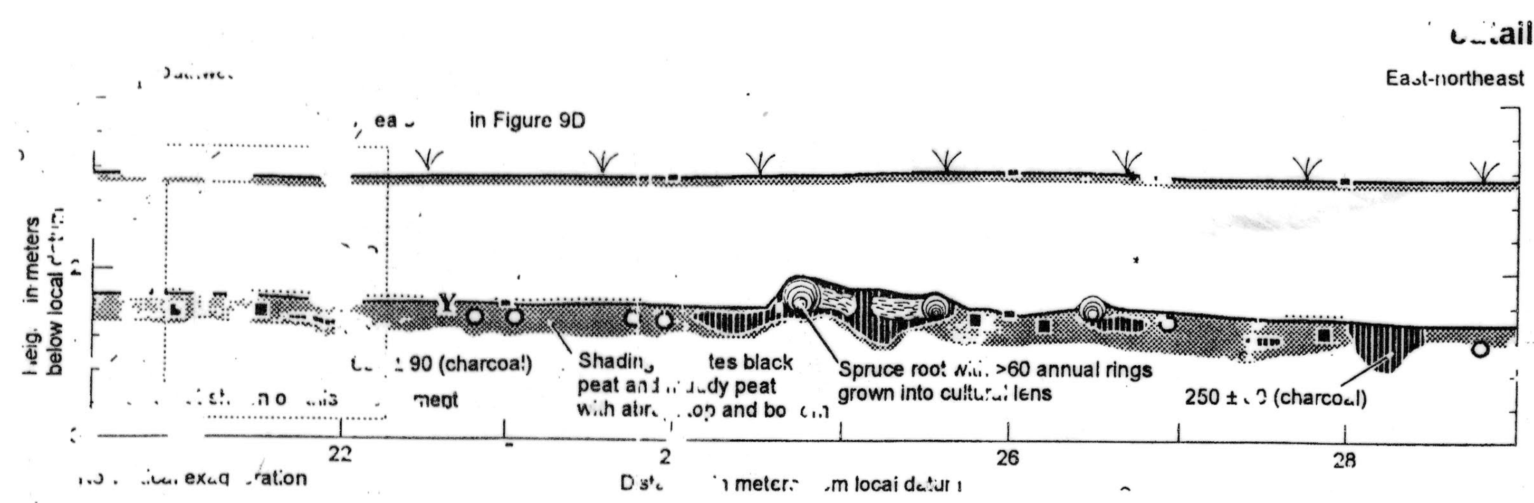
