EXPLANATION

LITHOLOGY

Sandstone
Siltstone
Mudstone and claystone
Coal
Conglomerate
Conglomeratic sandstone
Limestone
Limy sandstone
Silty sandstone
Covered section
Partially covered section
Carbonaceous siltstone and carbonaceous shale

SEDIMENTARY STRUCTURES

Ripple lamination
Climbing ripple lamination
Trough cross-stratification
Hummocky cross-stratification
Planar cross-stratification
Lateral-accretion bedding
Horizontal lamination

INTERNAL CHARACTERISTICS

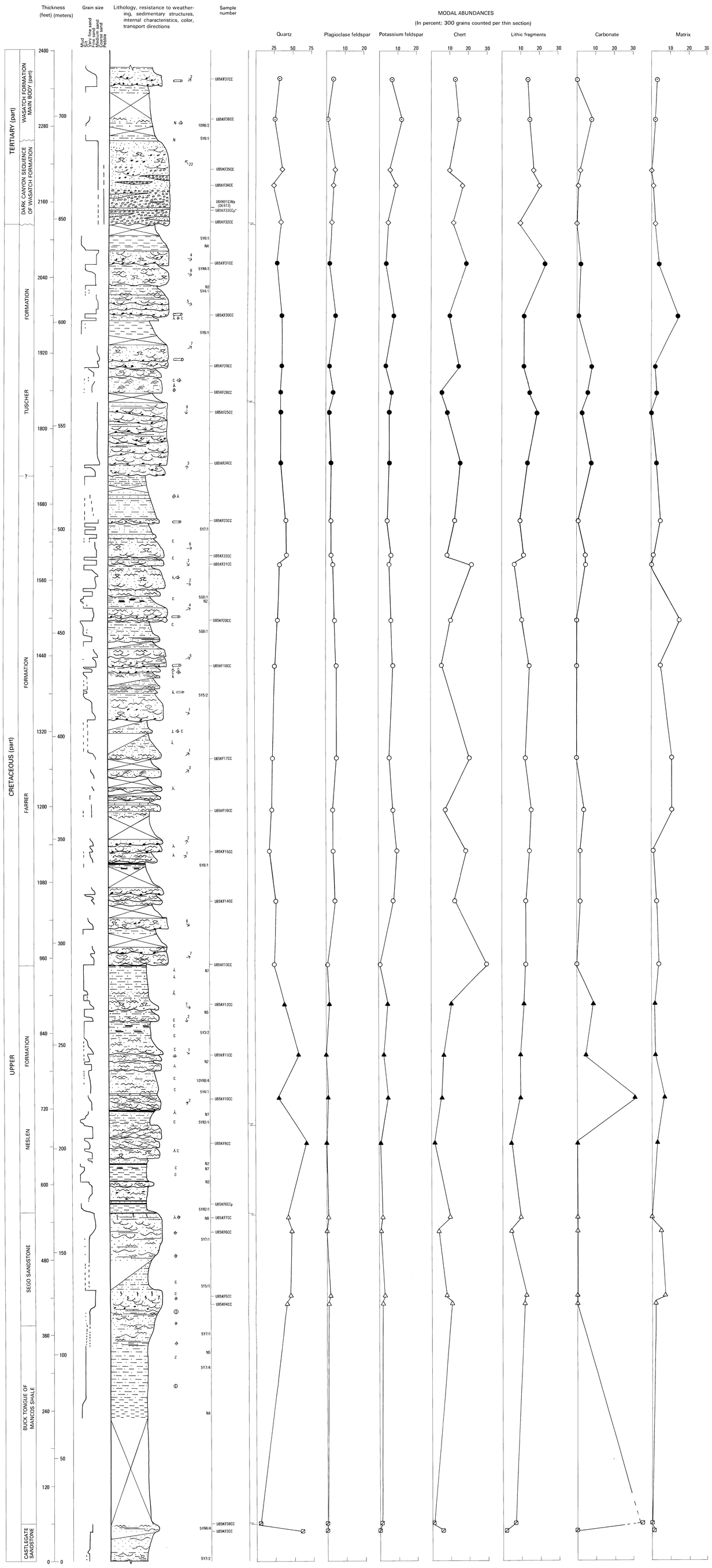
Contorted bedding
Bioturbation
Burrows
Root casts
Rip-up clasts
Leaf impressions and fossils
Wood impressions and fragments
C Carbonaceous material
Bivalve fragments
Gastropod fragments
Iron concretions
N Pedogenic carbonate nodules

