
- 3-29 Rafted ice zone near Cape Lisburne.
- 3-30 Cape Lisburne.
- 3-31 Ice off Cape Lisburne.
- 3-32 Looking toward Pt. Hope.

Landed at Pt. Hope at 11:45.

UPFLIGHT

Pt. Hope to Barrow - April 30, 1974

Airspeed \approx 130 kts., Altitude 500'-1000'

Photo No.

- 2-12 Approaching Pt. Lay.
2-13 Pt. Lay.
2-14 North of Pt. Lay.
2-15 North of Pt. Lay.
2-16 North of Pt. Lay.
2-17 (3:02) Smooth ice next to shore.
2-18 (3:03) No obvious pressure ridge system; blocks pushed up on shore.
2-19 (3:04) Some hint of (grounded multi-year?) floes further out.
2-20 (3:05) Some piled ice quite close to shore.
2-21 (3:06) Just above shoreline
2-22 (3:07) Apparently some new ice.
2-23 (3:08) First year blocks on shore.
2-24 (3:09) Ice pushed into shore; no real ridge systems.
2-25 (3:10) Evidence of some offshore ridging.
2-26 (3:11) Large floes pushed up on beach.
2-27 (3:12) More floes on beach; ridge system much farther out.
2-28 (3:13) More of same.
2-29 (3:14:30) Icy Cape; large ice pile on horizon photographed in downflight.
2-30 (3:16) Point where big lead almost closes.
2-31 (3:17) No ridge system visible from shore out to lead.
2-32 (3:18) Same as 2-31.
2-33 (3:19) Small-sized pile along shore.
2-34 (3:20) Pile along shore getting larger, bears seaward.
2-35 (3:21:30) Pile on beach, then smooth ice.
2-36 (3:23) Smooth near shore.
2-37 (3:24) Small ridge at shore; smooth farther out.

- 5-2 (3:27) No big systems; pans with surrounding piles north of here.
- 5-3 (3:28) Same as 5-2.
- 5-4 (3:29) No ridge systems; what looks like multi-year floes piled up.
- 5-5 (3:30) Same as 5-4.
- 5-6 (3:31) No big ridges.
- 5-7 (3:32) Probably shear ridge about 1 mile off coast.
- 5-8 (3:33) Look for shear ridge farther out.
- 5-9 (3:34) Note beach is in bottom of picture.
- 5-10 (3:35) Ice piled up along shoreline south of Wainwright.
- 5-11 (3:36)
- 5-12 (3:36:20) Wainwright
- 5-13 (3:37) Piled ice; shear ridge offshore.
- 5-14 (3:37:30) Large ridge system.
- 5-15 (3:39) Ice pushed in; thick, first year floes perhaps rafted on top of others.
- 5-16 (3:40) Frozen shear ridge halfway out.
- 5-17 (3:41) Offshore shear ridge; hummock field.
- 5-18 (3:42) Large lead near shore, has removed some of hummock field.
- 5-19 (3:43) Lead near shore; many piles; rafting.
- 5-20 (3:44) Same as 5-19 (look for new ice).
- 5-21 (3:45) Hummock field near shore.
- 5-22 (3:46) Some very smooth ice near shore; ridges farther out.
- 5-23 (3:47) Smooth near shore; piles farther out.
- 5-24 (3:48) First year floes stranded well beyond beach.
- 5-25 (3:49) Turning at Pt. Franklin.
- 5-26 (3:50) Near Seashore Islands, entering Peard Bay.
- 5-27 (3:51) Over very smooth ice.
- 5-28 (3:52) Ridge in foreground in smooth ice; perhaps plane 1 mile from land.
- 5-29 (3:54) Small ridge in foreground is very long and is actually ice pile along beach.
- (3:55) Over Liz C (no photo).
- 5-30 (3:56) Long beach ridge; relatively smooth ice beyond.
- 5-31 (3:57) Looking ahead of plane.

- 5-32 (3:58) Cliff in foreground under beach.
- 5-33 (4:00) No indication of "shore fast" ice in this area at least as defined by large ridge, unless it is that flat ice extending out to those floes and the floes are grounded.
- 5-34 (4:02) Cliff in foreground.
- 5-35 (4:04) Looking forward of airplane; note shear line in foreground.
- 5-36 (4:05) Looking to side; hummock field.
- 5-37 (4:06:30) Ice pile part of shear system in 5-35; beach just below plane.

- 6-2 (4:11) Barrow in sight.
- 6-3 (4:12:15) Note large floating ridges.
- 6-4 (4:13) Large shear system south of Barrow.
- 6-5 (4:14) Same as 6-4.
- 6-6 Barrow
- 6-7 to 6-37 Series off shore Barrow.

6-23 Good example of shearlne for paper