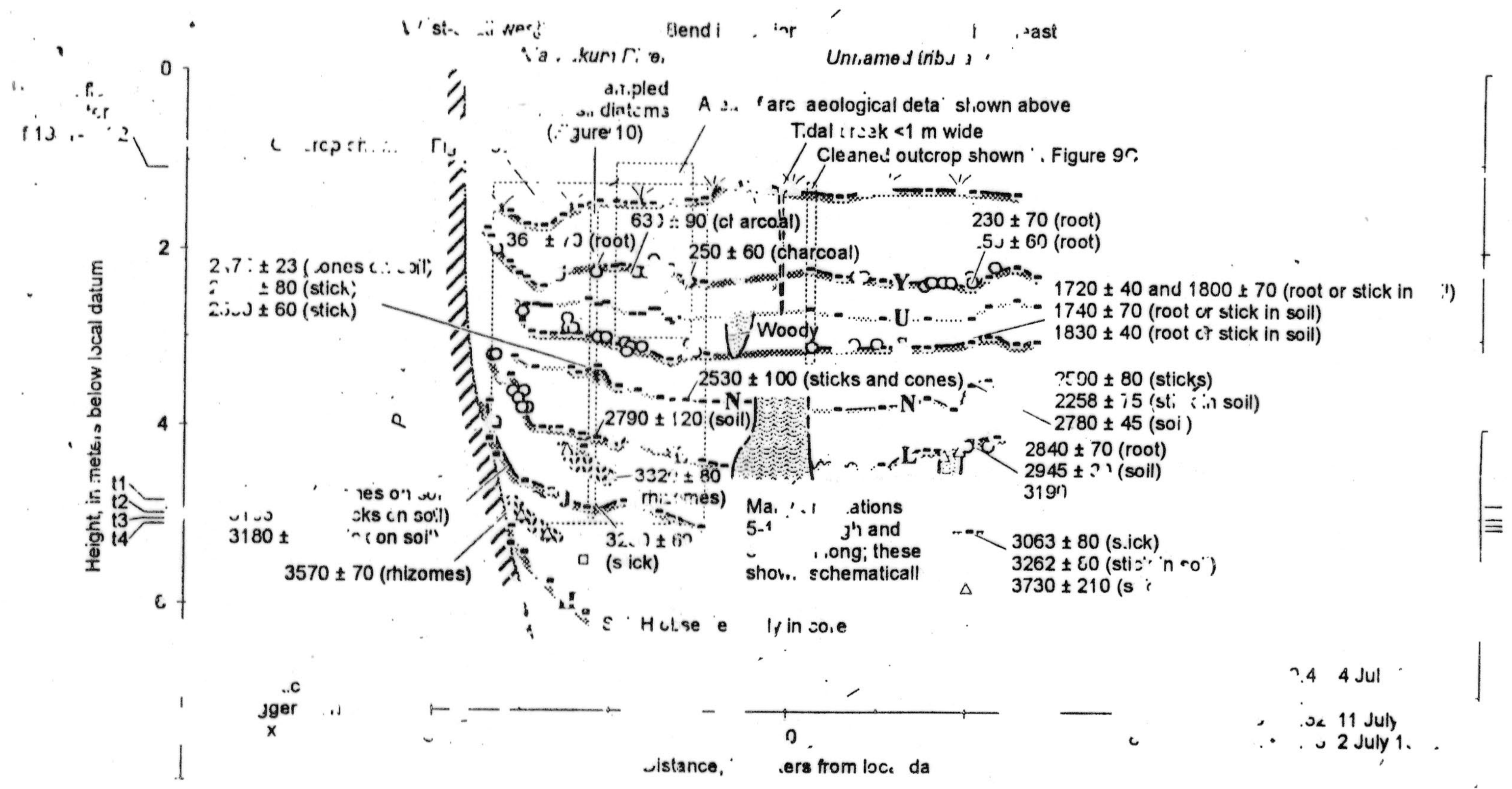
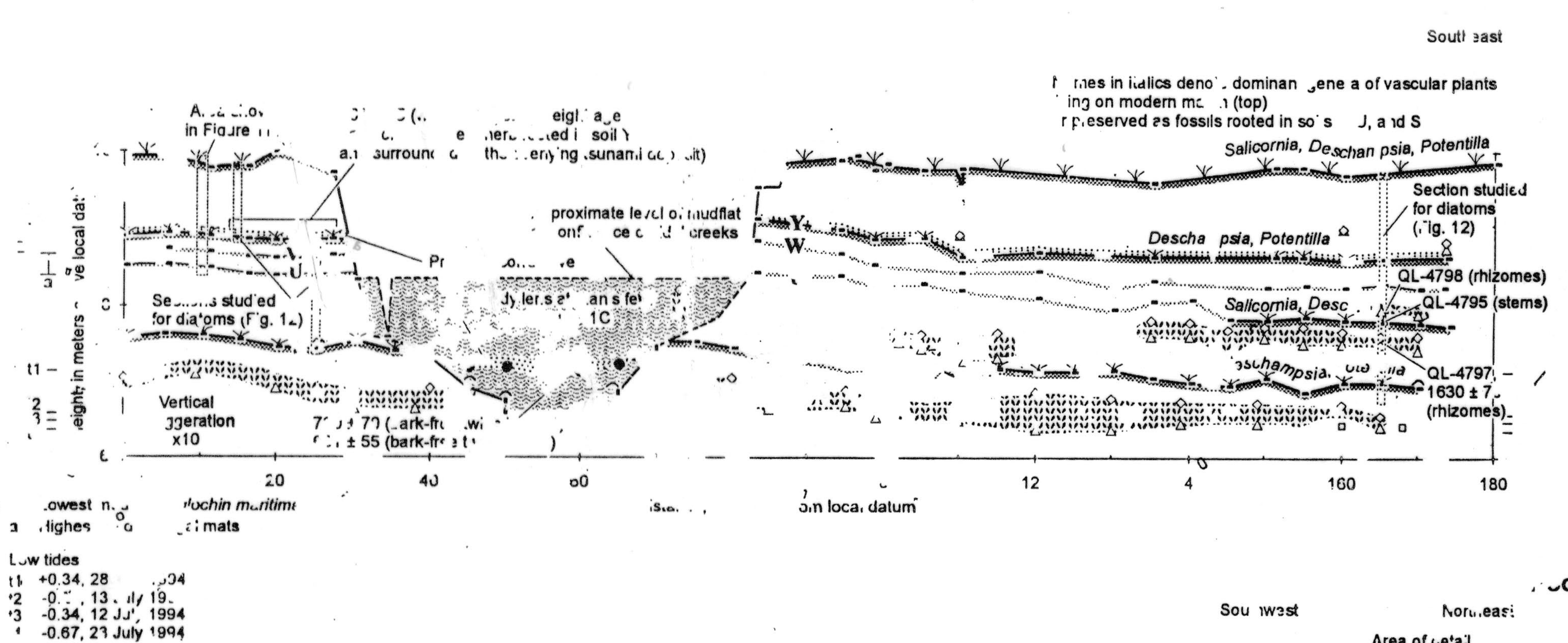