OTHER NOTATIONS

5 Average mean vector direction and number of paleocurrent measurements
5Y4/1 GSA rock-color designation (Goddard and others, 1963)
U84KF25TC Petrographic sample
U84KF40TCp* Palynomorph sample; asterisk (*) indicates barren
(D6866) USGS paleobotony locality number
Wasatch Formation sample
Dark Canyon sequence of Wasatch Formation sample
Tuscher Formation sample
Farrer Formation and undifferentiated Farrer and Tuscher Formations sample
Upper part of Bluecastle Tongue of Castlegate Sandstone sample
Lower part of Bluecastle Tongue of Castlegate Sandstone sample
Neslen Formation sample
Sego Sandstone sample
Castlegate Sandstone sample
Offset in section

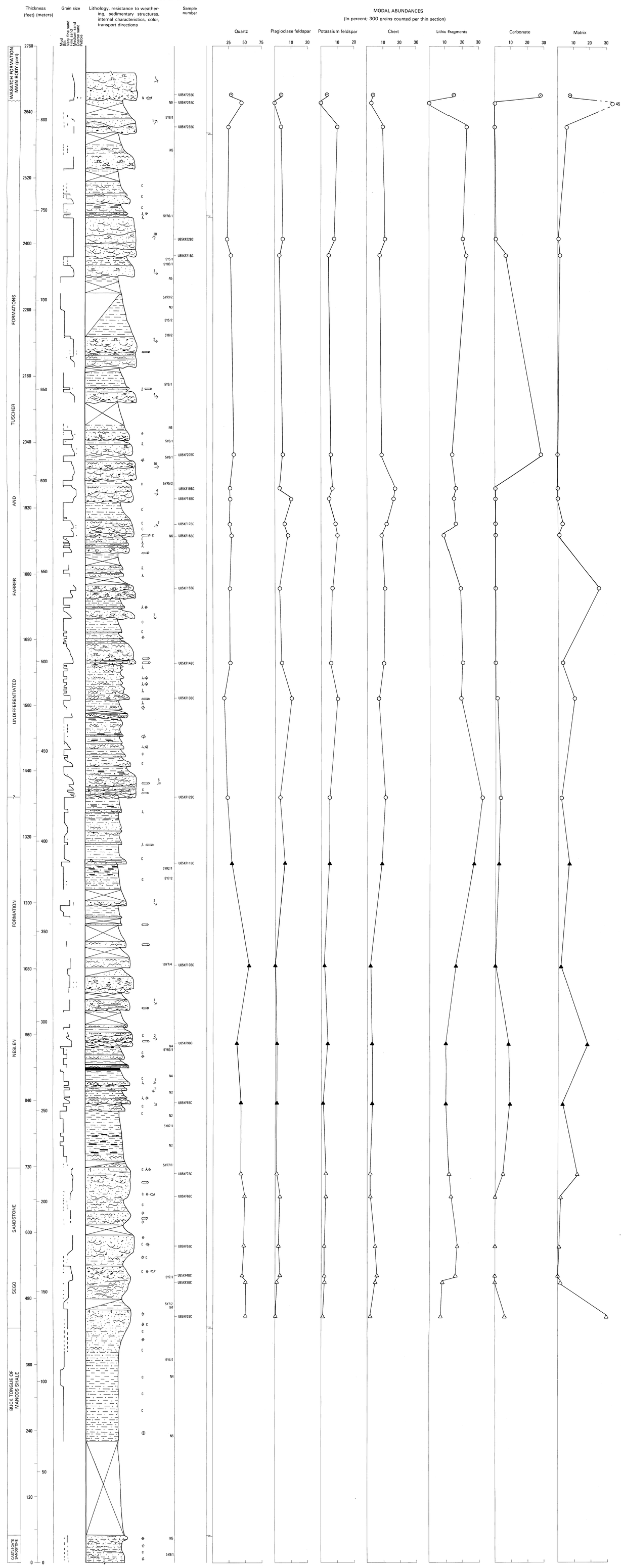
Cottonwood Canyon

Sec. 18, T. 19 S., R. 23 E.; sec. 4, 12, 13, T. 19 S., R. 22 E.; sec. 32, T. 18 S., R. 22. E.



Bitter Creek

Sec. 4, T. 17 S., R. 25 E.; sec. 28, 33, T. 16 S., R. 25 E.



MEASURED SECTIONS AND SANDSTONE MINERALOGY FOR THE COTTONWOOD CANYON AND BITTER CREEK SECTIONS, EASTERN UTAH