Real-time Weather Map at OSU Campus

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Real-time weather map performs real-time weather information update and weather condition animation in both 2D and 3D ways. As shown in Fig 1, the real-time weather information including temperature and weather conditions is displayed by counties. When we zoom in the map to a target county, the corresponding weather condition animation will be performed, which provides a straightforward visual effect.
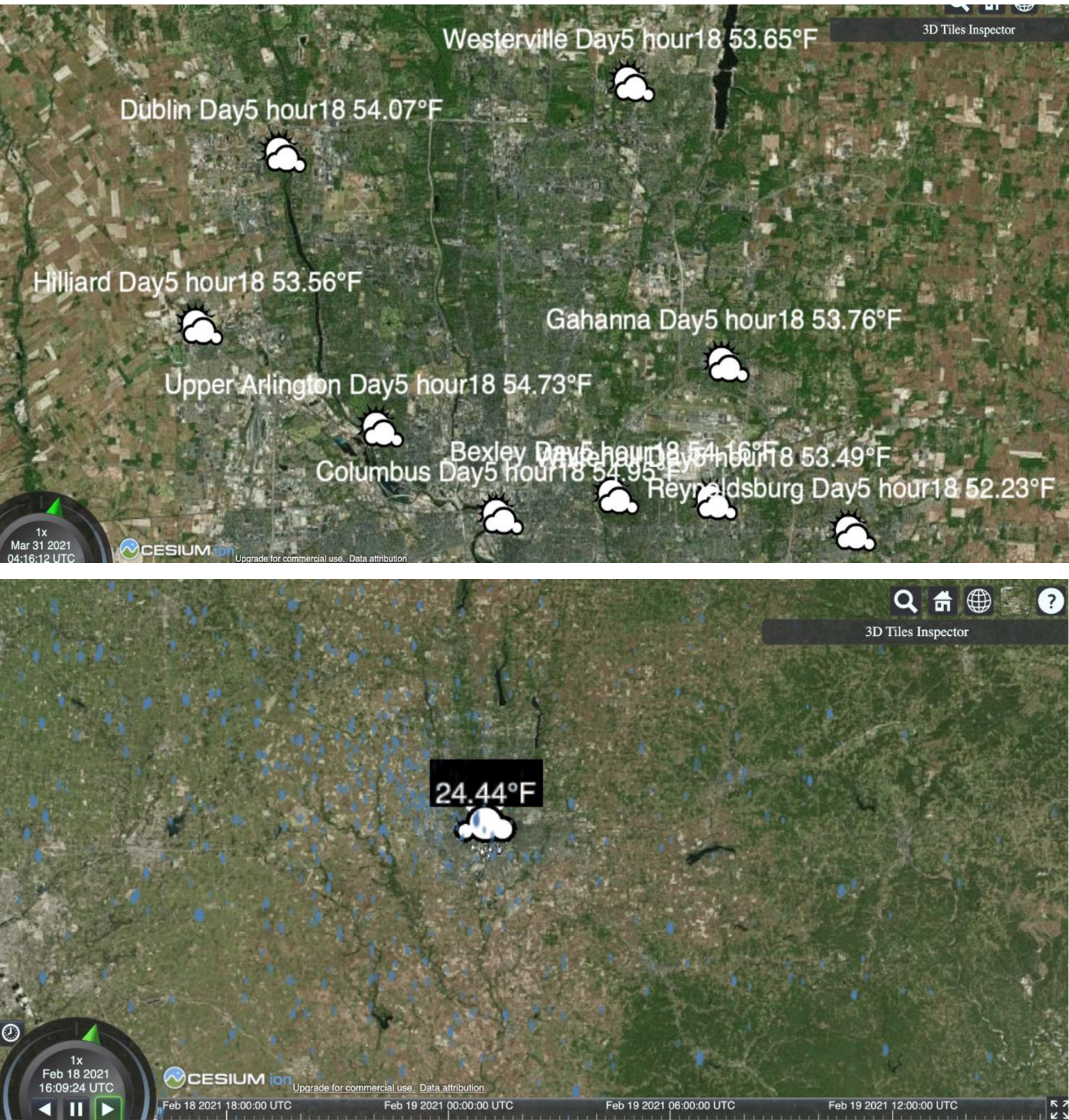
