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Food security packaging with utilization of numerical modeling and satellites observations

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We are plan to packaging process (called "food security package") for the estimation of global yield by a coupling model of hydrological and crop-growth modules. Driving forces of crop-growth such as precipitation, solar radiation, soil moisure will be given by satellite drived-products. In addition, initial and several condition such as crop calender, land-use map and so on also needs to assist satellite-based products. In this presentation, we will explain the overview of food security package, and the requirements of satellite-based products.

Keywords: yield estimation, hydrological modeling, satellite observation