

DEPARTMENT OF THE INTERIOR  
UNITED STATES GEOLOGICAL SURVEY

BEAUFORT

EXPLANATION

DIRECTION OF SINGLE PALEOCURRENT MEASUREMENTS

- Kayak Shale
- Kekiktuk Conglomerate
- Basal sandstone member, Kanayut Conglomerate
- Hunt Fork Shale
- Beaucoup Formation\*

\*The Beaucoup Formation is early Late Devonian and is not part of the Endicott Group

VECTOR MEAN, STANDARD DEVIATION, AND NUMBER OF MEASUREMENTS FOR LOCALITIES WITH MORE THAN FOUR MEASUREMENTS

- Kayak Shale
- Kekiktuk Conglomerate
- Hunt Fork Shale and basal sandstone member, Kanayut Conglomerate

KEKIKTUK CONGLOMERATE

**SUMMARY DIAGRAMS**

HUNT FORK SHALE	BASAL SANDSTONE MEMBER, KANAYUT CONGLOMERATE	KEKIKTUK CONGLOMERATE	KAYAK SHALE
10 MEASUREMENTS	48 MEASUREMENTS	33 MEASUREMENTS	18 MEASUREMENTS
10 MEASUREMENTS	48 MEASUREMENTS	33 MEASUREMENTS	18 MEASUREMENTS

ROSE DIAGRAMS SHOWING DISTRIBUTION OF PALEOCURRENT DIRECTIONS FROM THE VARIOUS UNITS. Solid pattern represents paleocurrents giving direction; open pattern represents paleocurrents giving sense but not direction.

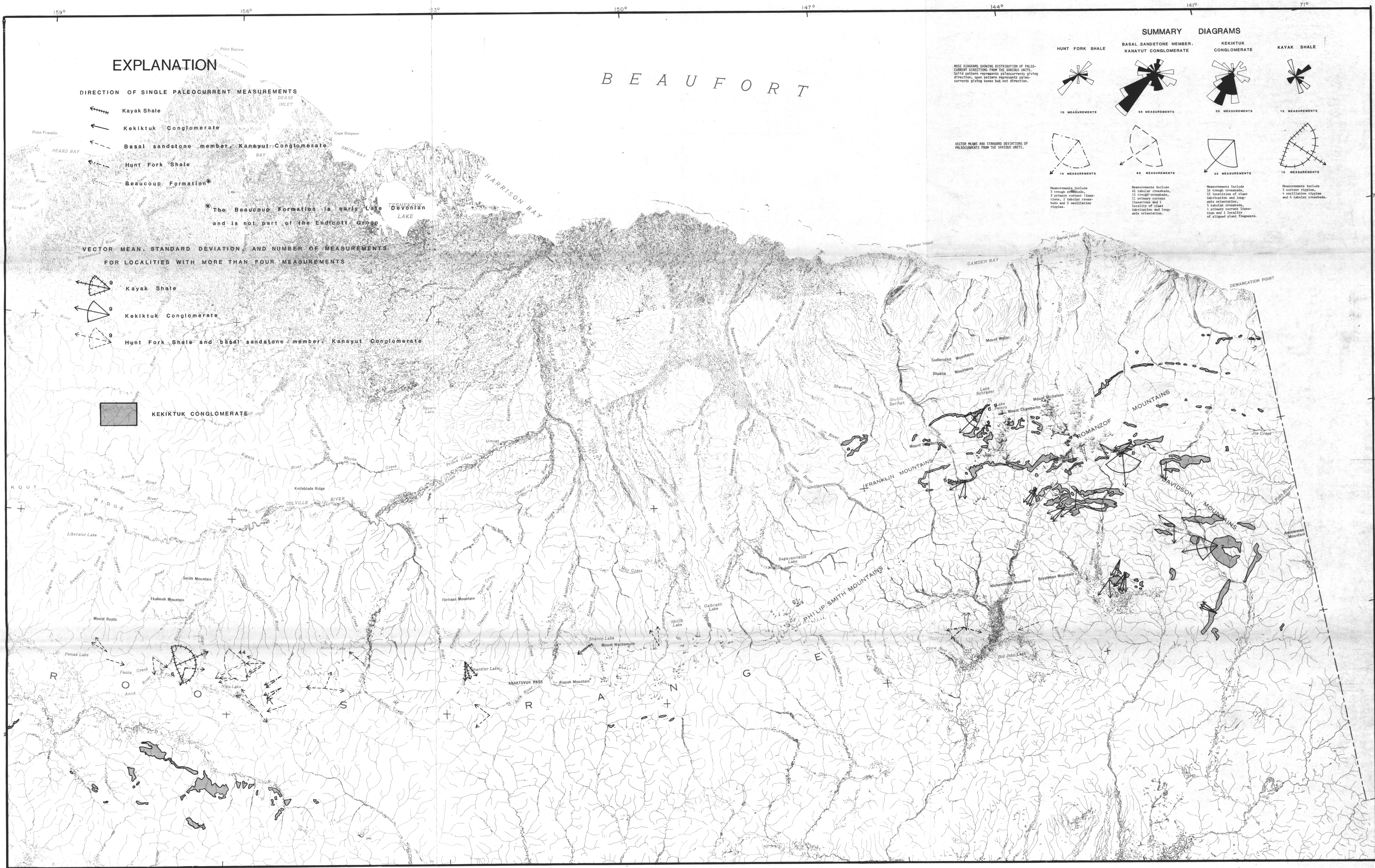
VECTOR MEANS AND STANDARD DEVIATIONS OF PALEOCURRENTS FROM THE VARIOUS UNITS.