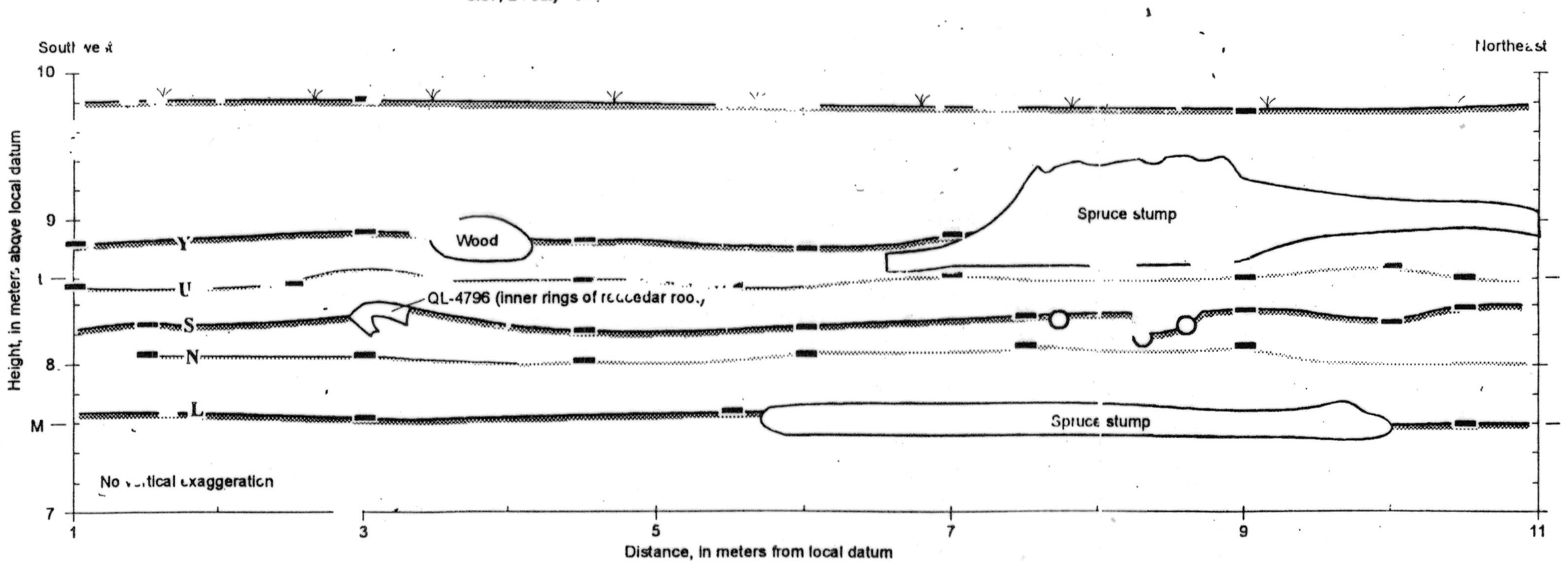
