Lecture given at the

WCS Workshop on Land Change Modeling for REDD

October 25– 29, 2010

Wildlife Conservation Society - Bronx Zoo
Bronx, New York, USA

Hosted by

Clark Labs and the Wildlife Conservation Society

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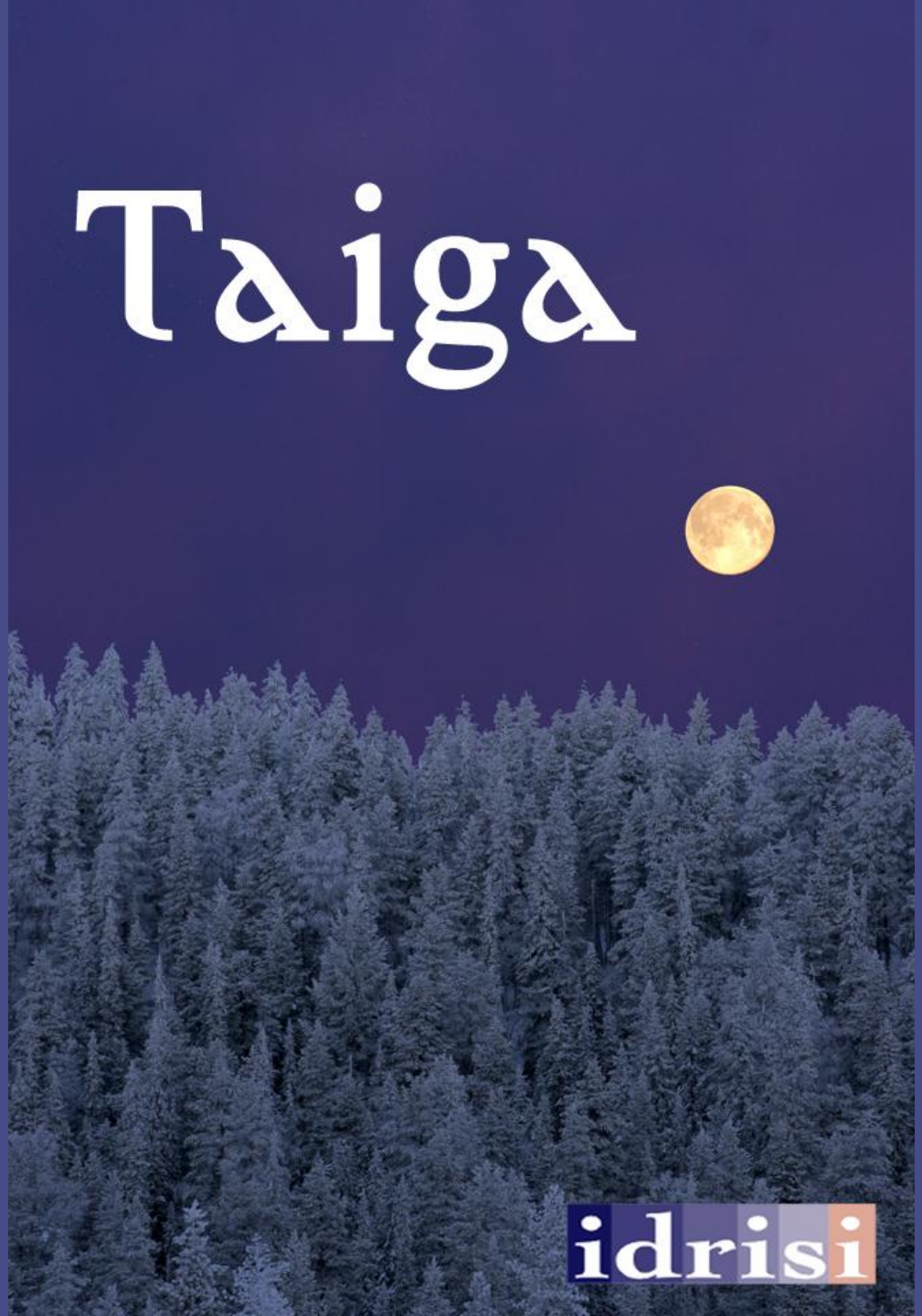
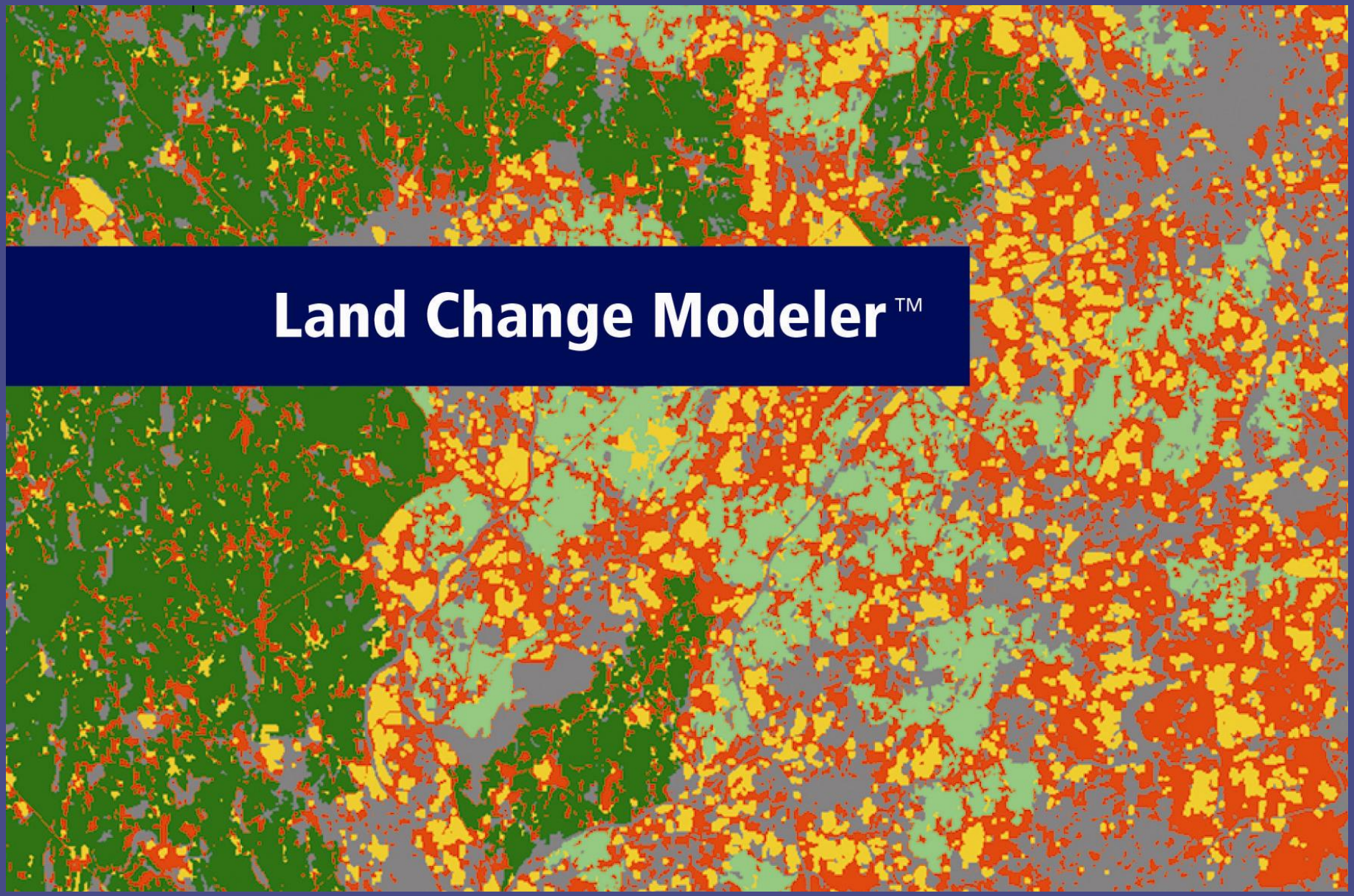
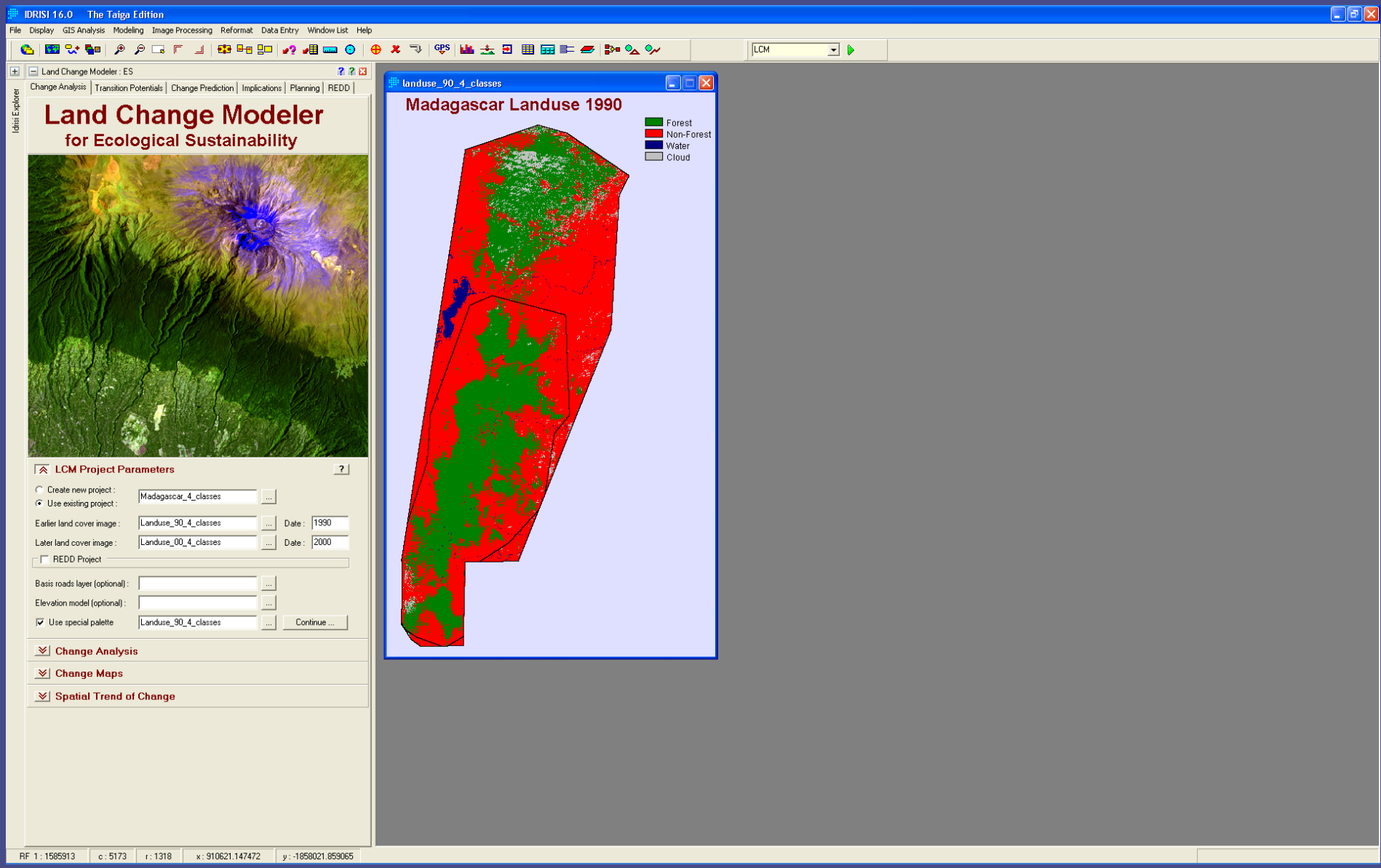
Taiga




Land Change Modeler™

Change Analysis – Project Parameters – Validation



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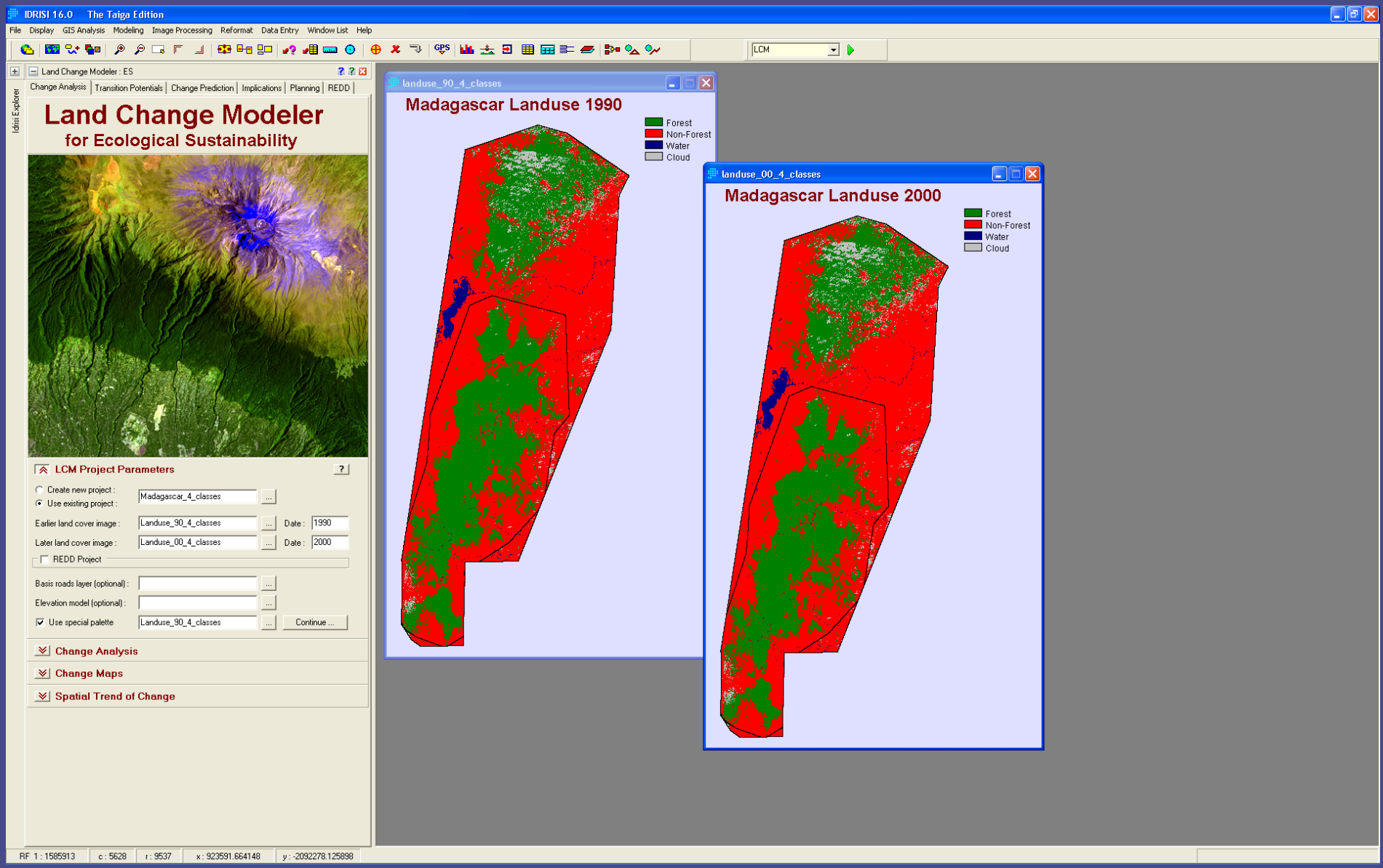

