

Supplementary Materials

Table S1. Coefficient of determination (R^2) between the target drought indices and one- to three-pentad lagged drought indices, and between target drought indices and predicted drought indices for six selected points (Point 1: 17°N and 80°E; Point 2: 34°N and 102°E; Point 3: 42°N and 123°E; Point 4: 47°N and 102°E; Point 5: 48°N and 83°E; and Point 6: 49°N and 112°E). Most of the cases, the predicted drought indices showed higher R^2 with the target drought indices than the time lagged drought indices did. The highest R^2 values are shown in bold for each point.

VSDI	Point 1	Point 2	Point 3	Point 4	Point 5	Point 6
One-pentad lag	0.588	0.4353	0.3831	0.4326	0.4837	0.4847
Two-pentad lag	0.4708	0.1585	0.2881	0.2682	0.3813	0.3956
Three-pentad lag	0.4319	0.1315	0.2501	0.2545	0.3335	0.3916
Predicted VSDI	0.6889	0.5041	0.3481	0.5329	0.5184	0.5625
MIDI	Point 1	Point 2	Point 3	Point 4	Point 5	Point 6
One-pentad lag	0.1549	0.0413	0.0198	0.0227	0.0575	0.0285
Two-pentad lag	0.0468	0.0002	0.0566	0.0037	0.0223	0.0394
Three-pentad lag	0.017	0.0031	0.0001	0.0015	0.0302	0.062
Predicted MIDI	0.4624	0.0784	0.1156	0.1024	0.0225	0.1156
SDCI	Point 1	Point 2	Point 3	Point 4	Point 5	Point 6
One-pentad lag	0.1768	0.0274	0.0124	0.0001	0.0923	0.0151
Two-pentad lag	0.0828	0.0081	0.0076	0.0005	0.0089	0.0012
Three-pentad lag	0.0602	0.0001	0.0075	0.0001	0.0013	0.0005
Predicted SDCI	0.4489	0.0361	0.0256	0.0529	0.0016	0.0144

