



Feasibility tests of various satellite-based drought indices for croplands in Korea

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Drought is a natural disaster that makes it difficult to determine the exact beginning and ending. Therefore, depending on the impact on drought can be categorized as meteorological, agricultural, hydrological drought. Due to recent climate change global droughts are frequent and intensifying worldwide, sustained drought monitoring is required for large areas. It is therefore important to quantify the drought condition using remote sensing data from various satellites. In this study, we selected various universally used drought indices such as SPI, VHI, etc. and evaluated the applicability to Korea. After calculating each index using high resolution satellite data, we conducted a comparison among drought indexes and an applicability analysis for agricultural drought monitoring.