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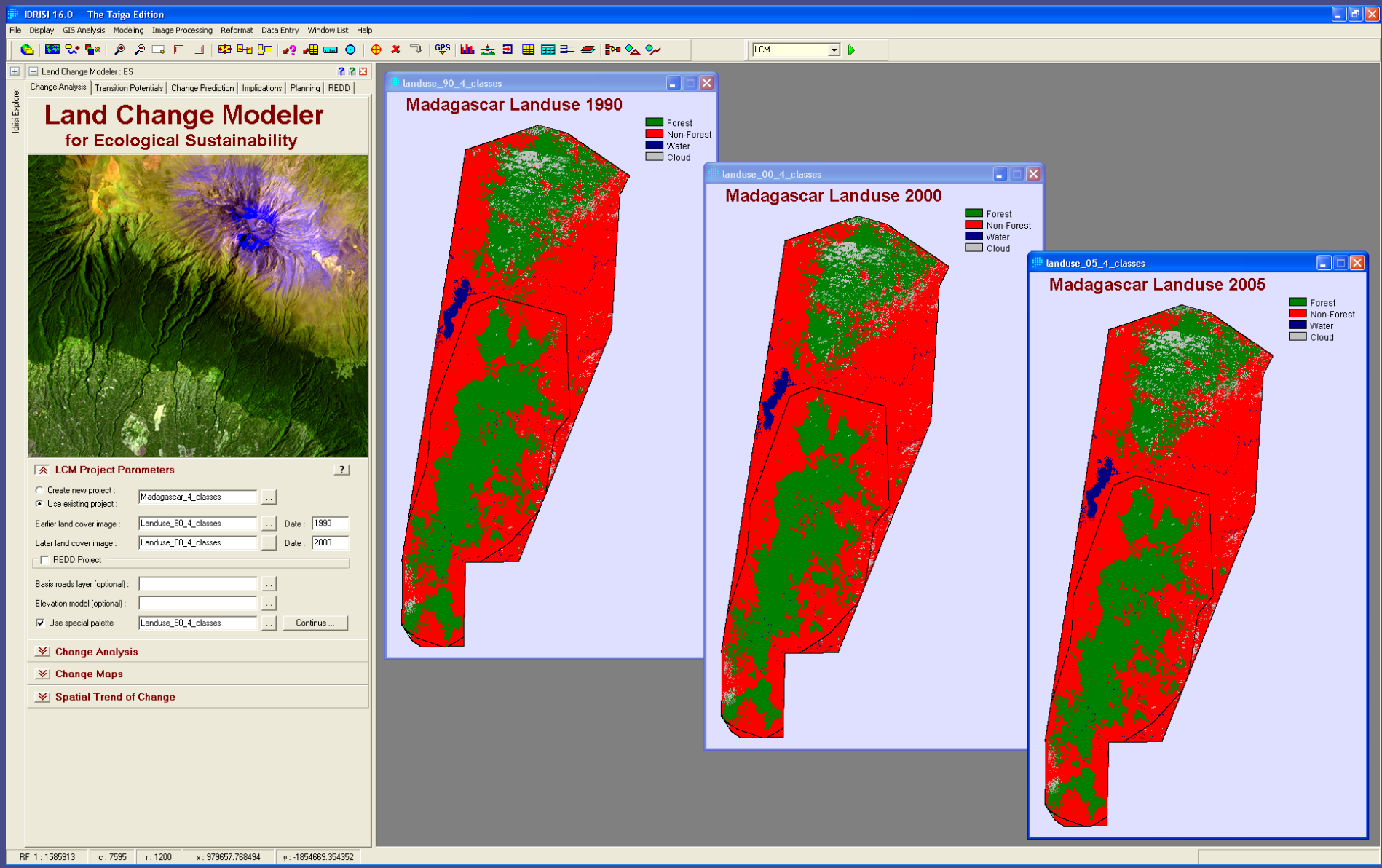

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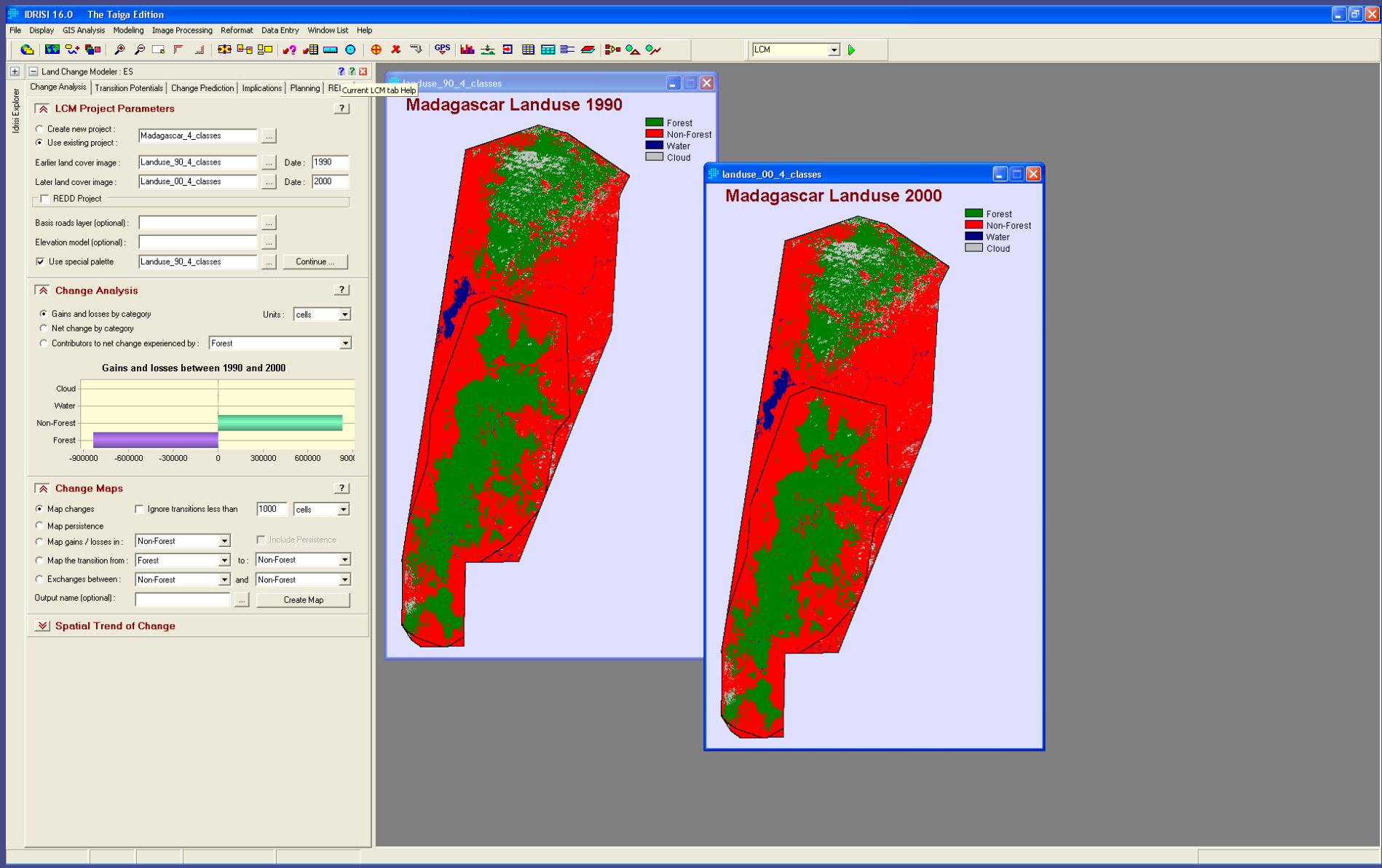

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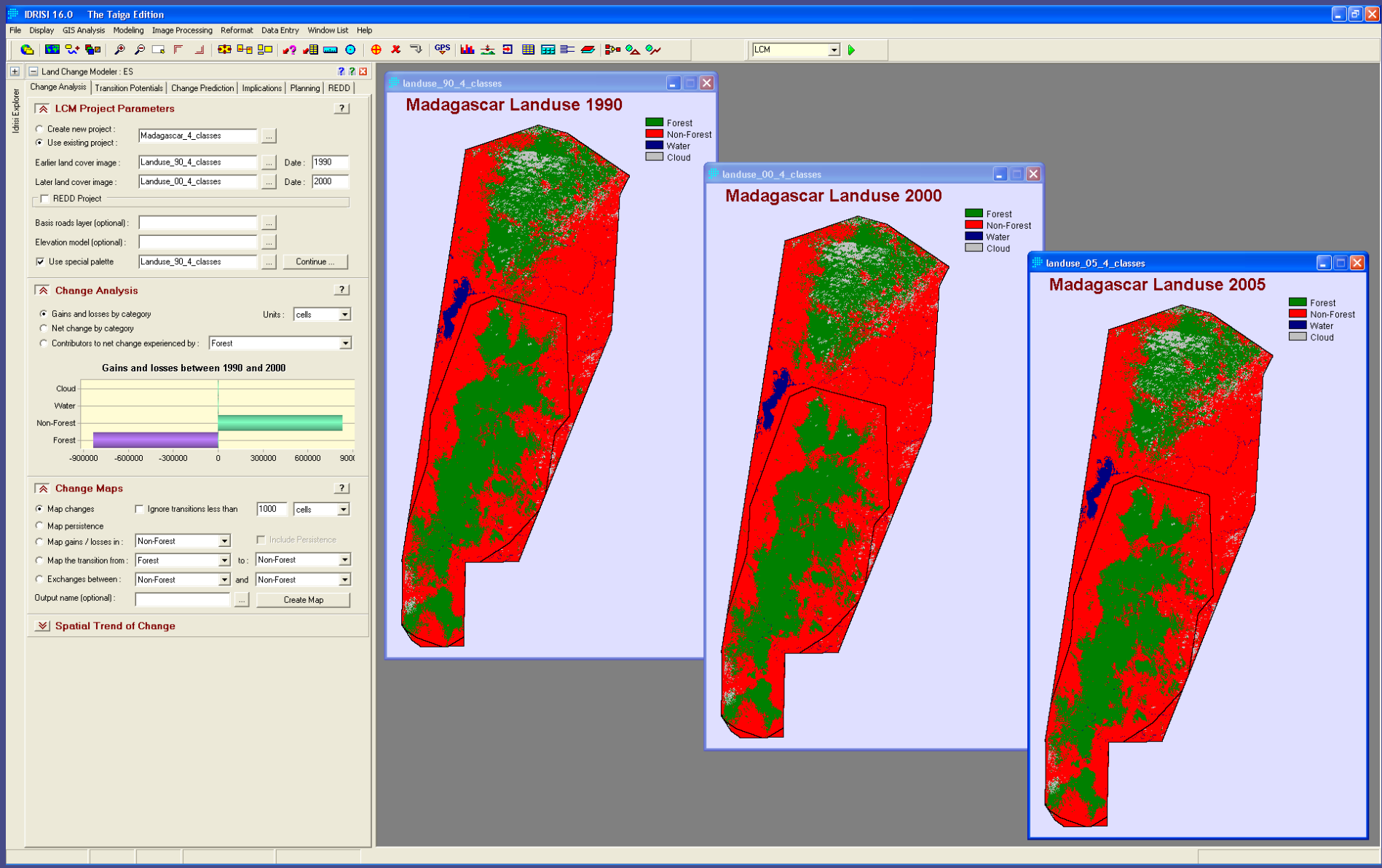
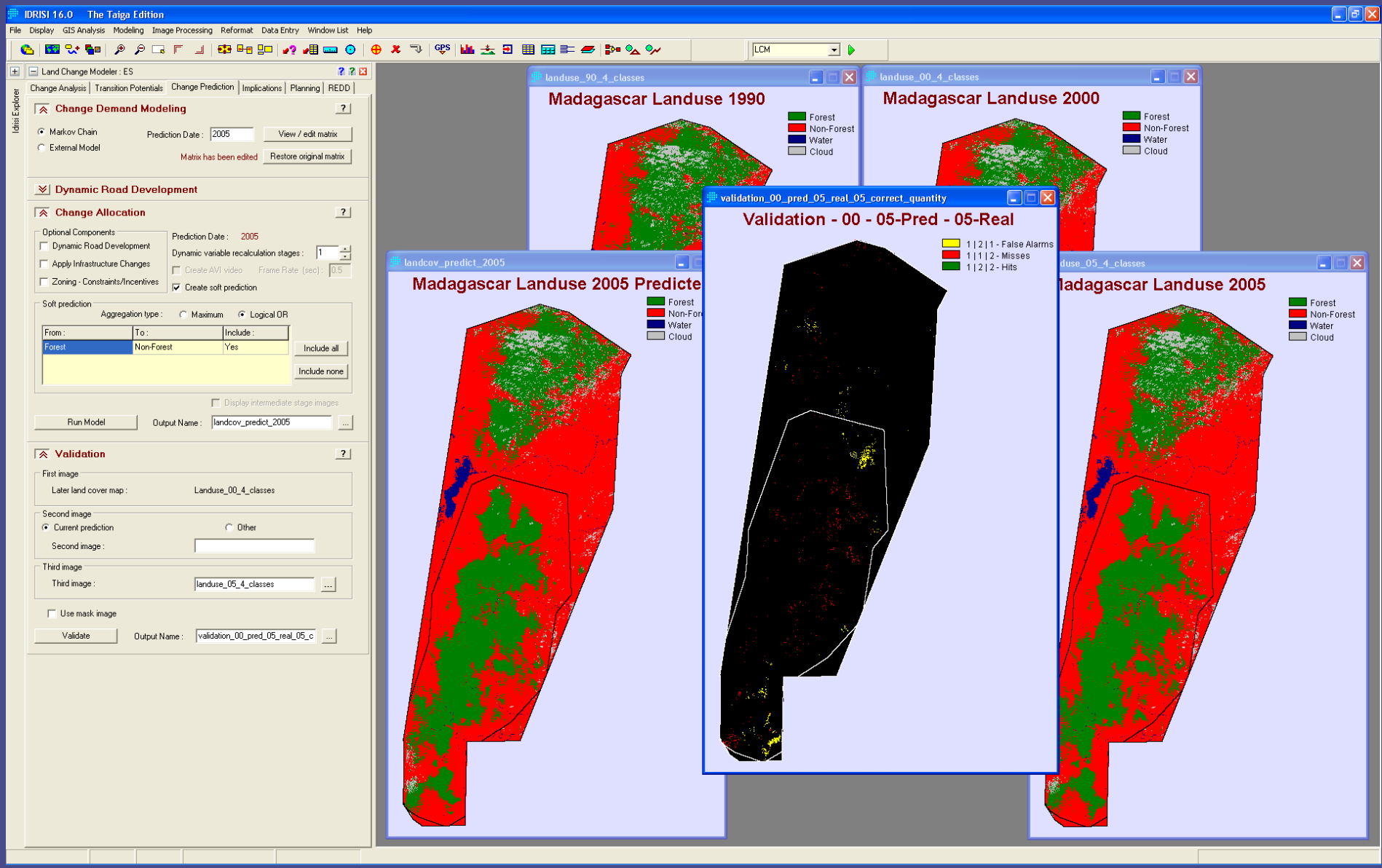
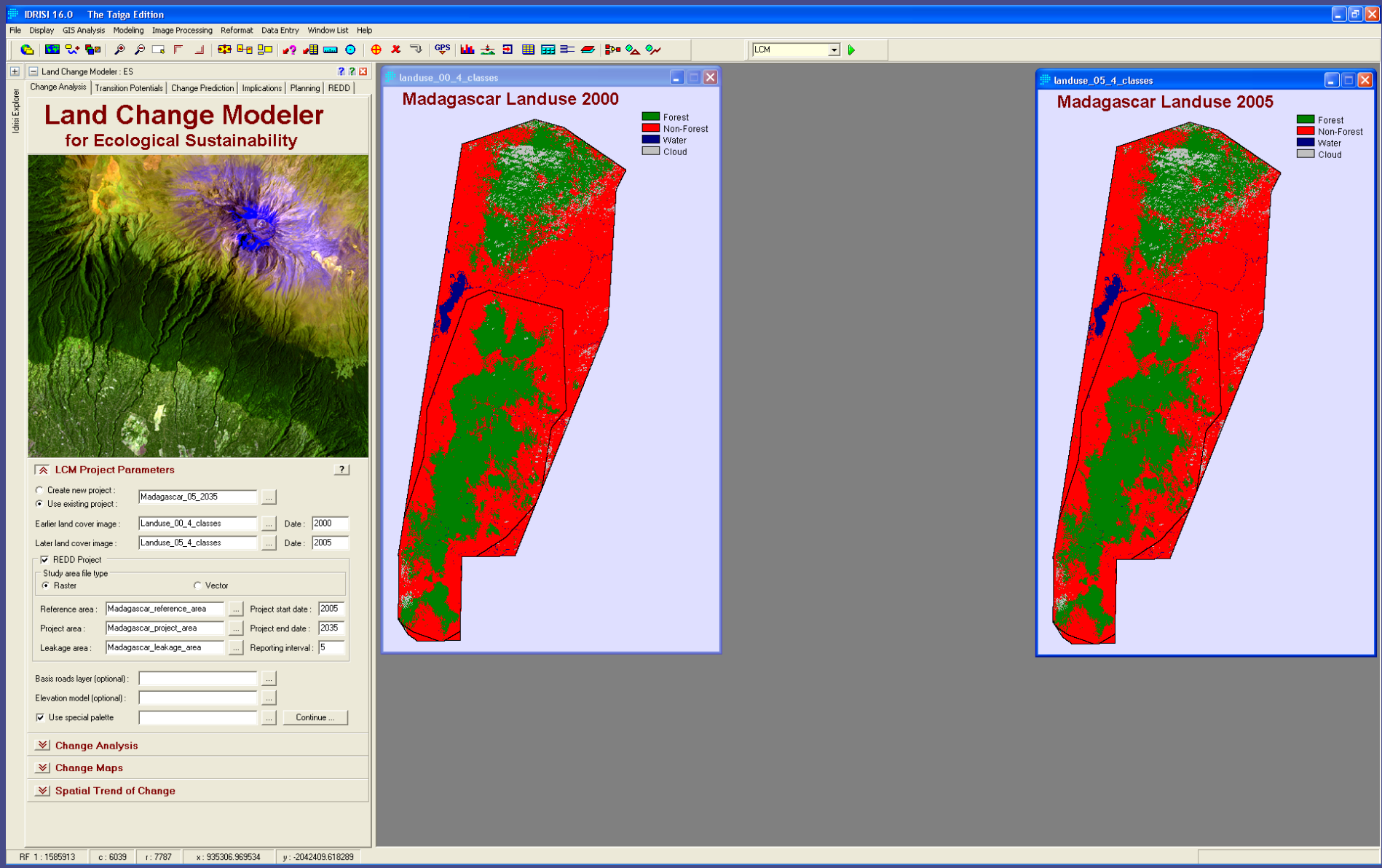


