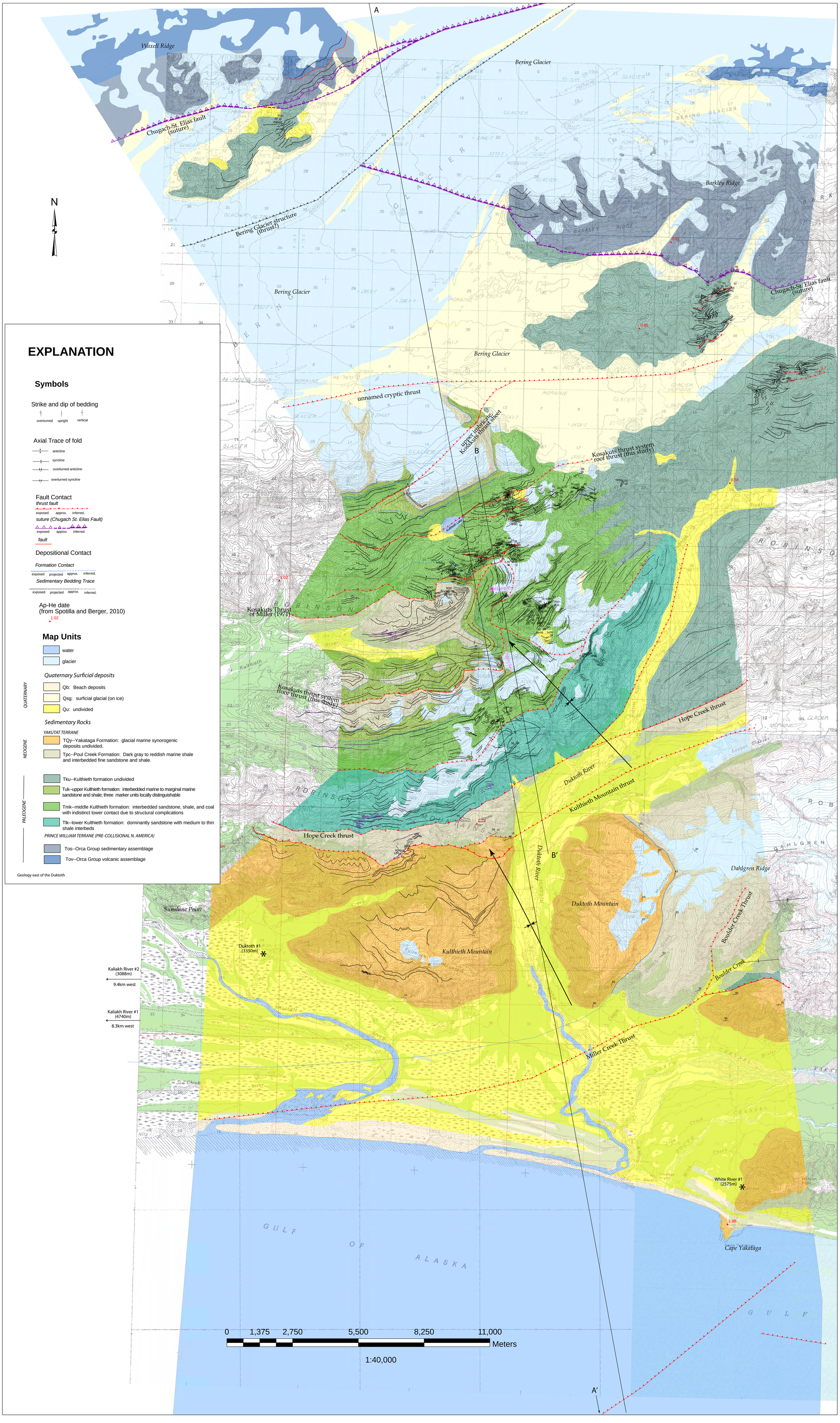
Waxell Ridge
Bering Glacier
Chugach-St. Elias fault (suture)
Barkley Ridge
Bering Glacier structure (thrust?)
Bering Glacier
Bering Glacier
unnamed cryptic thrust
upper imbricate Kosakuts thrust sheet
Kosakuts thrust system roof thrust (this study)
Kosakuts Thrust of Miller (1971)
Kosakuts thrust system floor thrust (this study)
Hope Creek thrust
Duktoth River
Kulthieth Mountain thrust
Hope Creek thrust
Dahlgren Ridge
Duktoth Mountain
Boulder Creek Thrust
Boulder Creek
Sunshine Point
Duktoth #1 (3350m)
Kulthieth Mountain
Kaliakh River #2 (3088m)
9.4km west
Kaliakh River #1 (4740m)
8.3km west
Miller Creek Thrust
White River #1 (2575m)
Cape Yakataga
GULF OF ALASKA
GULF
N
A
A′
B
B′
0 1,375 2,750 5,500 8,250 11,000
Meters
1:40,000
EXPLANATION
Symbols
Strike and dip of bedding
overturned upright vertical
Axial Trace of fold
anticline
syncline
overturned anticline
overturned syncline
Fault Contact
thrust fault
exposed approx. inferred.
suture (Chugach St. Elias Fault)
exposed approx. inferred.
fault
Depositional Contact
Formation Contact
exposed projected approx. inferred.
Sedimentary Bedding Trace
exposed projected approx. inferred.
Ap-He date (from Spotilla and Berger, 2010)
1.02
Map Units
water
glacier
QUATERNARY
Quaternary Surficial deposits
Qb: Beach deposits
Qsg: surficial glacial (on ice)
Qu: undivided
NEOGENE
Sedimentary Rocks
YAKUTAT TERRANE
TQy--Yakataga Formation: glacial marine synorogenic deposits undivided.
Tpc--Poul Creek Formation: Dark gray to reddish marine shale and interbedded fine sandstone and shale.
PALEOGENE
Tku--Kulthieth formation undivided
Tuk--upper Kulthieth formation: interbedded marine to marginal marine sandstone and shale; three marker units locally distinguishable
Tmk--middle Kulthieth formation: interbedded sandstone, shale, and coal with indistinct lower contact due to structural complications
Tlk--lower Kulthieth formation: dominantly sandstone with medium to thin shale interbeds
PRINCE WILLIAM TERRANE (PRE-COLLISIONAL N. AMERICA)
Tos--Orca Group sedimentary assemblage
Tov--Orca Group volcanic assemblage
Geology east of the Duktoth