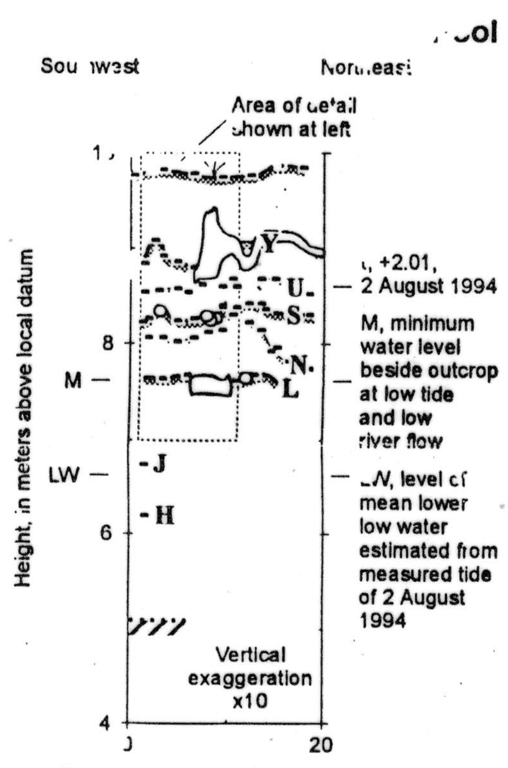
...ps ...on... Niawiaku... Riv...