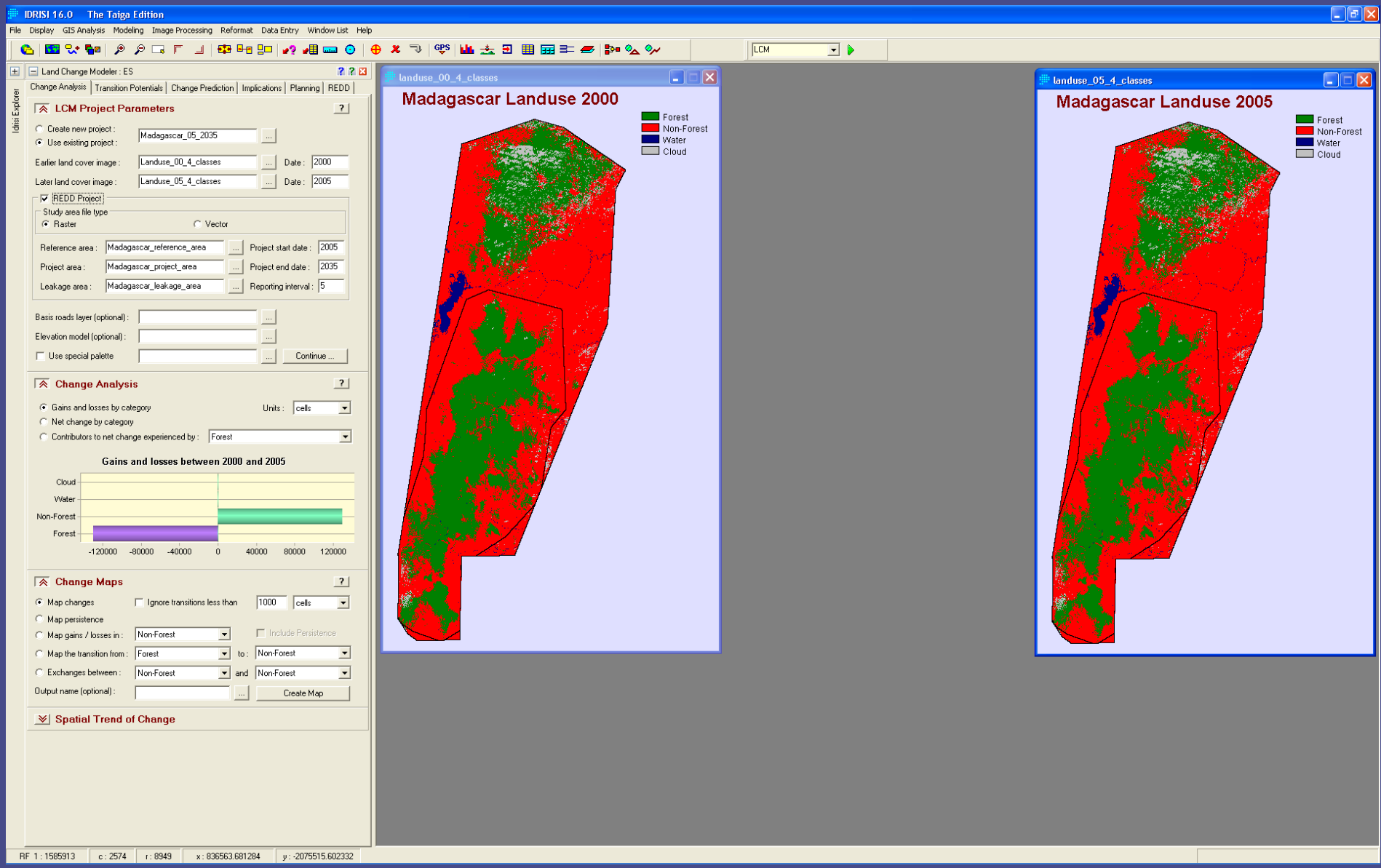
Change Prediction – Validation



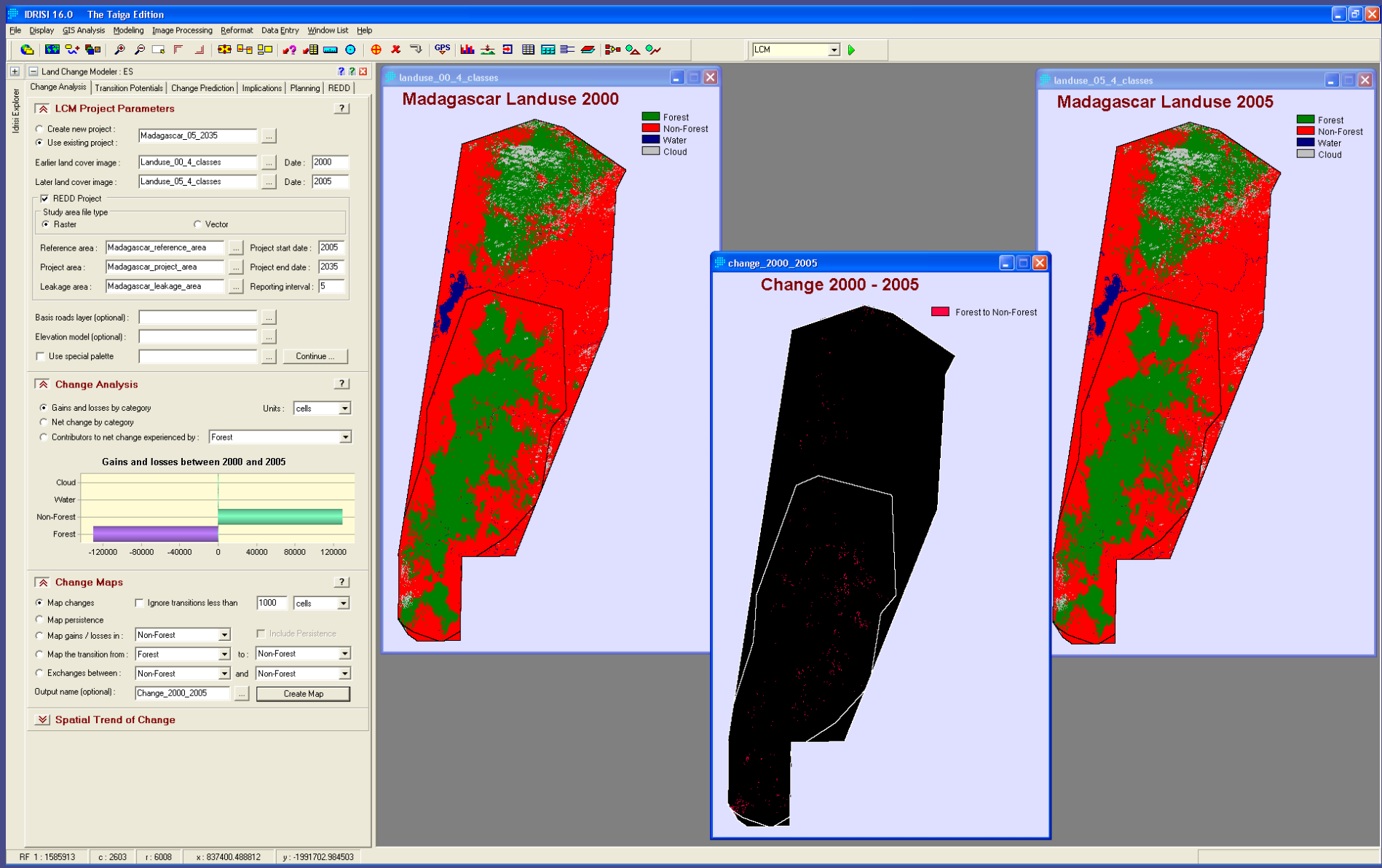
Change Analysis – Project Parameters



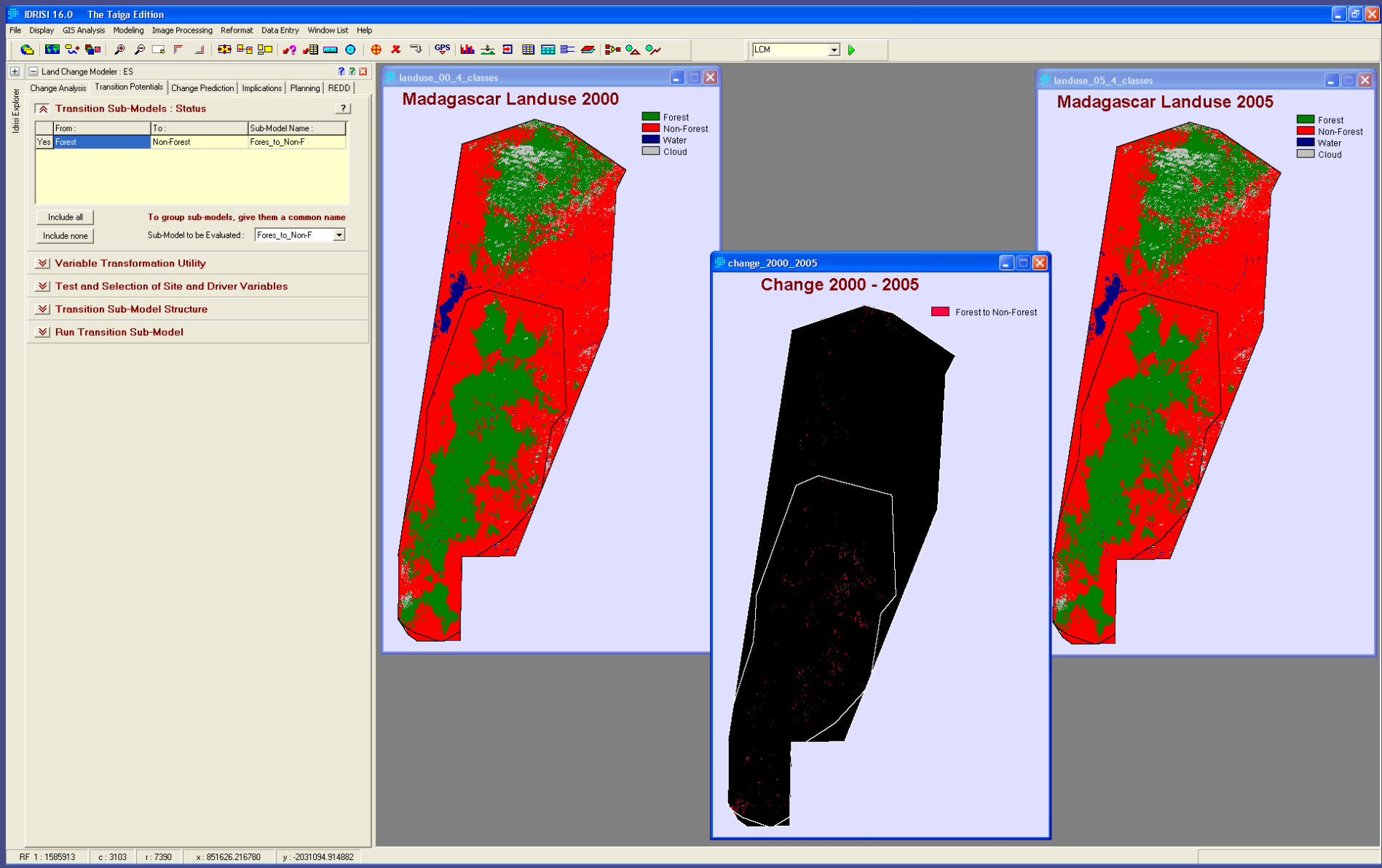
Change Analysis – Change Analysis



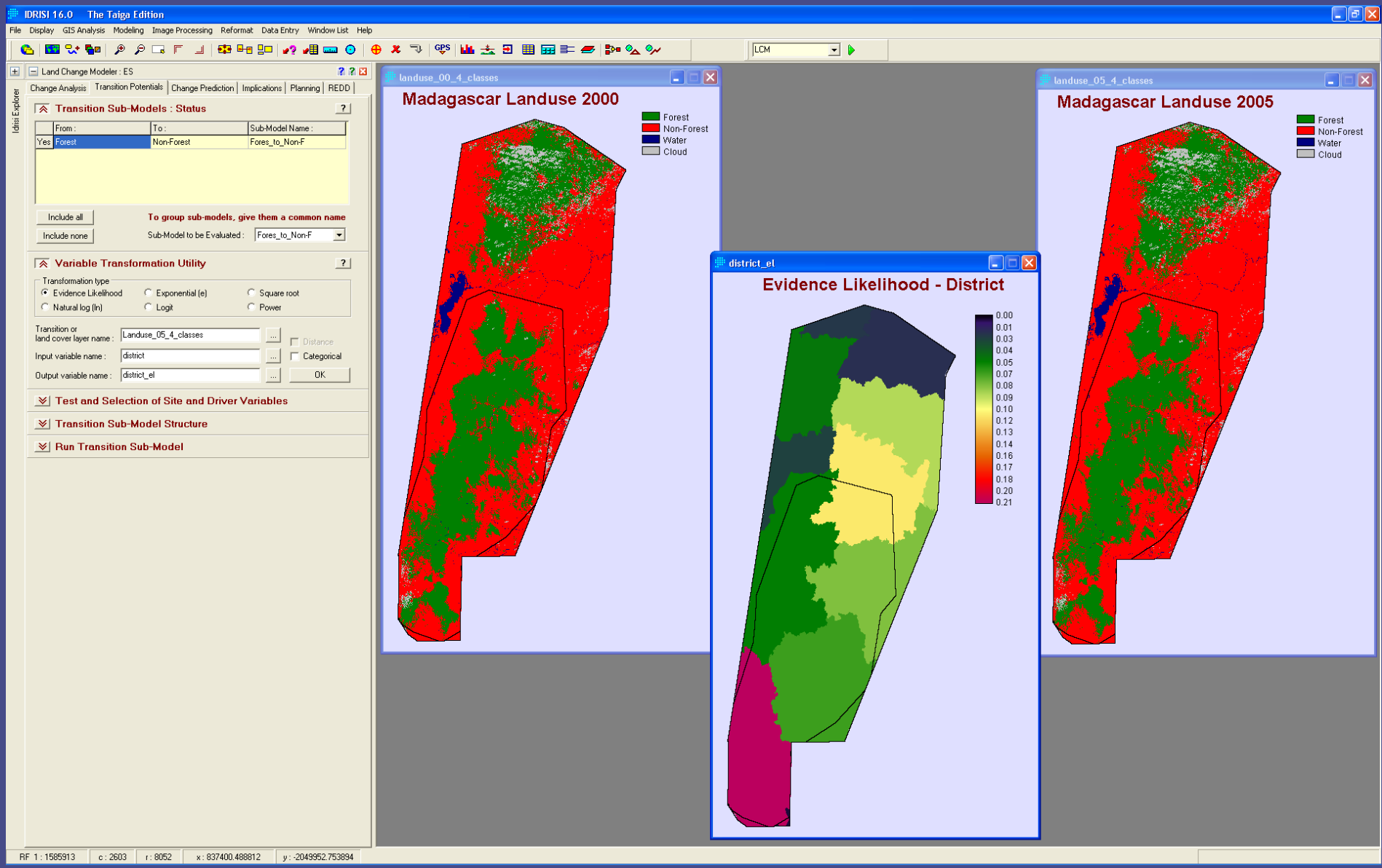
Change Analysis – Change Maps



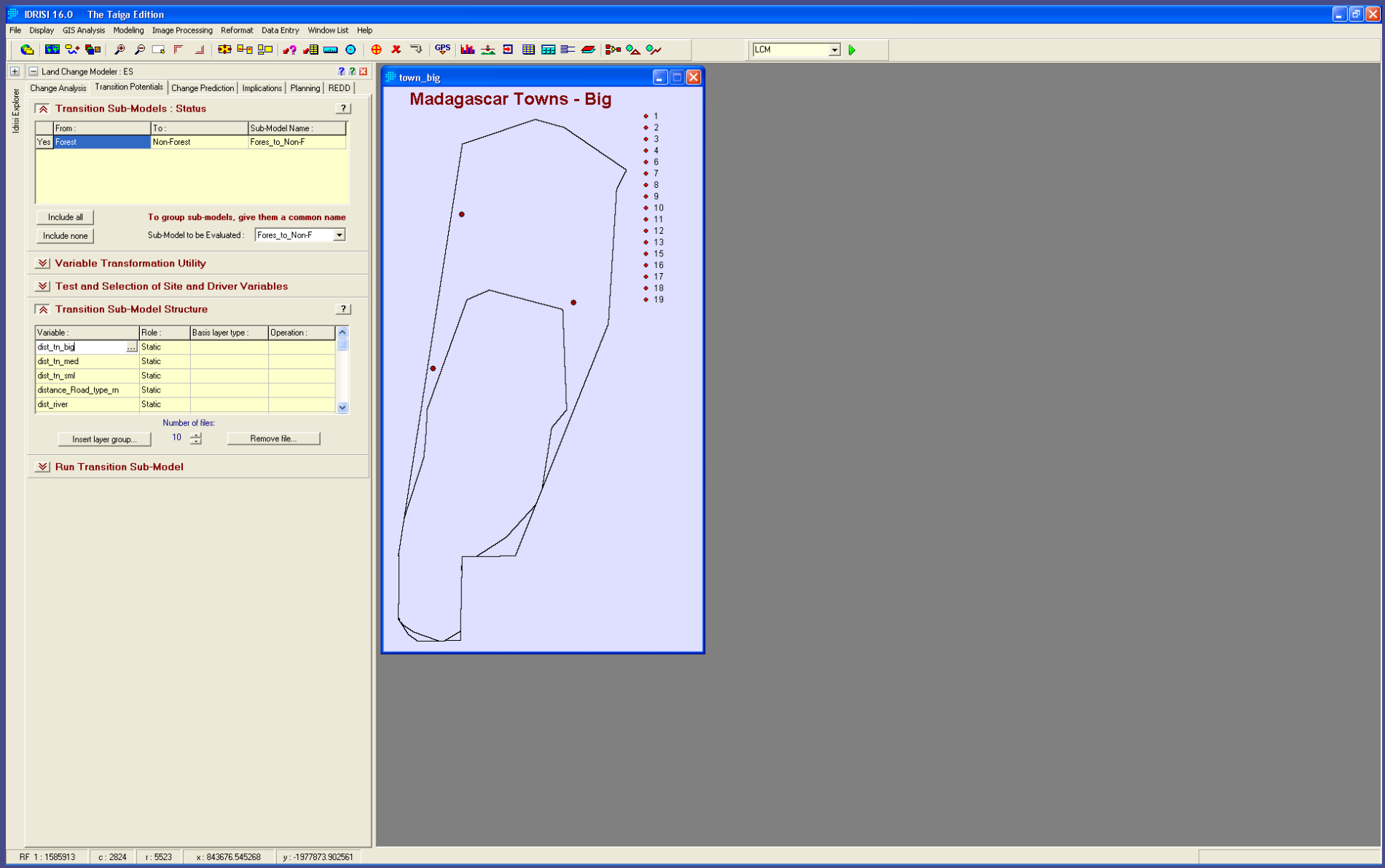