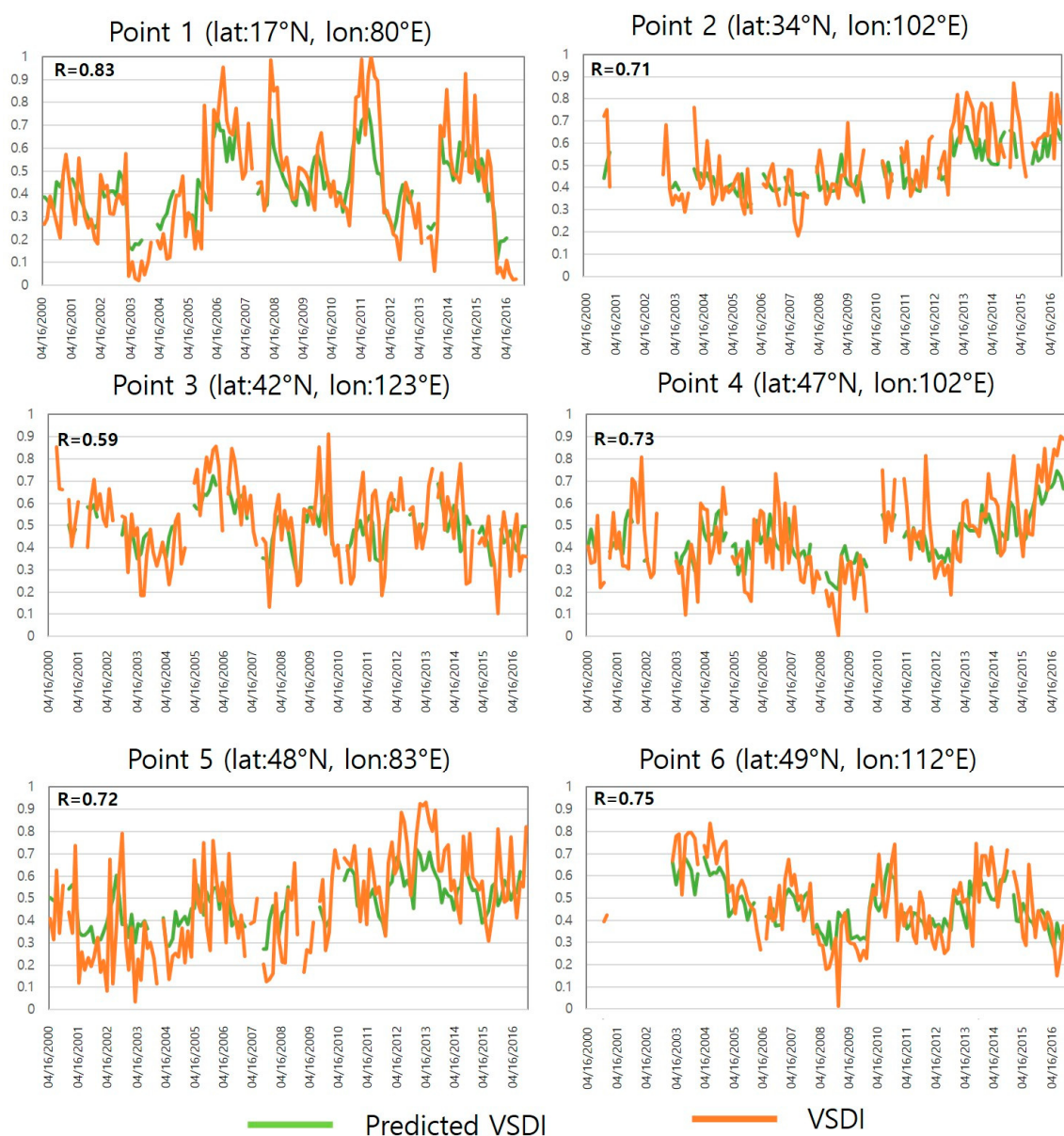


Figure S1. Time series graphs of the very short-term drought index (VSDI) and the predicted VSDI for the six selected points.

