OTUK CREEK, ALASKA

STRATIGRAPHIC SECTION

LAT. 68° 32' 12" N
LONG. 155° 43' 18" W

STRATOTYPE OF THE OTUK FORMATION
SECTION OVERTURNED

Measured with Jacob Staff, June 1983
by Dirk A. Bodnar and
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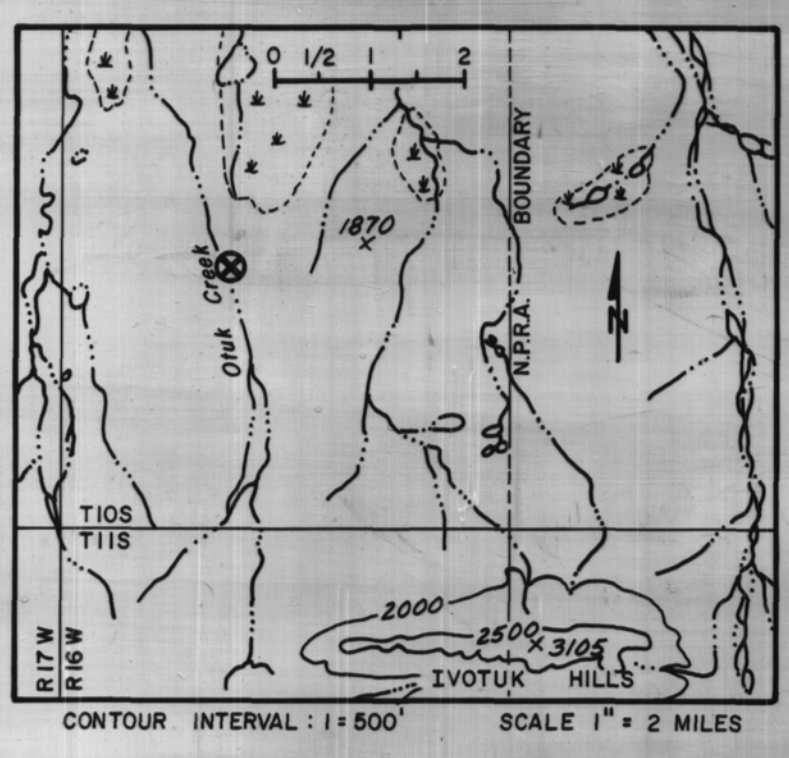
LEGEND

- Radiolaria
- Foraminifera
- Brachiopods
- Pelecypods
- Orthoconic Nautiloids
- Limestone
- Silicified Limestone (very cherty)
- Shale
- Limestone Nodules
- Ostracodes
- Conodonts
- Ammonites
- Belemnites
- Trace Fossils
- Siltstone, Dolomitic Siltstone
- Bedded Chert
- Fossiliferous
- Cherty Nodules



CONTOUR INTERVAL : 1 = 500' SCALE 1" = 2 MILES

VERTICAL SCALE : 1 inch = 4 meters

SERIES	STAGE	FORMATION	MEMBER	Cumulative Thickness (Meters)	GRAPHIC COLUMN	SAMPLE NO.	FOSSILS	LITHOLOGY DESCRIPTION
								Top of section at base of bluff, covered by talus.
LOWER-MIDDLE JURASSIC	SINEMURIAN-BAJOCIAN	OTUK FORMATION	BLANKENSHIP LIMESTONE			83B050, 51		Light gray and tan weathering limestone interbedded with fine grained gray calcarenites. Calcarenites lenticular, bedding thickens upward in the interval. Pelecypod fragments on some bedding planes
						83B049, 83B048, 83B047		
						83B046, UA-2098		Black calcareous shale with finely laminated limestone, black chert and a calcarenite interbedded. Shale is fossiliferous and very limy near base (Otopiria).
				70				Black non-calcareous shale. Some beds are fissile weathering and some are thin blocky weathering beds.
						83B043, 83B042		
				65				Cover, black shale rubble.
						83B041		Black cherty shale.
						UA-2097		Cover, black shale rubble. Brownish gray very platy calcareous shale. Weathers in plates that reach .4 m square. Fossiliferous (belemites). A distinctive marker bed in the Blankenship Member.
				60				Black fissile non-calcareous shale with minor black chert interbeds and a few horizons of black pyritic, cherty concretions (phosphate?).
						83B037, 83B036, 83B034		
				55		83B035, 83B033		Buff weathering thinly bedded limestone and interbedded black calcareous shale. Limestone beds become thicker towards the middle of the interval from the top down & bottom up. One lenticular calcarenite bed with cross-laminations and a possible slump structure.
				50				Light gray weathering platy limestone and thin calcareous black shale interbeds. Some limestone beds are silicified and weather banded buff and black. Limestone fetid fine-grained. A few lenticular calcarenite beds with ripups, and normal grading. Possibly a small slump structure at the top of interval. Wispy lamination common.
								Gray limestone bed with laminated base and normally graded top.
								Gray calcareous fissile shale with a few black chert beds. Limestone beds from here up section weather light gray.
				45		83B032, 83B031		Buff weathering fine-grained gray limestone (95%) with minor interbedded calcareous gray and black shales. Interbeds are fossiliferous (Monotis). Top of interval more platy than massive central portion. Limestone beds from here down section weather orange tan.
						UA-2096, UA-2095		
				40		83B028		Cylically interbedded tan weathering limestone with black calcareous shale. Some greenish-gray shale at top of black shale interbeds. Limestone and shale beds become thinner moving up the interval in cycles on the scale of 1 meter thick.
				35		83B026		
						UA-2094, UA-2093		Tan weathering limestone interbedded with thinner black laminated silicified limestone and papery black shale. Limestone fine-grained gray when fresh. Aluminum tag attached to thick limestone bed at 35 meters.
UPPER TRIASSIC	NORIAN			30		83B023, 83B022, 83B021		Black chert with minor interbedded black shale.
				25		83B020		Gray fetid limestone interbedded with black calcareous shale and gray chert. More limestone toward the top of interval and more chert near the bottom.
						83B019		Thickly bedded orange-tan weathering limestone with black chert and shale interbedded in center of interval. Limestone shows some cross-lamination.
				20				Black and buff banded silicified limestone and interbedded fossiliferous calcareous black shale.
						83B018		
						83B017		Black chert interbedded with calcareous black shale. Fossiliferous on bedding planes. More cherts near top of interval.
				15		83B016, 83B015, UA-2092, 83B014, 83B013		Black fossiliferous calcareous shale with interbeds of black chert and gray cross-laminated calcarenite (Halobia). Calcarenite weathers tan and is thinly bedded. Poorly preserved pelecypods in shale. One lenticular calcarenite bed at the top of interval.
			CHERT	10		UA-2091		
						83B09		Black sooty non-calcareous shale with interbeds of black chert. More chert near top and base of the interval.
	CARNIAN			5		UA-2090		
						83B07, UA-2089, 83B05, 83B04		Orange weathering black dolomite bed.
								Black non-calcareous shale.
?	?	?	?	0		83B03		
								Base of section, moss cover at top of bluff.

Strike N 77° W
Dip 27° N