Transition Potential – Transition Sub-Models



Transition Potential – Variable Transformation



Transition Potential – Variable Development



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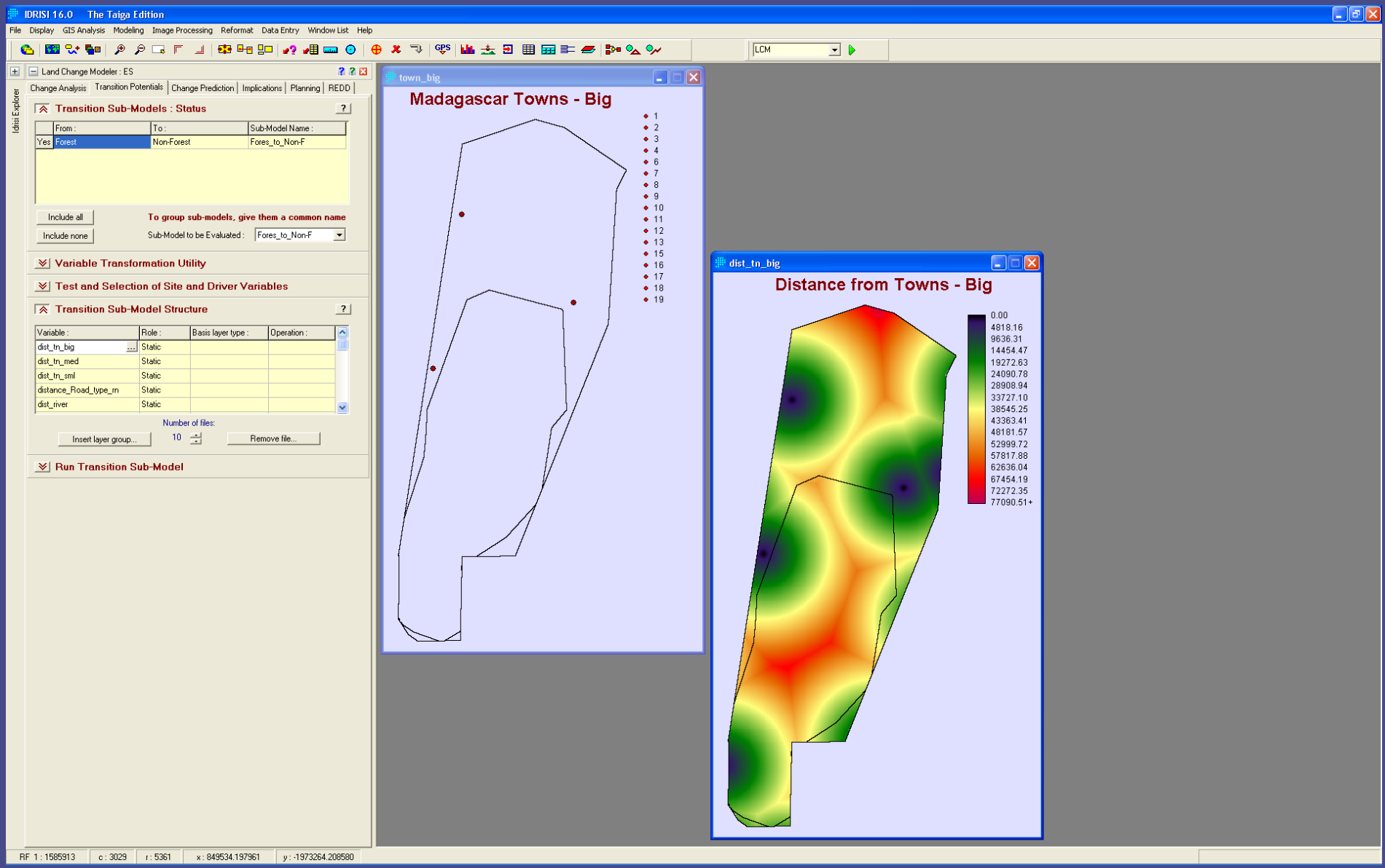

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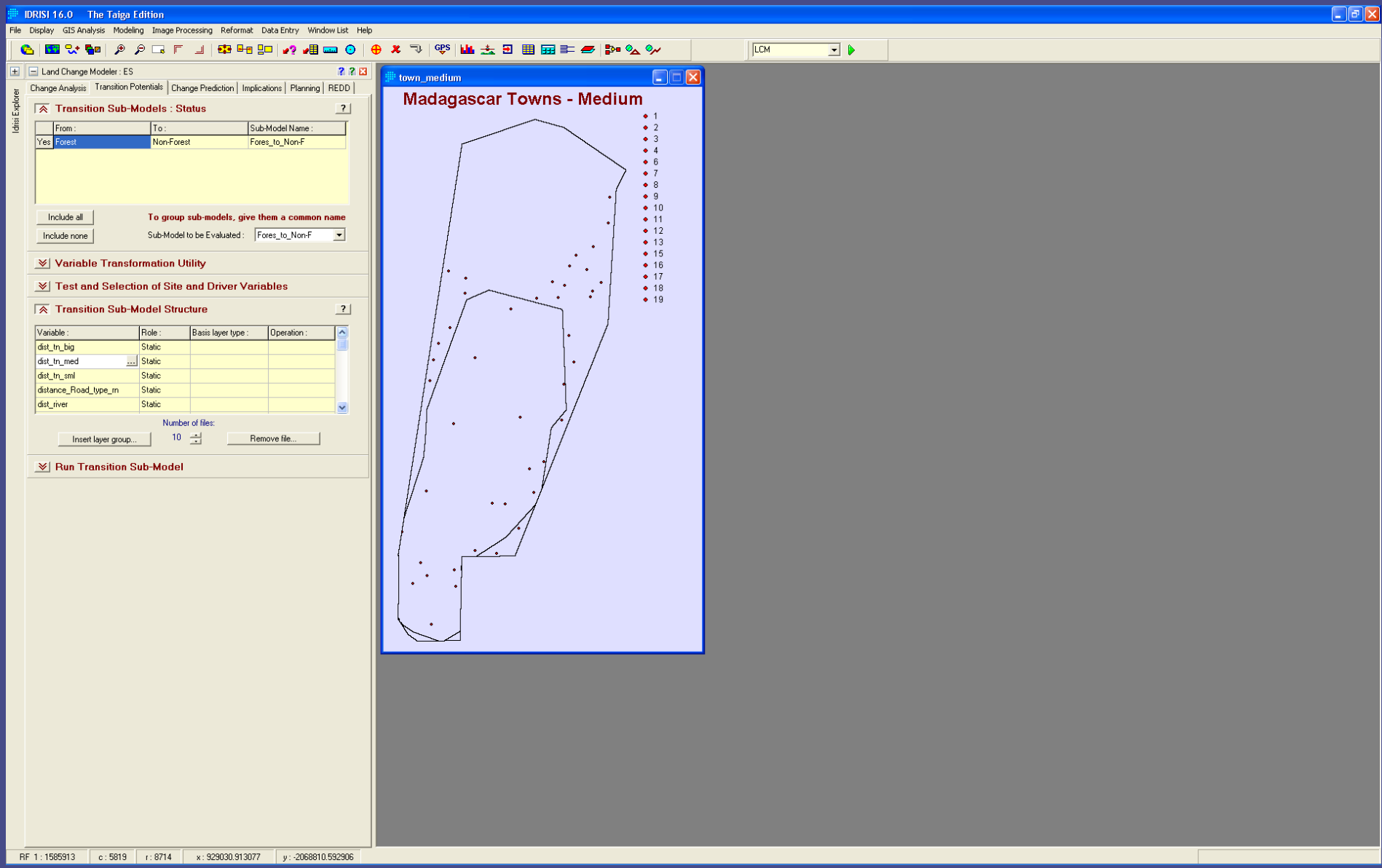