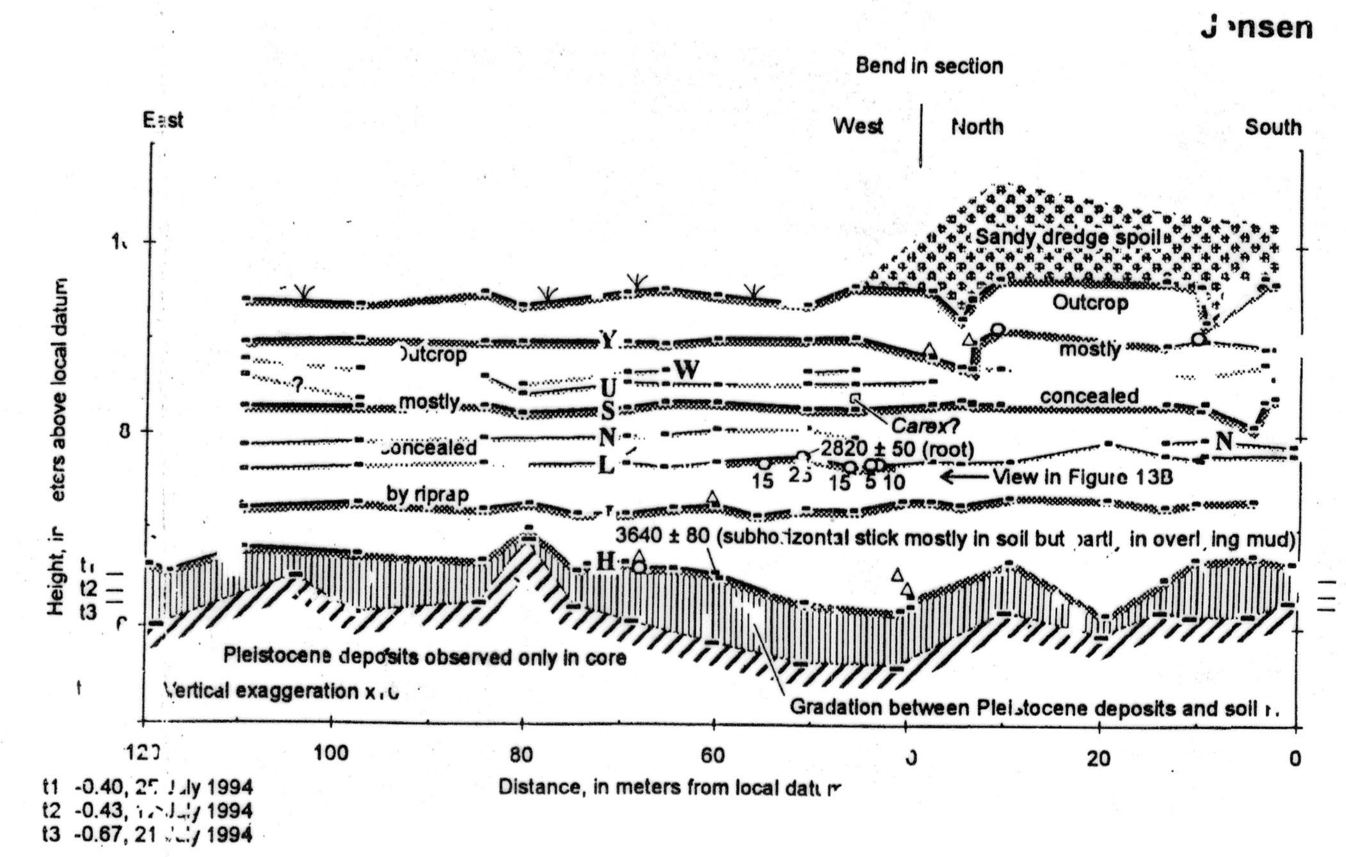


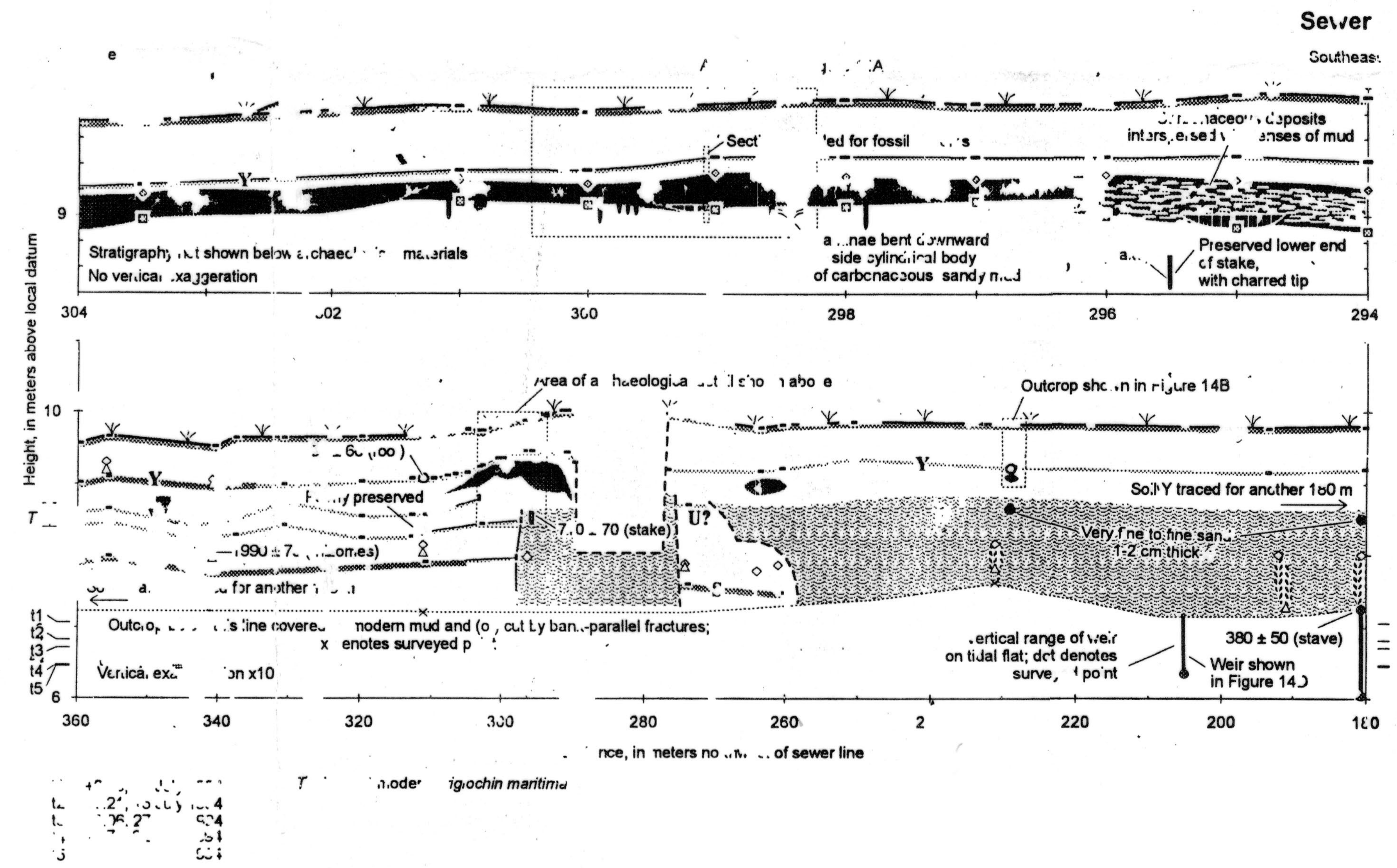


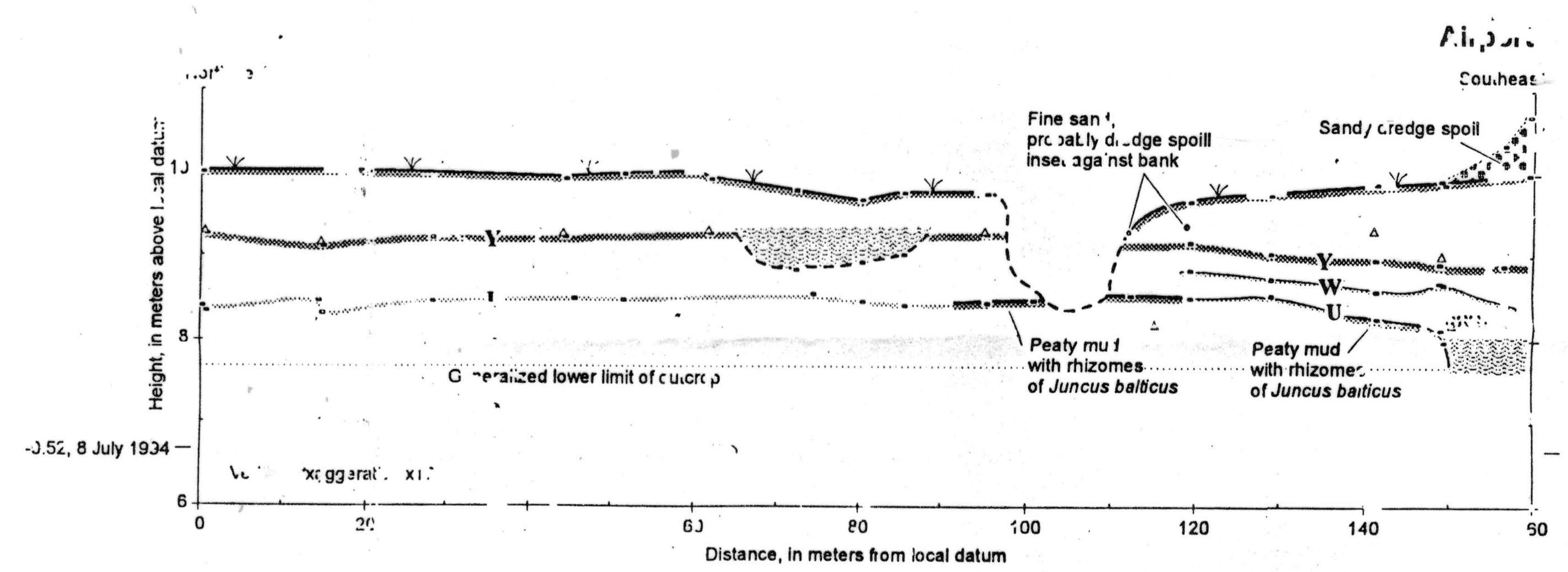




Outcrops along the Willapa River







EXPLANATION

STRATIGRAPHIC CONTACT OR UNIT

Surveyed point

- Top of soil or of Pleistocene deposits
- Top and bottom of cultural lens—Shown only for archaeological detail at Sewer locality
- Bottom of probable tsunami deposit—Shown only for sandy lens ... channel fill at Oyster locality

Top of soil—Shown by solid line where continuity of soil observed; shown only by top of shading where continuity of soil inferred

- Bold soil
- Faint soil

S — Letter name of buried soil—Inferred correlation shown in Figure 8

Top of Pleistocene deposits

Sandy bed probably deposited by tsunami

- Bed with multiple sandy laminae
