

Documentation for U.Yonsei MM5 Singular

Vector

Title	Yonsei U. MM5 Singular Vector Model Output [Yonsei U.]
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Product description

Product	Real-time MM5 SV product
Period	2008. 08. 01. ~ 2008. 10. 05
frequency	Daily (00 UTC)
format	All products are GIF image files.
Modeling system	MM5 adjoint modeling system and lancos algorithm
SV related info.	Dry total energy norm 48h optimization time with 48h lead time
Target regions	Taiwan : 18~30 N, 118~132 E Japan : 20~40 N, 120~150 E Korea : 30~42 N, 118~132 E
Model domain	50x50 (120 km) with 14 vertical levels
Model Physics	Full physics for basic state (nonlinear model) Simple moist physics (large-scale condensation) for linear physics
Data	NCEP GFS data is used for initial and boundary condition

Data overview (name conventions)

YSU_MM5SV_date_target_SV1_initial.gif	Vertically-integrated 1st SV at initial time
YSU_MM5SV_date_target_SV1_evolved.gif	Vertically-integrated 1st SV at evolved time
YSU_MM5SV_date_target_SV2_initial.gif	Vertically-integrated 2nd SV at initial time
YSU_MM5SV_date_target_SV2_evolved.gif	Vertically-integrated 2nd SV at evolved time
YSU_MM5SV_date_target_SV3_initial.gif	Vertically-integrated 3rd SV at initial time
YSU_MM5SV_date_target_SV3_evolved.gif	Vertically-integrated 3rd SV at evolved time
YSU_MM5SV_date_target_SV123_initial.gif	Vertically-integrated composite SV at initial time
YSU_MM5SV_date_target_SV123_evolved.gif	Vertically-integrated composite SV at evolved time
YSU_MM5SV_date_target_vertical.gif	Vertical structure of SVs

~ **date** : model initialization time (2day before targeting time)

~ **target** : Taiwan / Japan / Korea