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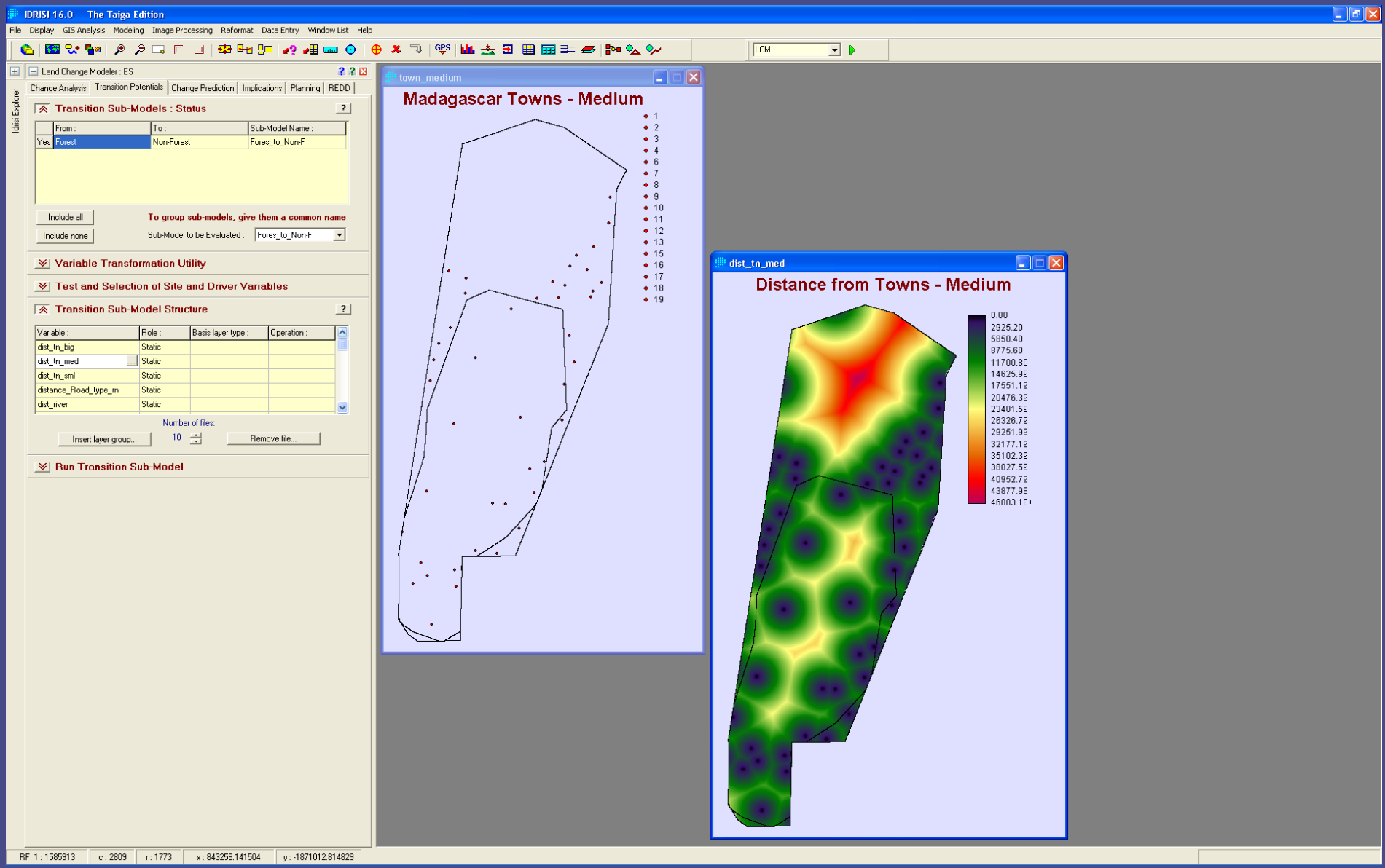

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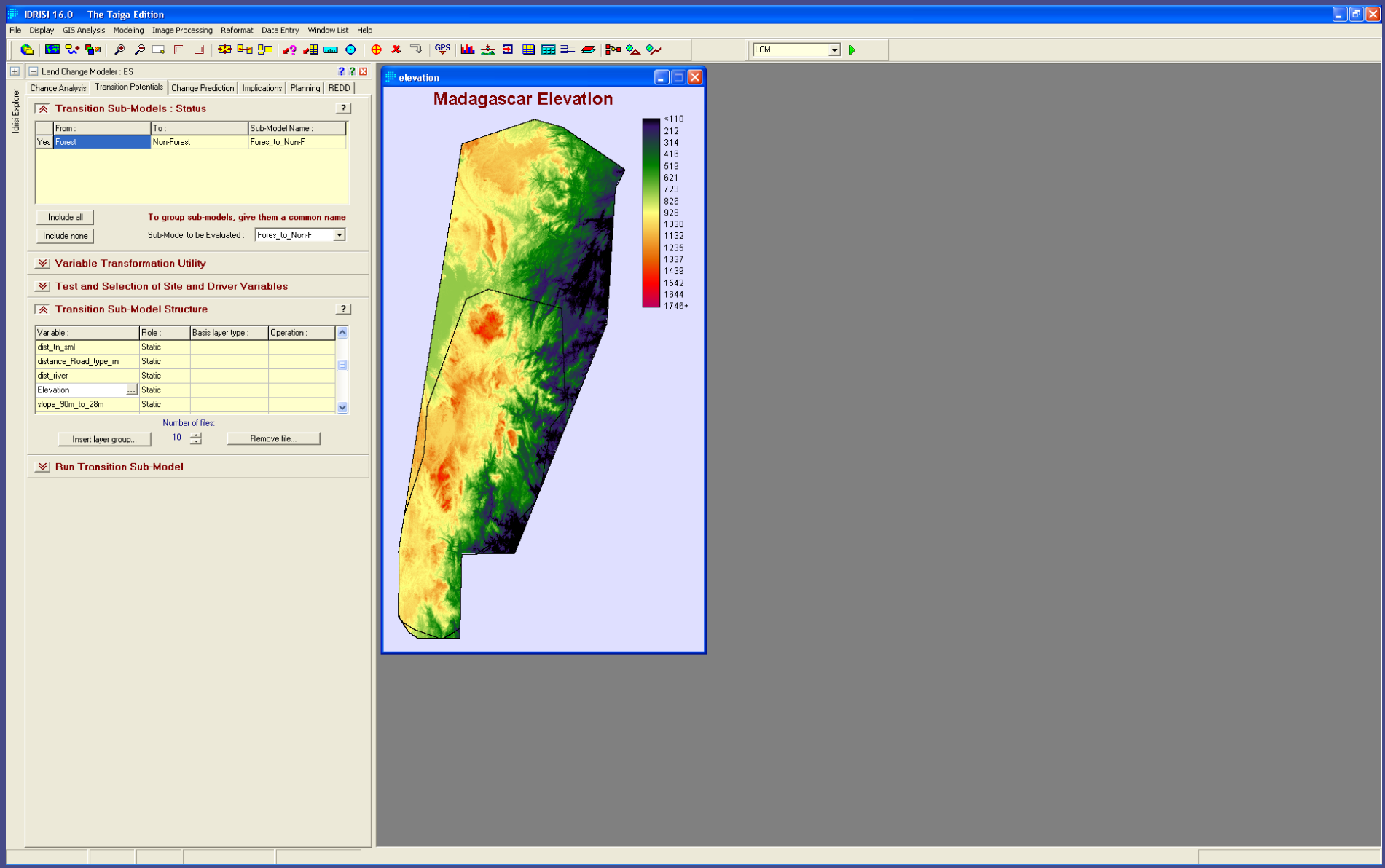

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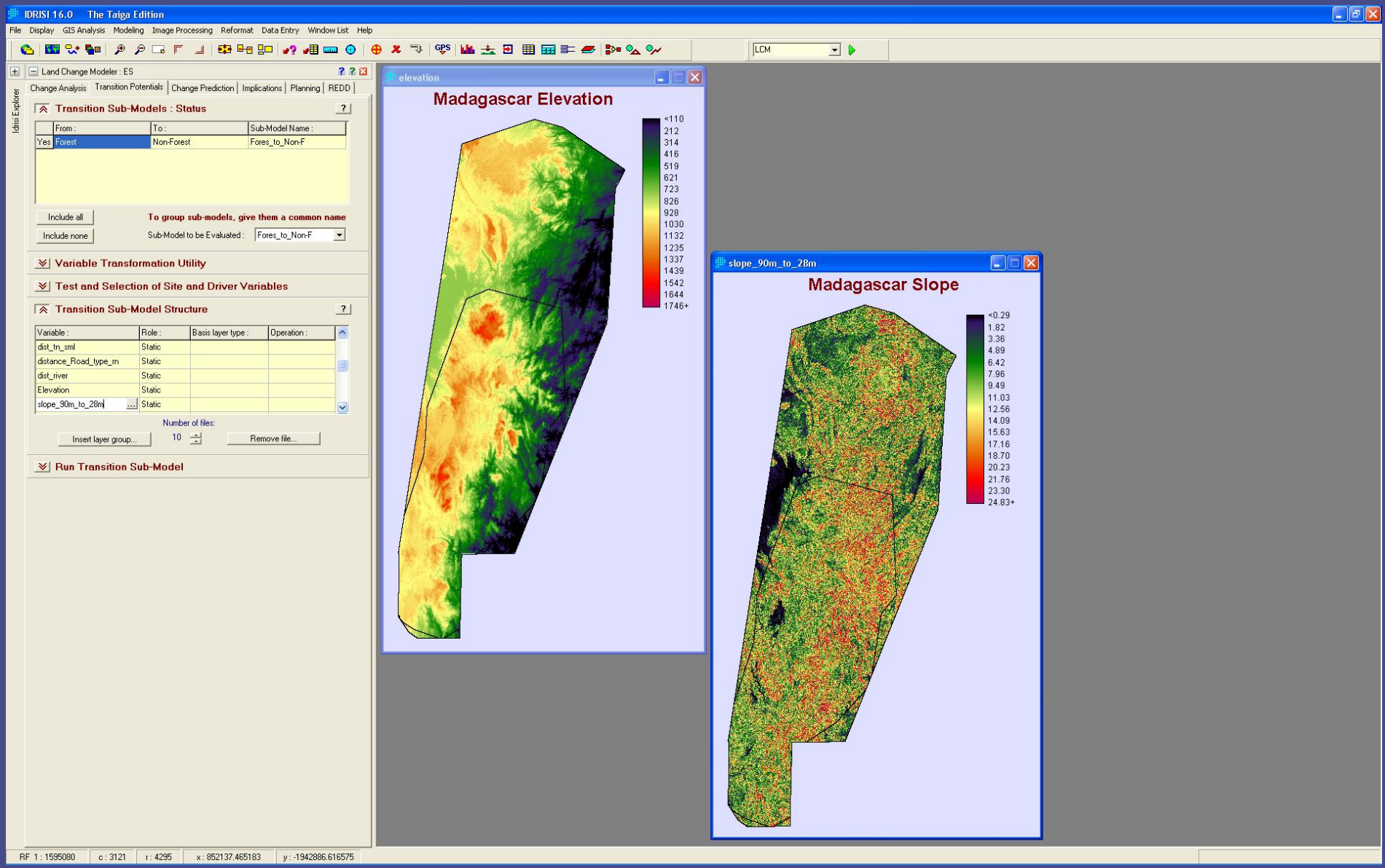
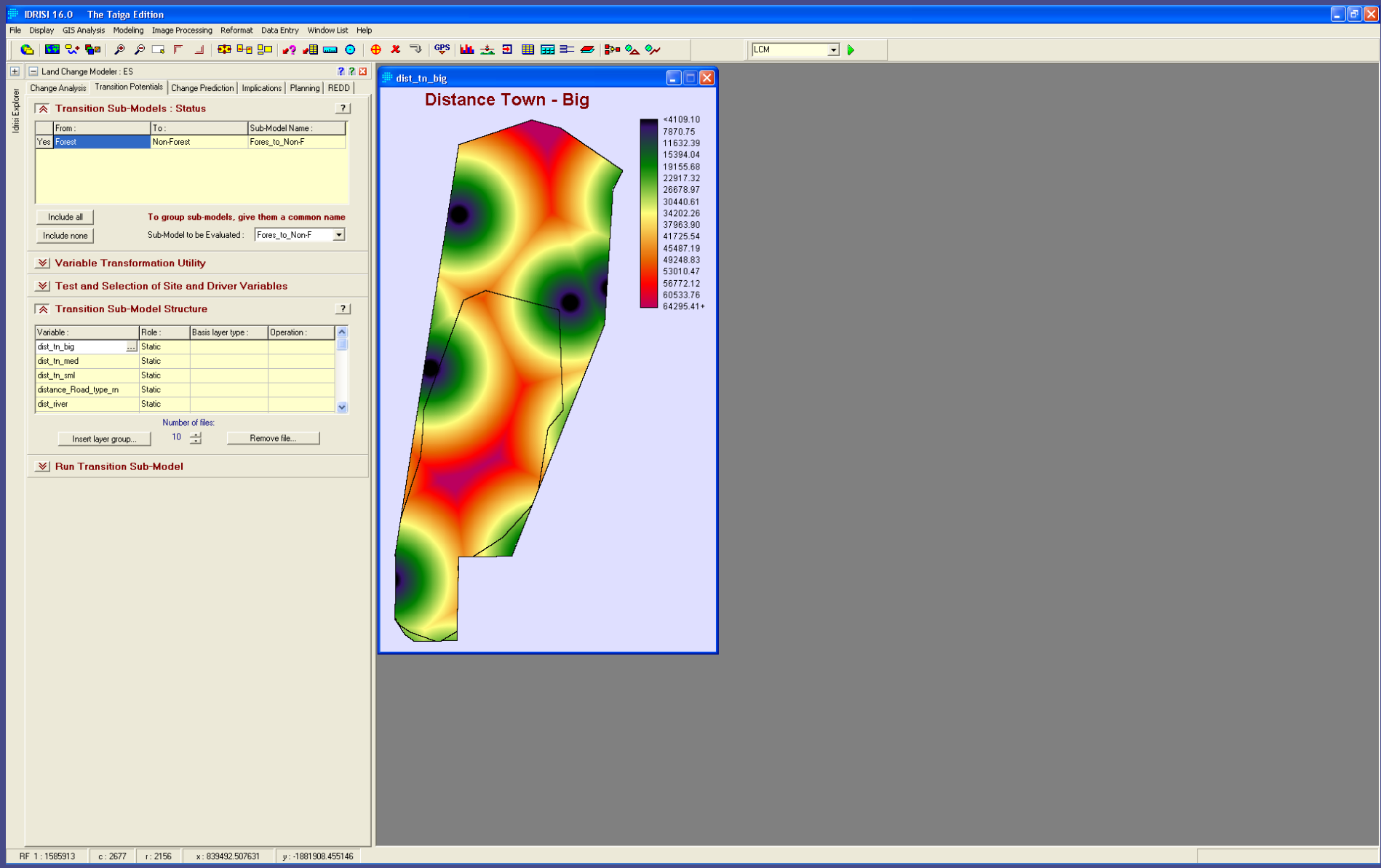


Transition Potential – Transition Sub-Model Structure



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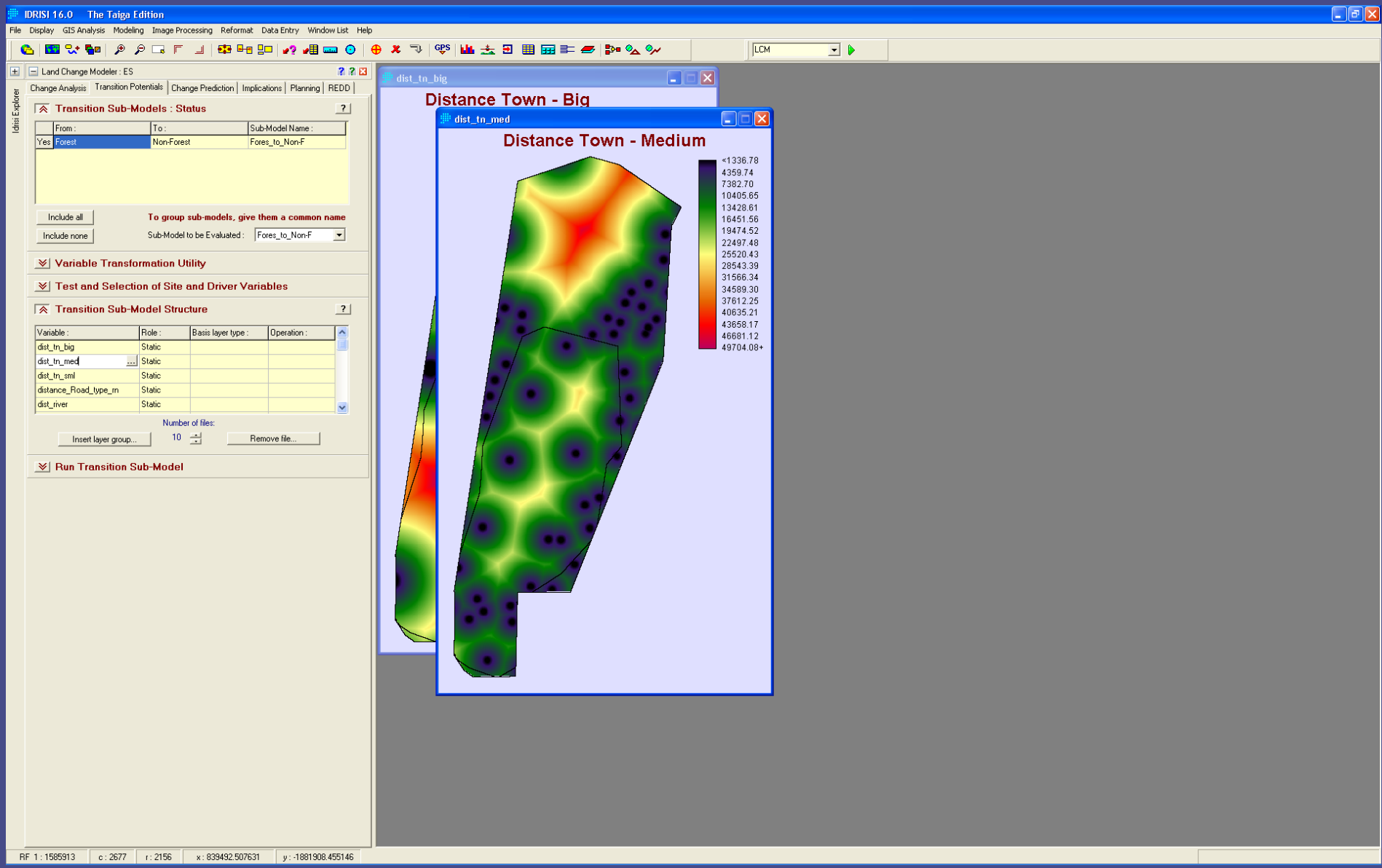

