**LIST OF SUPPLEMENTARY FIGURES**

**FIGURES**

Figure S-1. Photos of selected AMS radiocarbon dated macrofossils. A) 0 to -1 cm *Menyanthes trifoliata* seed 14C 9530+/-30 yr BP, 10,893+/-123 cal ka (UCIAMS-88697). B) -11 to -12 cm *Menyanthes trifoliata* seed 14C 10,055+/-30 yr BP, 11,574+/-106 cal ka (UCIAMS-88898). C) -22 to -23 cm *Menyanthes trifoliata* seed 14C 10,485+/-30 yr BP, 12,457+/-72 cal ka (UCIAMS-88700). D) -30 to -33 cm *Schoenoplectus tabernaemontani* achene 14C 10,470+/-35 yr BP, 12,417+/-103 cal ka (UCIAMS-88701). E) -37 to -39 cm *Carex rostrata* achene 14C 10,920+/-25 yr BP, 12,765+/-28 cal ka (UCIAMS-168090). F) -43 to -45 cm *Schoenoplectus tabernaemontani* achene 14C 10,720 +/- 30 yr BP, 12,678+/-26 cal ka (UCIAMS-88702). G) -12 to -13 cm *Salix* twig with adhering bark 14C 9985 +/-30 yr BP, 11,442+/-98 cal ka (UCIAMS-88699). H) -55 to -57 cm *Salix* twig 14C 11,020+/-240 yr BP, 12,923+/-220 cal ka (UCIAMS-101444). I) -67 to -69 cm *Salix* twig 14C 11,090+/-35 yr BP, 12,958+/-66 cal ka (UCIAMS-101445).

Figure S-2. Fe+S+Si plots of magnetic spherules (Diaz, 2012, Fig. 4.4).

**TABLES**

Table S1. Selected references in opposition to and supportive of an extraterrestrial event in the Younger Dryas.

Table S2. Bayesian analysis of 28 calibrated AMS dates in Units A and B using the OxCal Bayesian analytical program.

Table S3. Plant macrofossils identified at cm-depth intervals noted.

Table S4. Insect macrofossils identified at cm-depth intervals noted.

Table S5. Surface chemical composition of the eleven magnetic microspherules recovered from Layers LH05 (light blue) & LH07 (light green). Spherule surface chemistry in both layers exhibit two chemically distinct populations: One type enriched in Al-Si glass & the other Fe enriched. LIght tan columns show average composition of each population. The chemical abundances appear consistent with terrestrial target rock. Spherule surface morphology is characteristic of a rapidly-quenched molten vapor state characteristic of impact distal ejecta.

Table S6. Abundances of Platinum Group Elements and their ratios including Pt, Ir, and Pd at depths noted in cm. Nanodiamond values also shown. Values reported are from this study and from Paquay et al. (2009) and Kinzie et al. (2014).

**SUPPLEMENTARY INFORMATION ON METHODOLOGY**