Measurements include:  
 1 rough crossbeds,  
 3 primary current lineations,  
 2 channel crossbeds and 2 oscillation ripple.

Measurements include:  
 15 channel crossbeds,  
 13 trough crossbeds,  
 11 primary current lineations and 8 oscillation ripple.

Measurements include:  
 3 current ripple,  
 12 localities of clast orientation and lower bed crossbeds.

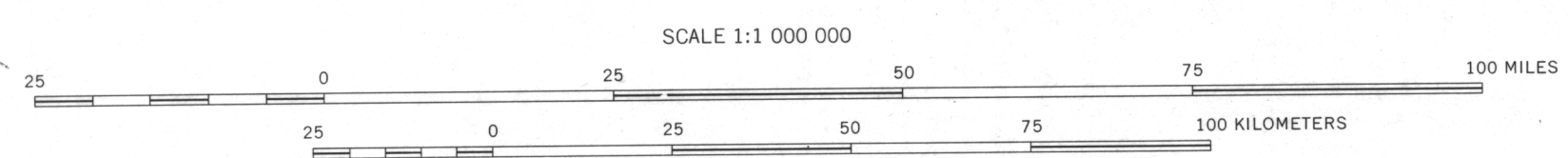
Measurements include:  
 3 current ripple,  
 4 oscillation ripple and 1 channel crossbed.



Geology compiled from: Reiser, Brosge, Dutro and Detterman, 1971 and 1974; Brosge, Reiser, Dutro and Detterman, 1976; Brosge and Reiser 1964, 1969 and 1971; Nelson and Grybeck, 1980; Mayfield and Tailleux, 1978; and unpublished mapping by the authors and H. N. Reiser in the Arctic quadrangle.

SHEET 2: HUNT FORK SHALE, BASAL SANDSTONE MEMBER OF THE KANAYUT CONGLOMERATE, KEKIKTUK CONGLOMERATE, AND KAYAK SHALE

Base map from U.S.G.S. Alaska topographic series, 1956



PALEOCURRENT MAPS FOR THE UPPER DEVONIAN AND LOWER MISSISSIPPIAN ENDICOTT GROUP, BROOKS RANGE, ALASKA

BY T. H. NILSEN, T. E. MOORE, AND W. P. BROSGÉ  
1980

This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards and nomenclature.