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Supplemental Material

$^{40}\text{Ar}/^{39}\text{Ar}$ geochronology

Figure S1: Rank order plots of Ar data

Figure S2: Ar single crystal sanidine fusion data

Kaiparowits Plateau transect

Figure S3: Correlation of Kaiparowits sites and Portland Core, Colorado

Cenomanian-Turonian boundary age estimates

Table S1: CTB ages calculations

Base OAE2 hiatus in Portland Core

Figure S4: Magnified OAE2 onset interval in Portland and SH#1 cores

Angus Core depth scale correction

Table S2: Coulometric data from Angus Core OAE2 interval

Table S3: Corrected Angus Core depths OAE2 interval

Comparison of OAE2 time scales from the central Western Interior Basin and Eagle Ford Group (Texas)

Figure S5: Comparison of floating astronomically-tuned geochemical timeseries

Complete Ar results

Table S4: Complete $^{40}\text{Ar}/^{39}\text{Ar}$ results

Table S5: Complete Ar data for samples 90-O-34 and K-07-01C

Supplementary References