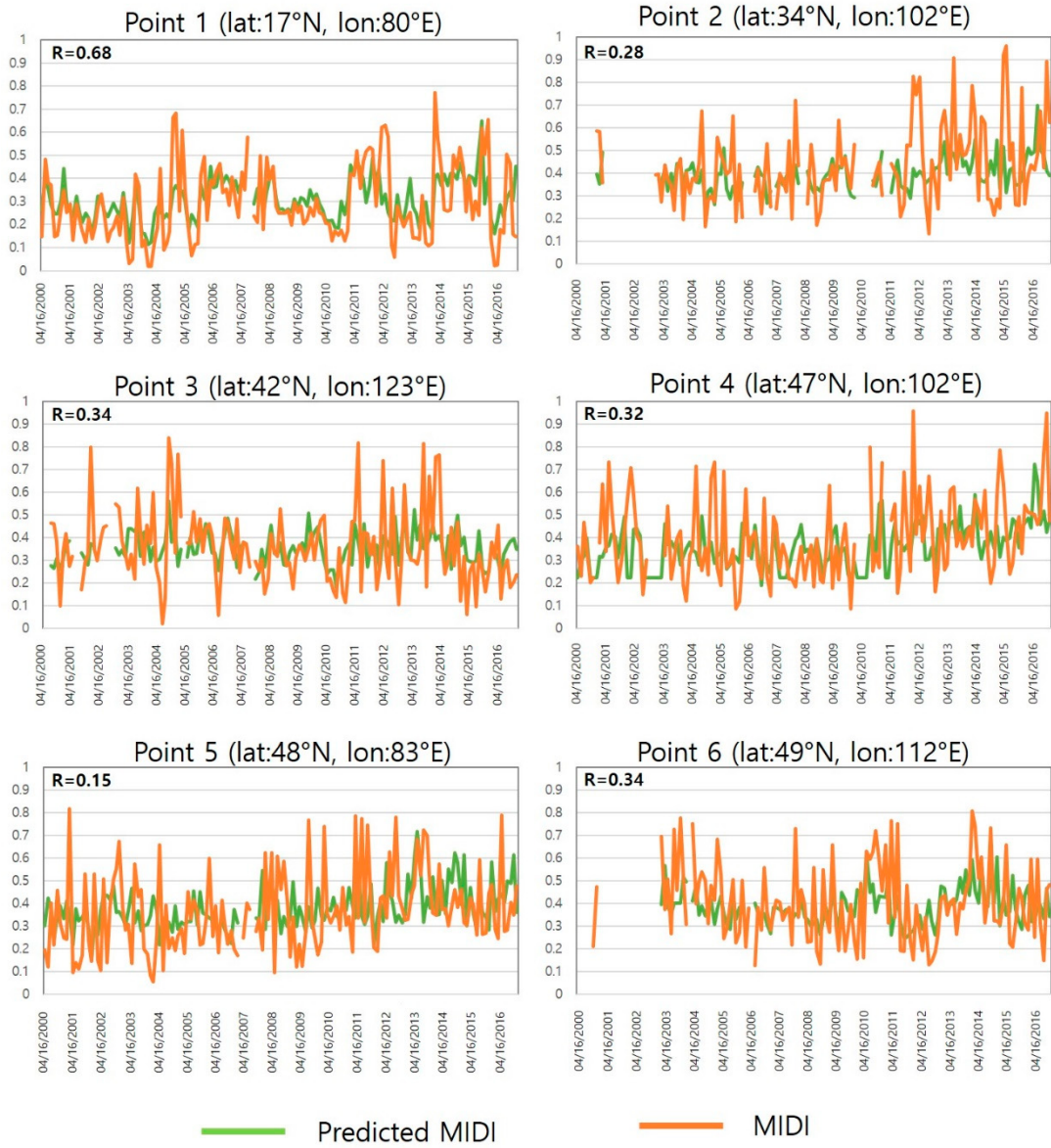


Figure S2. Time series graphs of the microwave integrated drought index (MIDI) and the predicted MIDI for the six selected points.

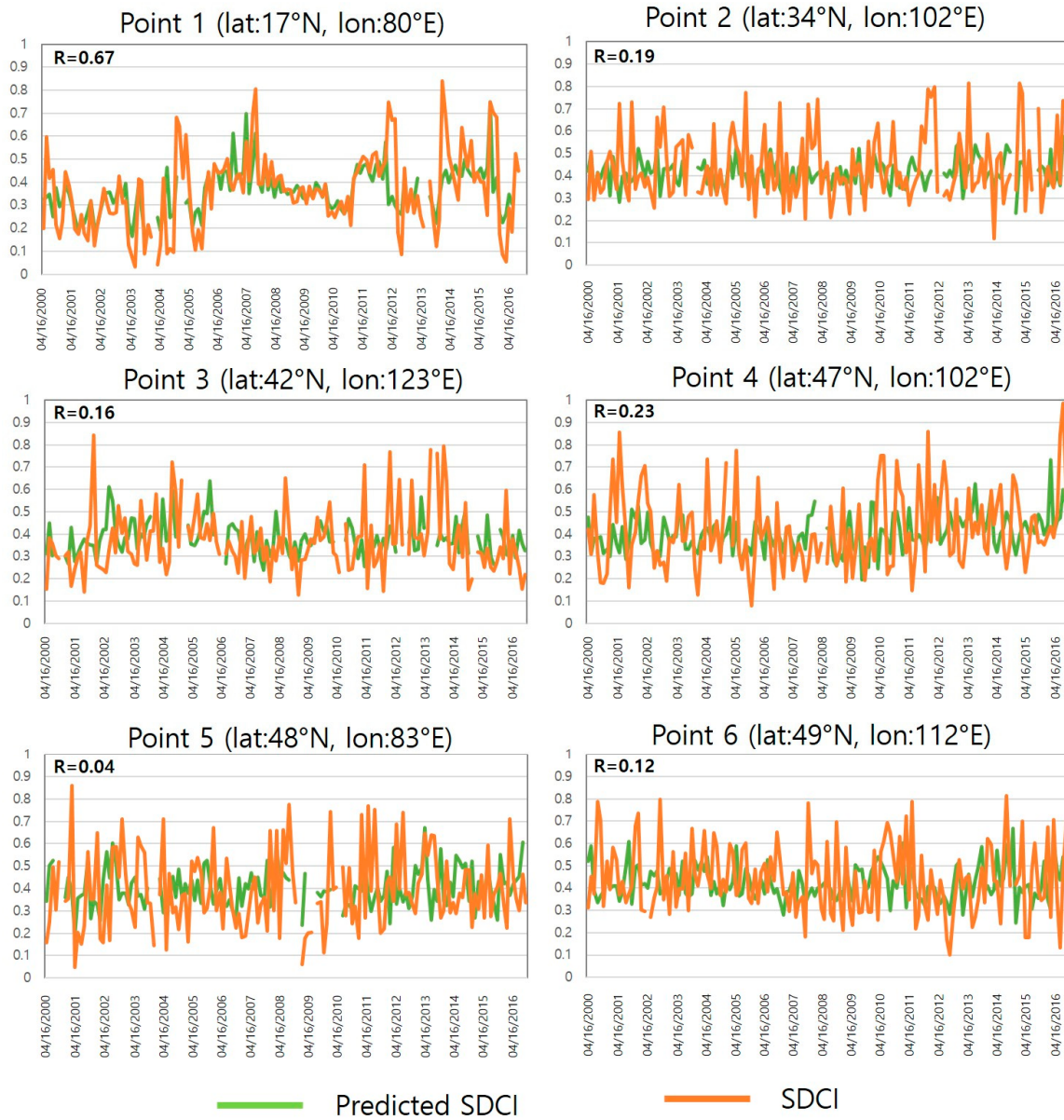


Figure S3. Time series graphs of the scaled drought condition index (SDCI) and the predicted SDCI for the six selected points.