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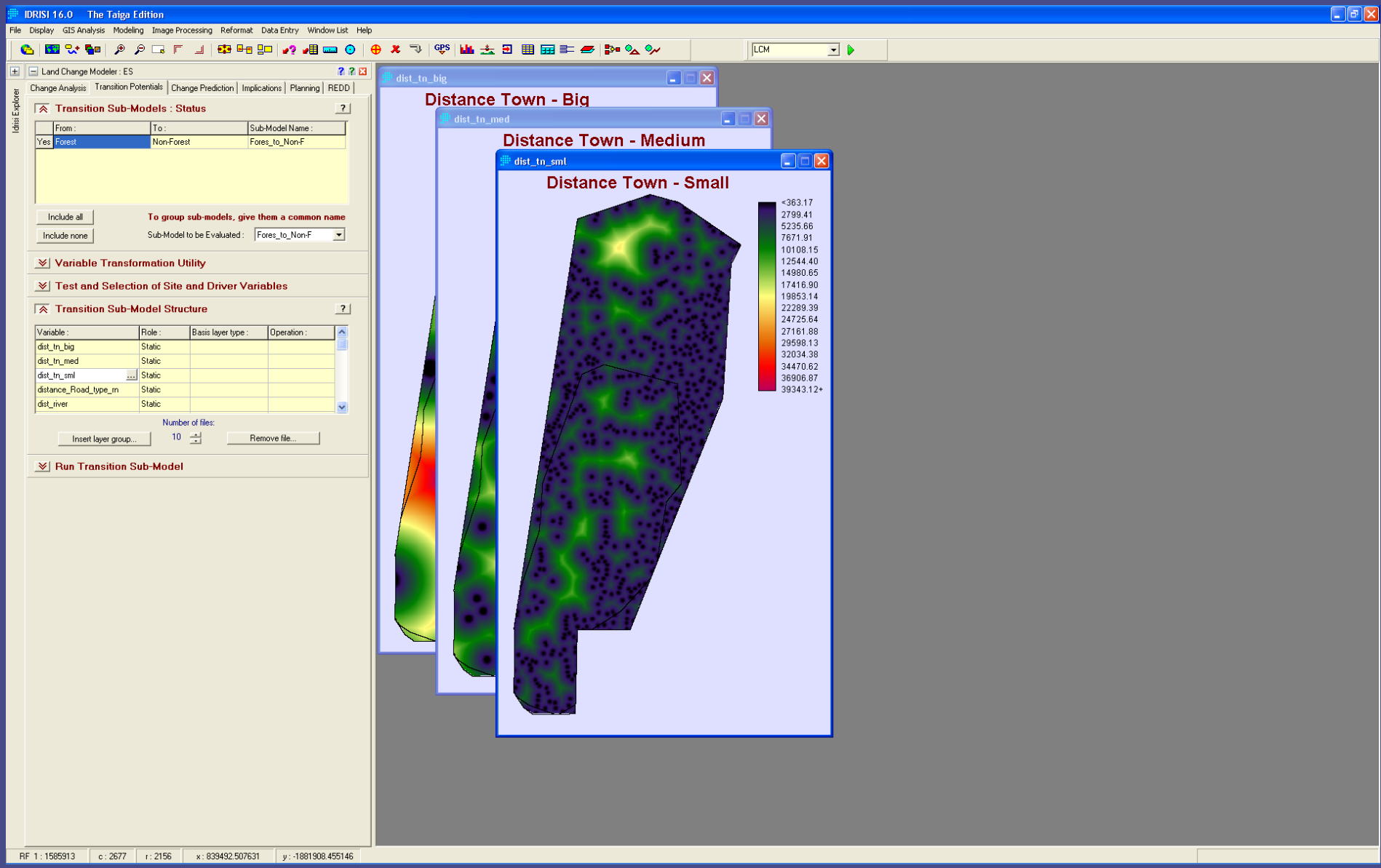

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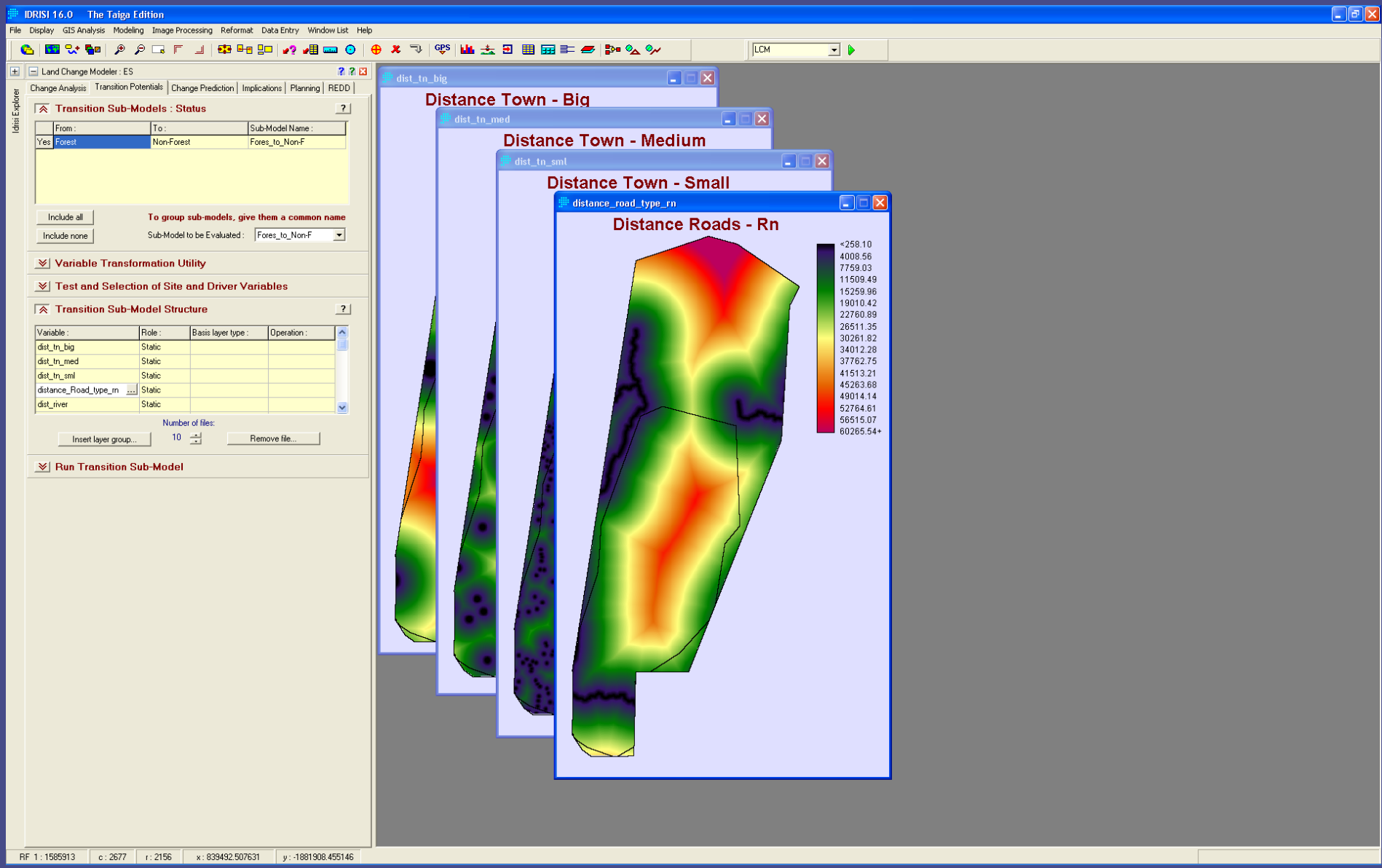

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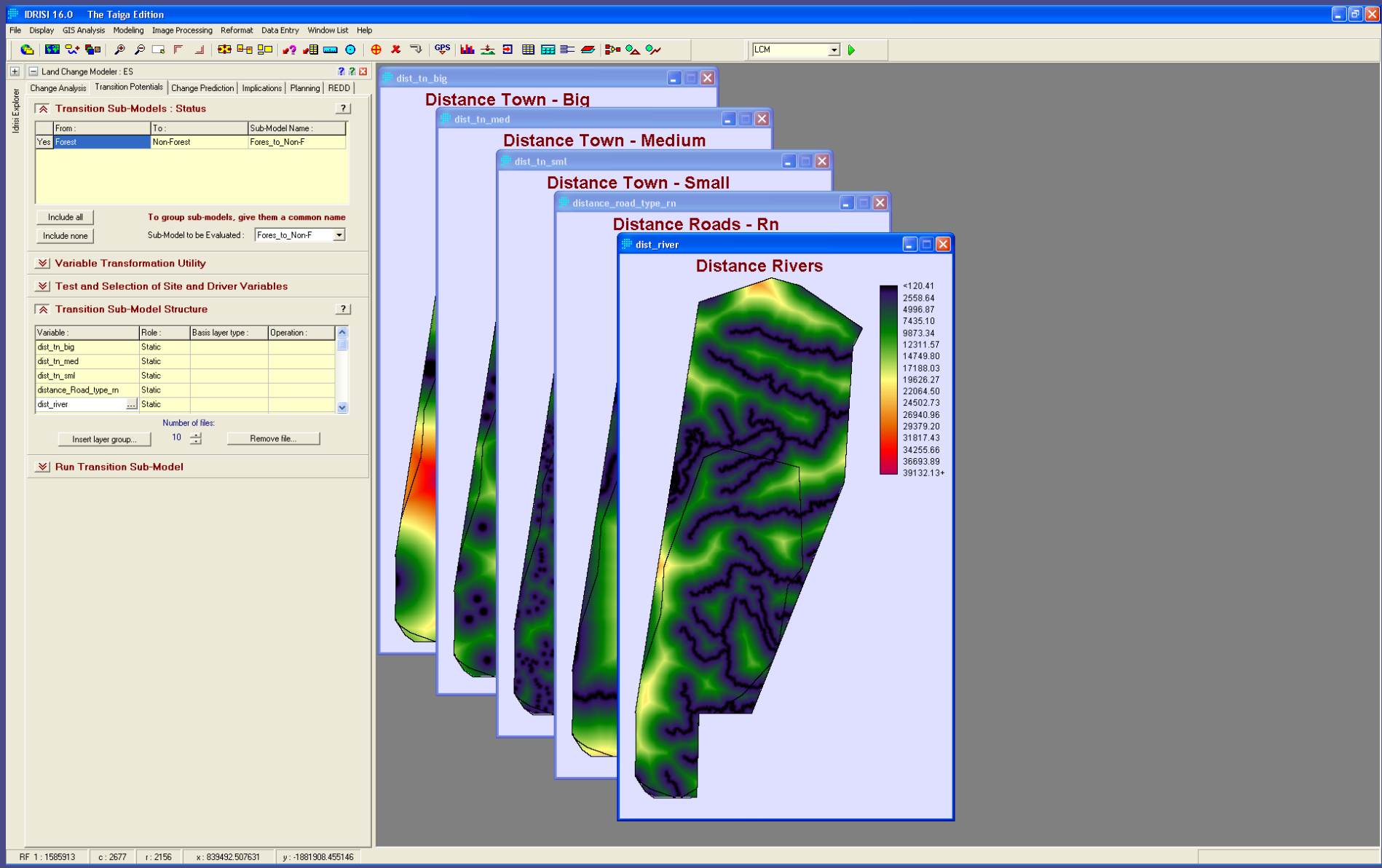

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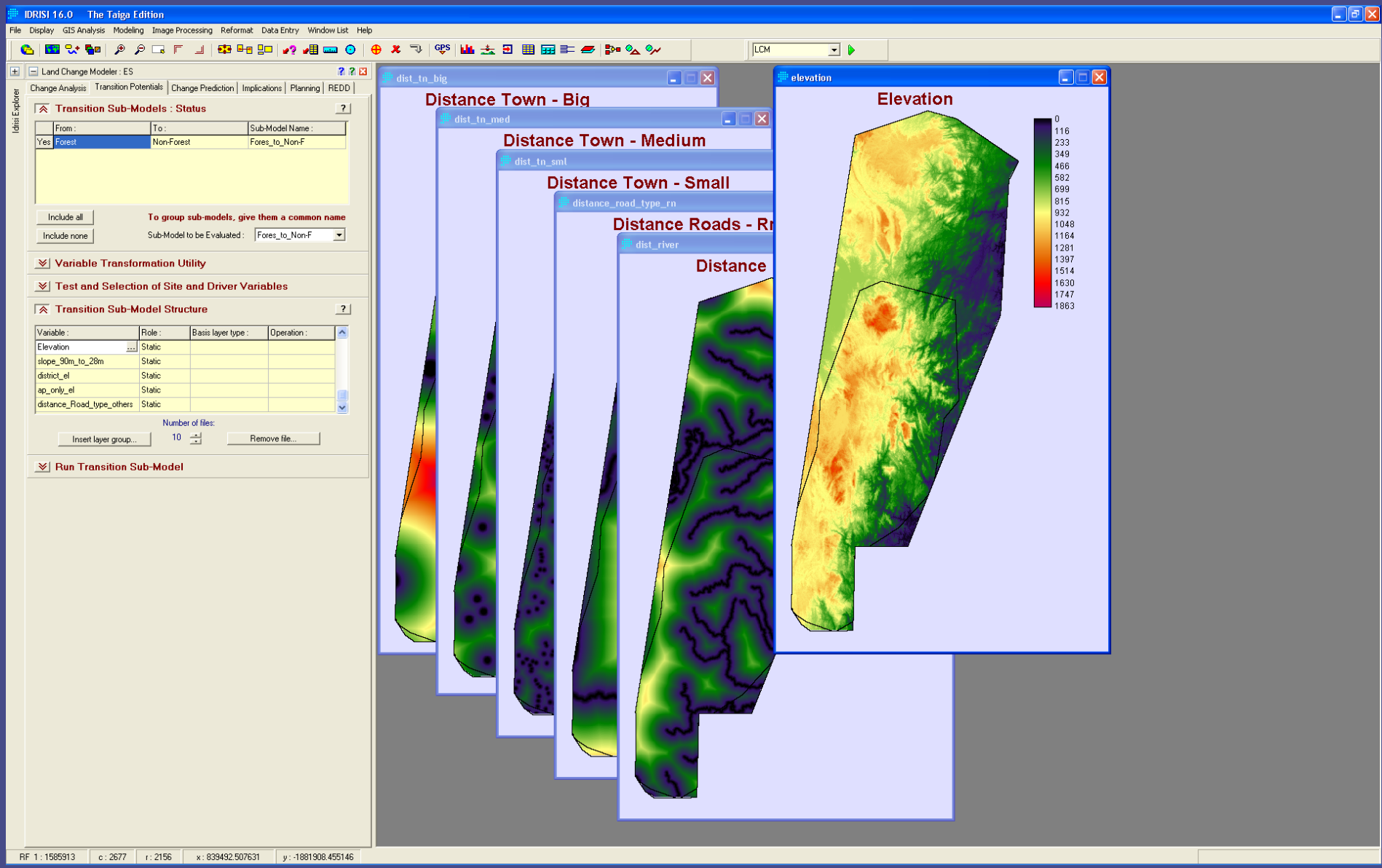