- Bed with single lamina of very fine sandy silt

Channel fill—Bounded by solid line where unconformable edge observed; bounded by dotted line where such unconformity inferred

LIVE ... ACEOUS PLANTS OF MODERN TIDAL MARSH

FOSSILS

Stems and leaves of herbaceous plants ... buried soil and ... overlying sand or mud—Shown only where observed

... of Sitka spruce ... (at Sewer locality) of shrub—Shown to scale, by symbol with concentric circles, only for largest roots in detail ... archaeological features at Redtail locality

Rhizomes of *Triglochin maritima*

- Surveyed position of lowest (triangle) and highest (diamond) rhizomes
- Large mass of rhizomes—Commonly composed of coalesced, broadly U-... shaped masses that protrude slightly from low-tide outcrop (Figure 11D)

Shell of *Macoma baltica*—Typically disarticulated. Found only at Oyster locality

... FEATURES

... sandy mud and muddy ... contains charcoal and ... U-shaped symbols at bottom denote filled stake holes. Shown only for Sewer locality

Cracked ...—Plotted separately only for Redtail locality

Reddish-brown lens—... probably contains wood ash and marks fire pits

GEOLOGIC SYMBOLS

Age in ... C years before A.D. 1950

Low tide—Label gives predicted height, in meters with respect to mean lower low water. Horizontal line shows observed level

SIGNIFICANCE OF AREAS SHOWN IN WHITE

Between successive surveyed soils, areas in white denote mud except where noted otherwise. Beyond the lateral limits of surveyed soils, areas in white denote concealed or unsurveyed outcrop

Holocene stratigraphy at six outcrops along the Niawiakum and Willapa Rivers, Pacific County, Washington