

Table 1

The Tivoli Bays as a Middle-Scale Setting for Cultural-Ecological Research

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Years before Present (Radio-carbon Years)	Pollen Zones (After Deevey)	Environmental Synthesis	Cultural Stages	Phases, Complexes, or Horizon Styles	Major Hudson Valley Sites & Components (Components on Tivoli Bays in Italics)
500	C3b	Spruce pine rise, Cool, moist. (Correlates largely with Little Ice Age.) Sea approaches present level.	HISTORIC		Rip Van Winkle, Grape
1,000			LATE WOODLAND	Garoga, Chance Oak Hill, Ceramic Castle Creek, Canandiagua horizons, Carpenter Brook	Hurley, <i>S. Cruger</i> , Kingston, Chance, <i>Goat Island</i> , Coffin, <i>S. Cruger</i> , Dennis, Rural Cemetery, Welling
2,000	C3a	The Oak hemlock chestnut period. Cool, moist.	MIDDLE WOODLAND	Hunter's Home phase Fourmile phase Fox Creek phase	Black Rock, Turnbull Tufano, Weinman, River, <i>Goat Island</i> Westheimer, Ford, Parslow, <i>Goat Island?</i> , <i>Grouse Bluff?</i> Canoe Point
3,000		Possible dry episode.	EARLY WOODLAND	Bushkill? phase Middlesex? phase Meadowood phase	Westheimer, <i>Goat Island</i> , <i>Grouse Bluff</i> Palatine Bridge, Dennis Dennis, Nahrwold, <i>Grouse Bluff</i>

	C2	The Oak Hickory period. Warm, dry. Increase in hickory, beech, white oak, hemlock. Rise in abundance of mast foods, small mammals, deer. Slower rate of sea level rise.	TRANSITIONAL	Frost Island phase? Orient phase	Coffin, Dennis, Lotus <i>Grouse Bluff, S. Cruger</i>
4,000		Hemlock lowest frequency	LATE ARCHAIC	Snook Kill Battenkill River phase Sylvan Like phase Vosburg phase	Vedder, Snook Kill, Weir Oatman, Dennis, Bent, River, Young, Pickle Hill, <i>Grouse Bluff</i> Sylvan Lake, Weinman, Hennessy, <i>Grouse Bluff, S. Cruger</i> Sylvan Lake, Weinman, <i>Grouse Bluff, S. Cruger</i>
6,000	C1	The Oak Hemlock period. Warm, moist. High frequencies small mammals than previous period.	MIDDLE ARCHAIC	Vergennes? South Hill? Otter Creek points Stark? point horizon Neville complex	Weinman, Bannerman, <i>S. Cruger</i> , Shafer, Sylvan Lake, Dogan Point, <i>Grouse Bluff</i> North Bowdoin, Muddy Brook, <i>Grouse Bluff, Mohonk</i>

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