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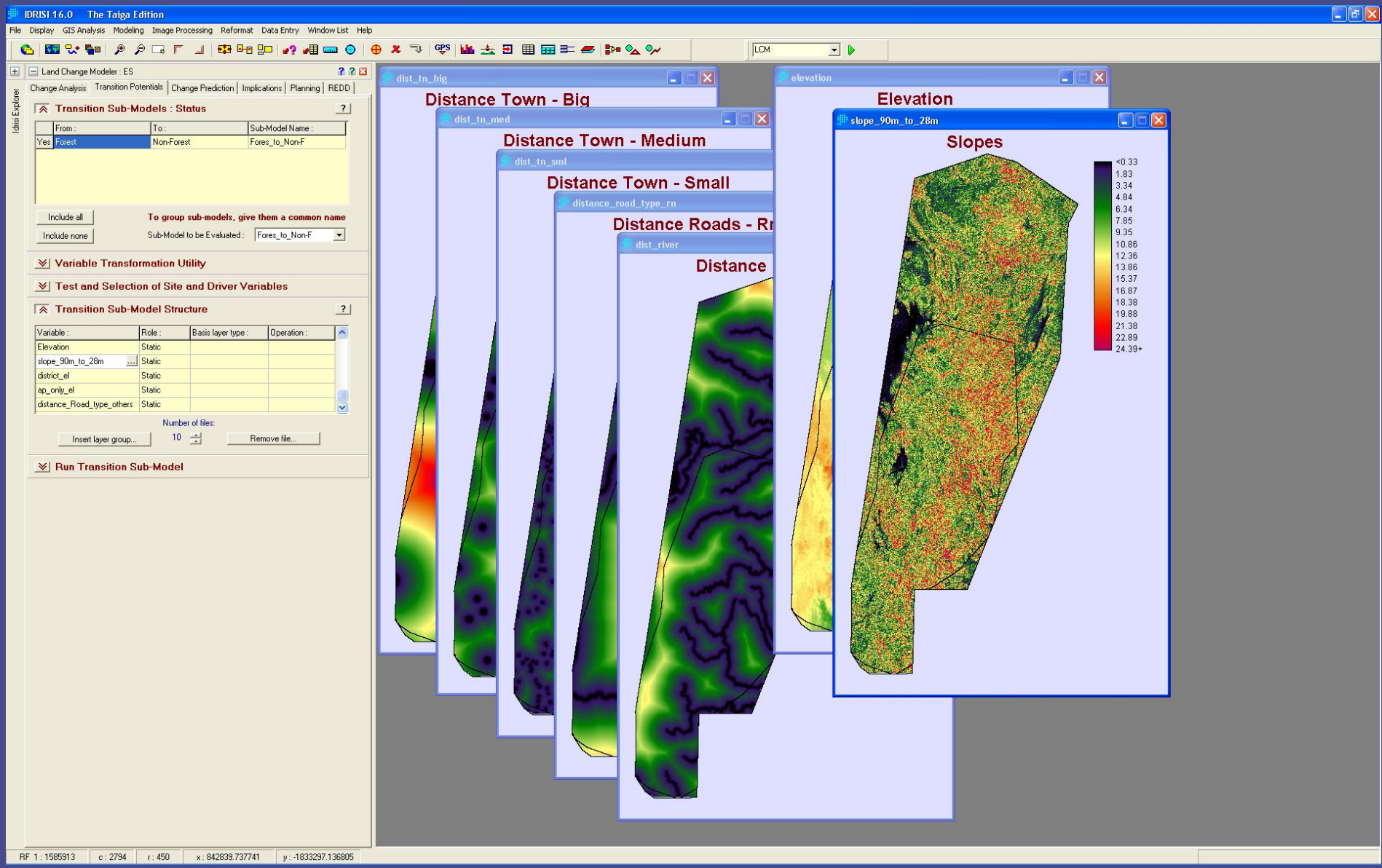

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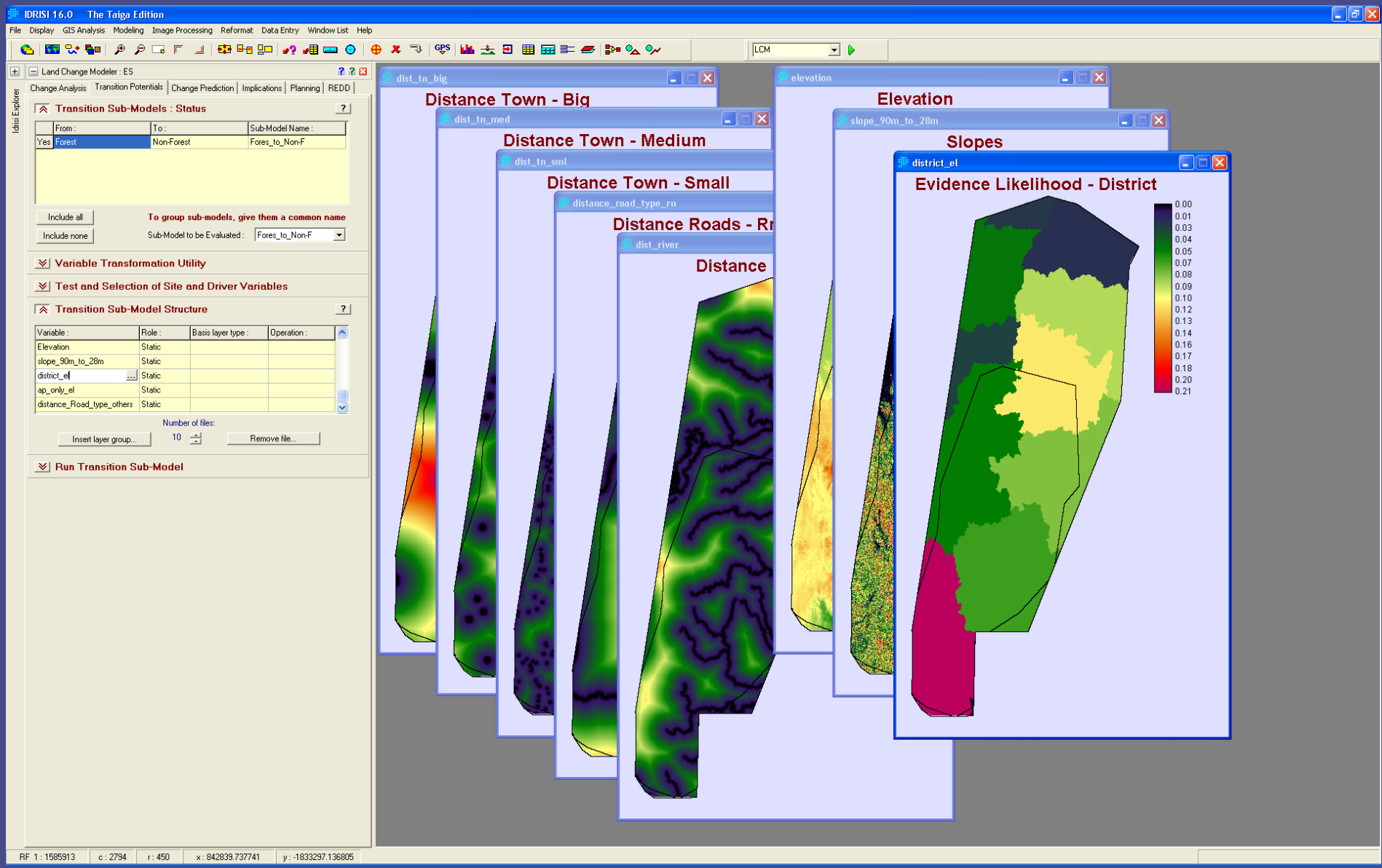

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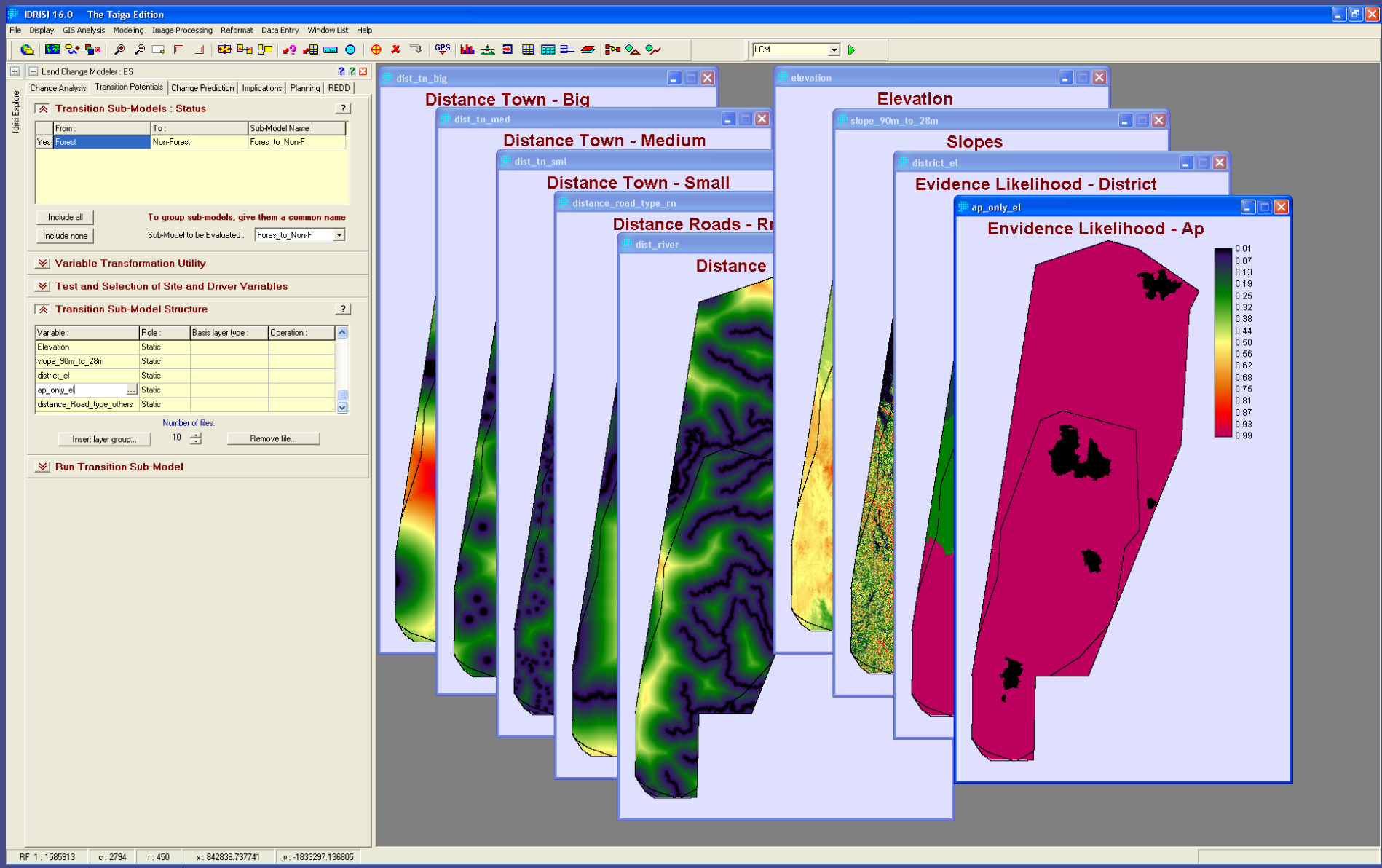

