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SUPPLEMENTARY ONLINE MATERIAL FOR

**On the margins: exceptionally preserved small carbonaceous fossils (SCFs)  
from Silurian marginal marine strata of southern China**

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**Supplementary Online Material**

**SOM: Table S1.** Locality details of samples in this study.

**SOM: Table S2.** Repository numbers and England Finder coordinates of figured fossil specimens in this study.

**Table S1.** Locality details of samples in this study. The samples used for SCF analysis were collected from the layers of yellow-green thinly layered silty shales of the Xiaoxi Formation.

| Sample no. | Section                  | Locality        | GPS coordinates           |
|------------|--------------------------|-----------------|---------------------------|
| BJTQ-1     | Yayu section             | Baojing county  | 28°51'2" N, 109°28'8" E   |
| BJTQ-2     | Yayu section             | Baojing county  | 28°51'2" N, 109°28'8" E   |
| HBKP-3     | Kapeng Reservoir section | Baojing county  | 28°38'6" N, 109°6'52" E   |
| HBKP-10    | Kapeng Reservoir section | Baojing county  | 28°38'6" N, 109°6'52" E   |
| LSLM-S     | Malao section            | Yongshun county | 28°58'55" N, 109°35'35" E |
| SZXL-1     | Shizinao section         | Sangzhi county  | 29°40'19" N, 110°34'13" E |
| SZXL-2     | Shizinao section         | Sangzhi county  | 29°40'19" N, 110°34'13" E |
| XX-1       | Fengheshan section       | Cili county     | 29°40'6" N, 110°58'49" E  |
| XX-2       | Fengheshan section       | Cili county     | 29°40'6" N, 110°58'49" E  |
| YSTCG-1    | Tongchaku section        | Longshan county | 29°19'8" N, 109°41'43" E  |

**Table S2.** Repository numbers and England Finder coordinates of figured fossil specimens in this study. Prefixes SZXL, HBKP, and LSLM denote palynological samples collected from the Shizinao, Kapeng Reservoir, and Malao sections, respectively.

| Figure no. | Palynological slide no. | England Finder coordinates |
|------------|-------------------------|----------------------------|
| Figure 2A  | SZXL-1-5                | H32/2                      |
| Figure 2B  | SZXL-1-5                | X35/4                      |
| Figure 2C  | HBKP-3-2                | L33/3                      |
| Figure 2D  | SZXL-1-2                | V37/4                      |
| Figure 2E  | HBKP-3-1                | L43/1                      |
| Figure 2F  | SZXL-1-5                | R32/1                      |
| Figure 2G  | HBKP-3-3                | O31/2                      |
| Figure 2H  | SZXL-2-1                | P29/1                      |
| Figure 2I  | SZXL-2-2                | X35/4                      |
| Figure 2J  | SZXL-1-5                | T32/2                      |
| Figure 2K  | SZXL-1-3                | U36/4                      |
| Figure 2L  | SZXL-2-2                | D36/3                      |
| Figure 2O  | SZXL-1-4                | H36/2                      |
| Figure 2P  | SZXL-1-3                | K35/2                      |
| Figure 2Q  | HBKP-10-1               | K41/2                      |
| Figure 2R  | SZXL-1-5                | Q48/1                      |
| Figure 2S  | HBKP-3-2                | N32/4                      |
| Figure 2T  | SZXL-1-2                | O38/2                      |
| Figure 2U  | SZXL-1-3                | S39/3                      |
| Figure 2V  | SZXL-1-3                | T41/3                      |
| Figure 2W  | SZXL-2-1                | G29/4                      |
| Figure 2X  | SZXL-1-5                | O47/2                      |
| Figure 2Y  | SZXL-1-2                | O40/3                      |
| Figure 2Z  | SZXL-1-2                | L41/1                      |
| Figure 2AA | SZXL-1-5                | O46/4                      |
| Figure 2AB | SZXL-2-2                | M34/3                      |
| Figure 2AC | SZXL-1-4                | M37/3                      |
| Figure 2AD | SZXL-1-2                | M39/2                      |
| Figure 2AE | SZXL-1-5                | K43/4                      |
| Figure 2AF | SZXL-1-5                | H37/1                      |
| Figure 3A  | SZXL-2-1                | R42/3                      |
| Figure 3B  | HBKP-10-2               | O32/4                      |
| Figure 3C  | HBKP-3-3                | P43/3                      |
| Figure 3D  | SZXL-1-5                | S35/1                      |
| Figure 3E  | SZXL-2-1                | U31/4                      |
| Figure 3F  | SZXL-1-1                | P43/3                      |
| Figure 3G  | SZXL-1-2                | J31/4                      |
| Figure 3H  | SZXL-1-2                | J37/1                      |
| Figure 3I  | SZXL-2-2                | D38/1                      |
| Figure 3J  | SZXL-1-3                | O33/1                      |
| Figure 3K  | SZXL-1-2                | Q40/2                      |
| Figure 3L  | SZXL-1-2                | R38/3                      |
| Figure 3M  | SZXL-1-2                | Q29/2                      |
| Figure 3N  | SZXL-1-5                | N34/4                      |
| Figure 3O  | SZXL-1-4                | N33/3                      |

|           |             |       |
|-----------|-------------|-------|
| Figure 3P | SZXL-1-3    | R37/4 |
| Figure 4A | SZXL-1-3-45 | F38/1 |
| Figure 4B | SZXL-1-2    | N39/3 |
| Figure 4C | SZXL-1-1    | P39/3 |
| Figure 4D | SZXL-1-3-76 | R44/2 |
| Figure 4E | SZXL-1-1    | R41/2 |
| Figure 4F | SZXL-1-2    | O39/1 |
| Figure 4G | SZXL-1-5    | N44/2 |
| Figure 4H | SZXL-1-2    | L30/3 |
| Figure 4I | SZXL-1-2    | V33/2 |
| Figure 4J | LSLM-S-3    | K42/2 |
| Figure 4K | SZXL-1-2    | P30/3 |
| Figure 4L | SZXL-1-2    | L39/2 |
| Figure 4M | SZXL-1-3    | O33/4 |
| Figure 4N | SZXL-1-4    | K44/1 |
| Figure 4O | SZXL-1-1    | T39/2 |
| Figure 4P | SZXL-2-1    | M41/2 |