Besides the 2D animation, our map can also perform 3D weather animation with the help of Cesium platform and OSU campus satellite 3D model. When we further zoom in to a certain area like OSU campus in our demo, as shown in Fig 2, the corresponding weather condition including snow and rain conditions will be animated. Besides, the animation vary with how heavy the rain/snow is in the target area.
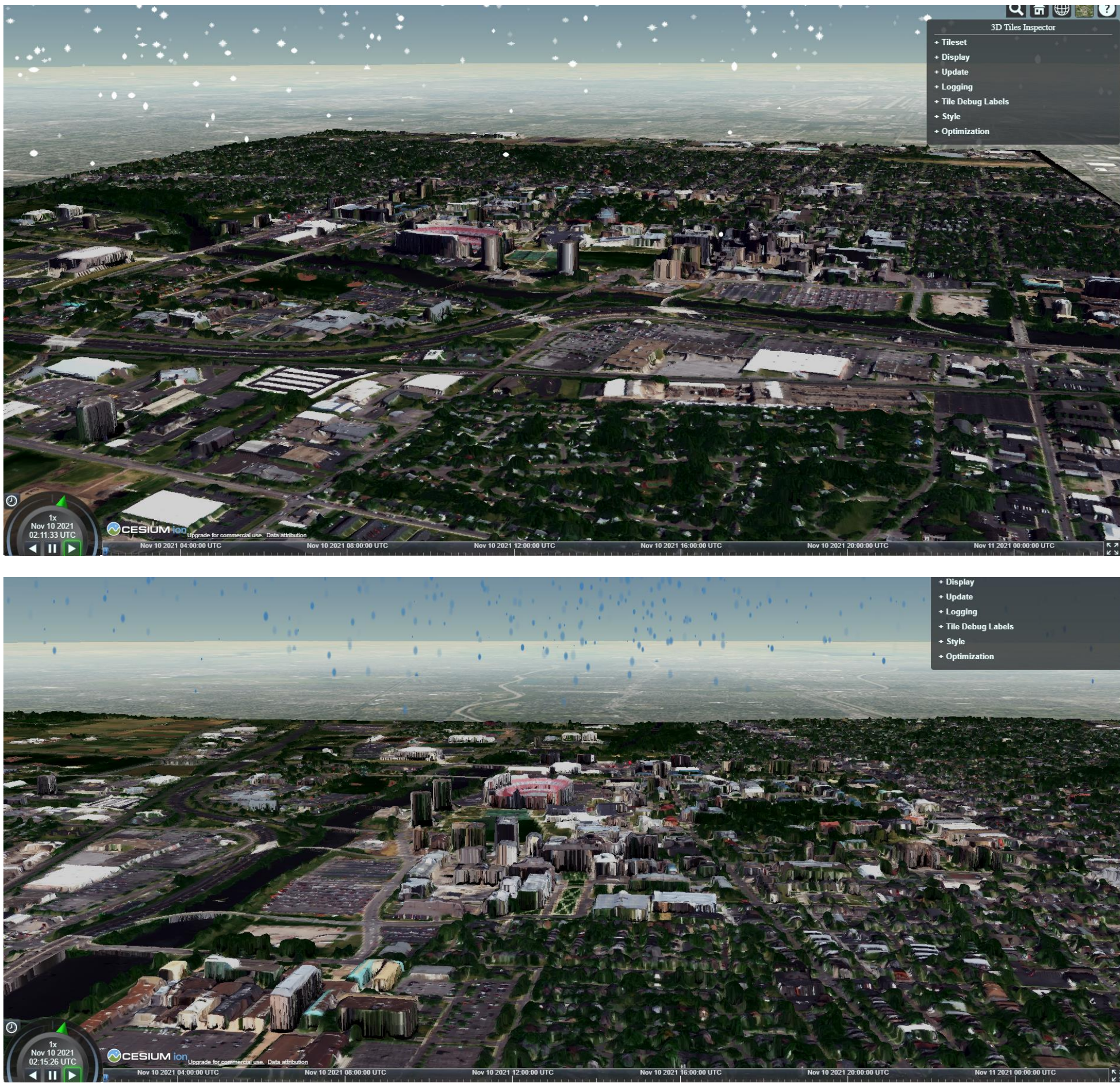
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Fig 1. Real-time weather map at Columbus area, Ohio.

Fig 2. 3D real-time weather visualization with Satellite OSU campus model and snow/rain animation.

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