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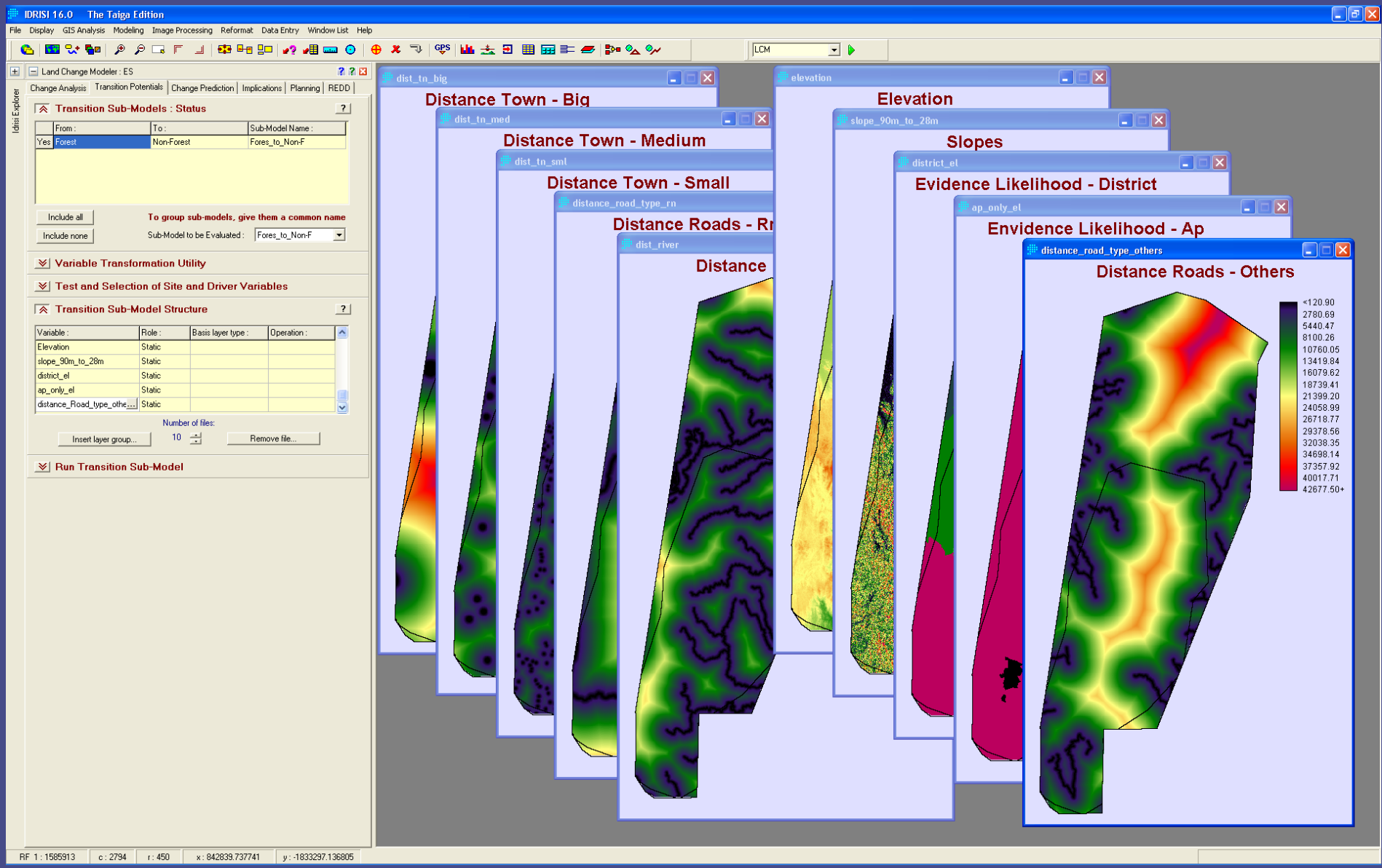
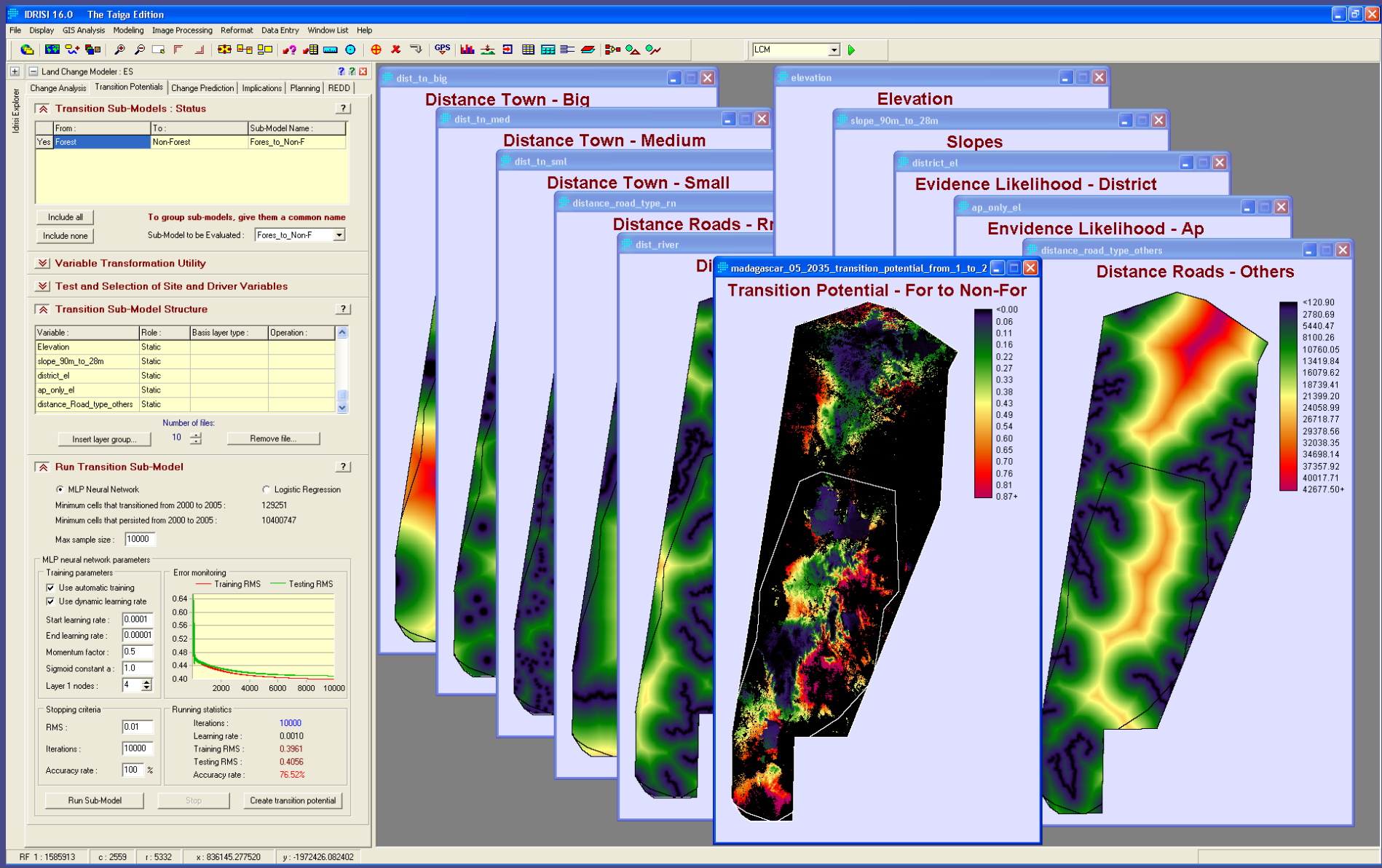
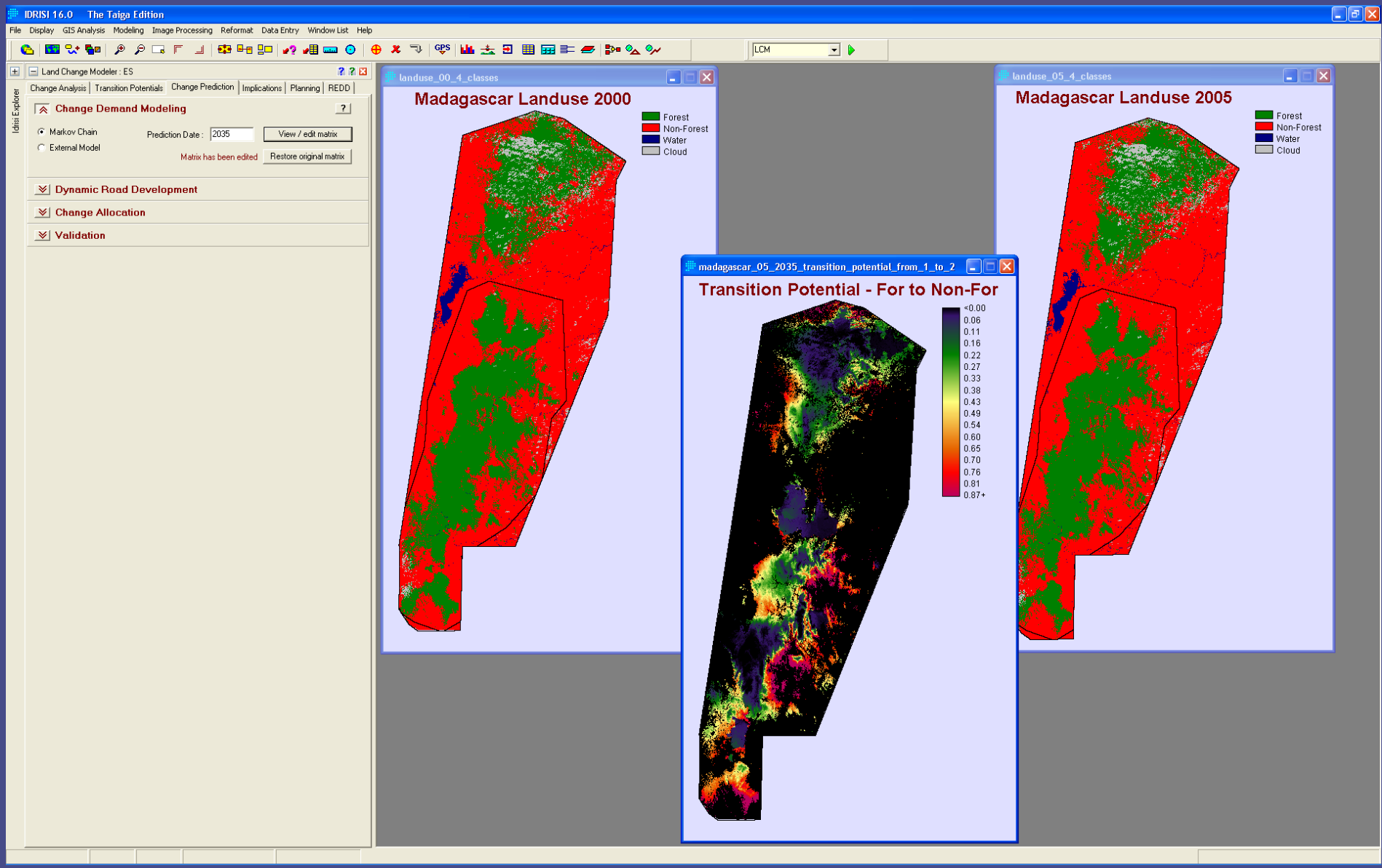


Transition Potential – Run Transition Sub-Model



Change Prediction – Change Demand Modeling



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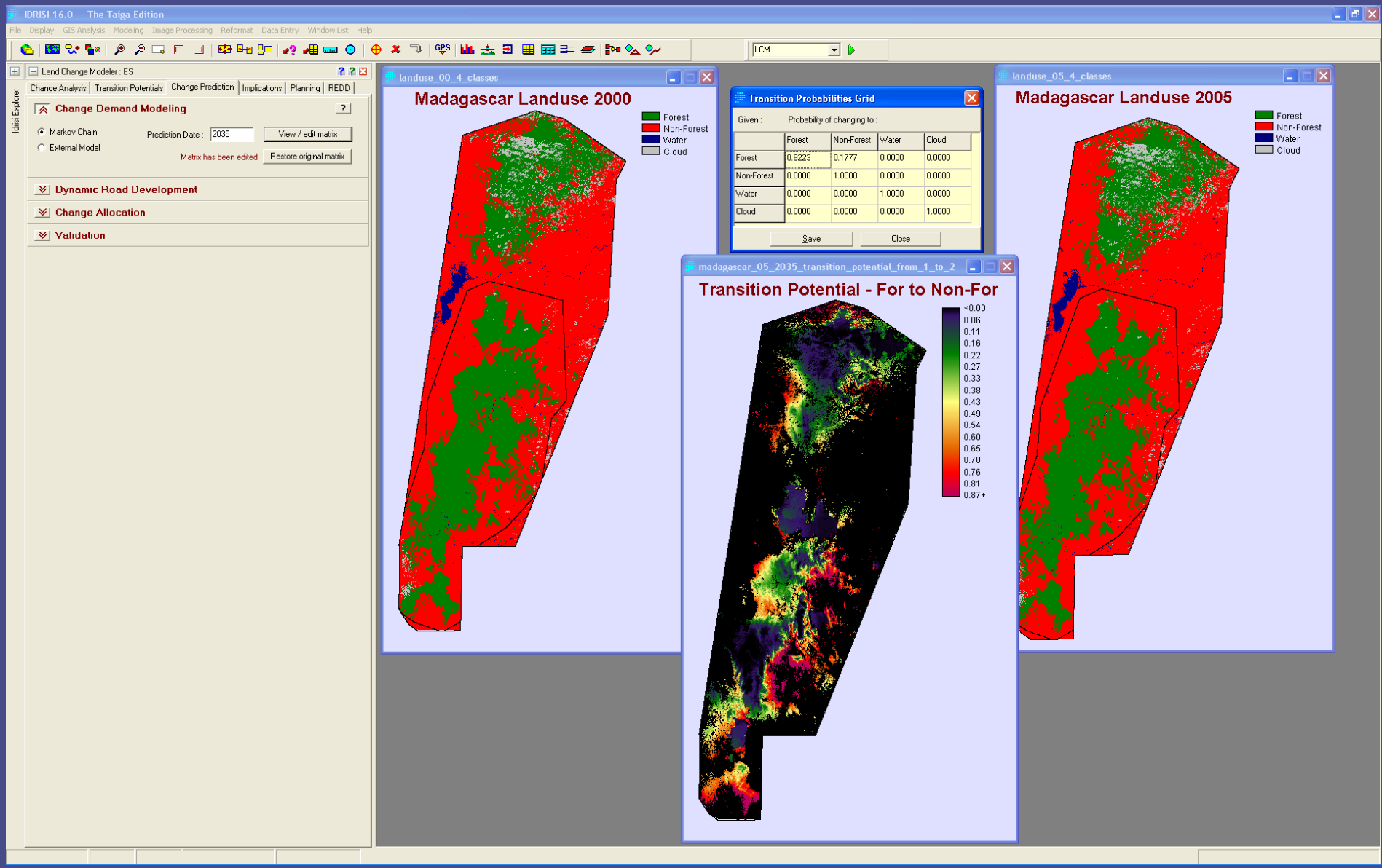
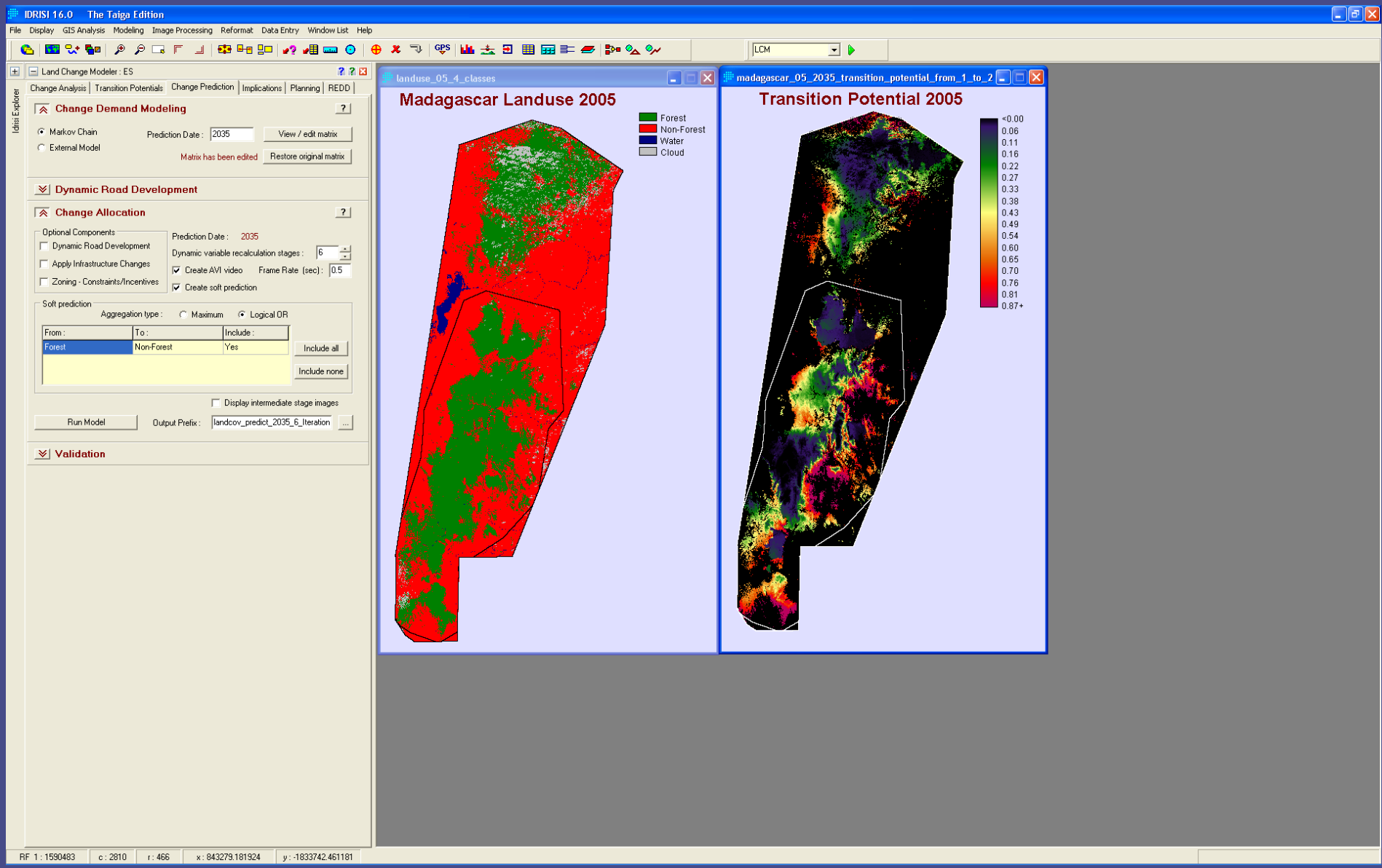


Change Prediction – Change Allocation



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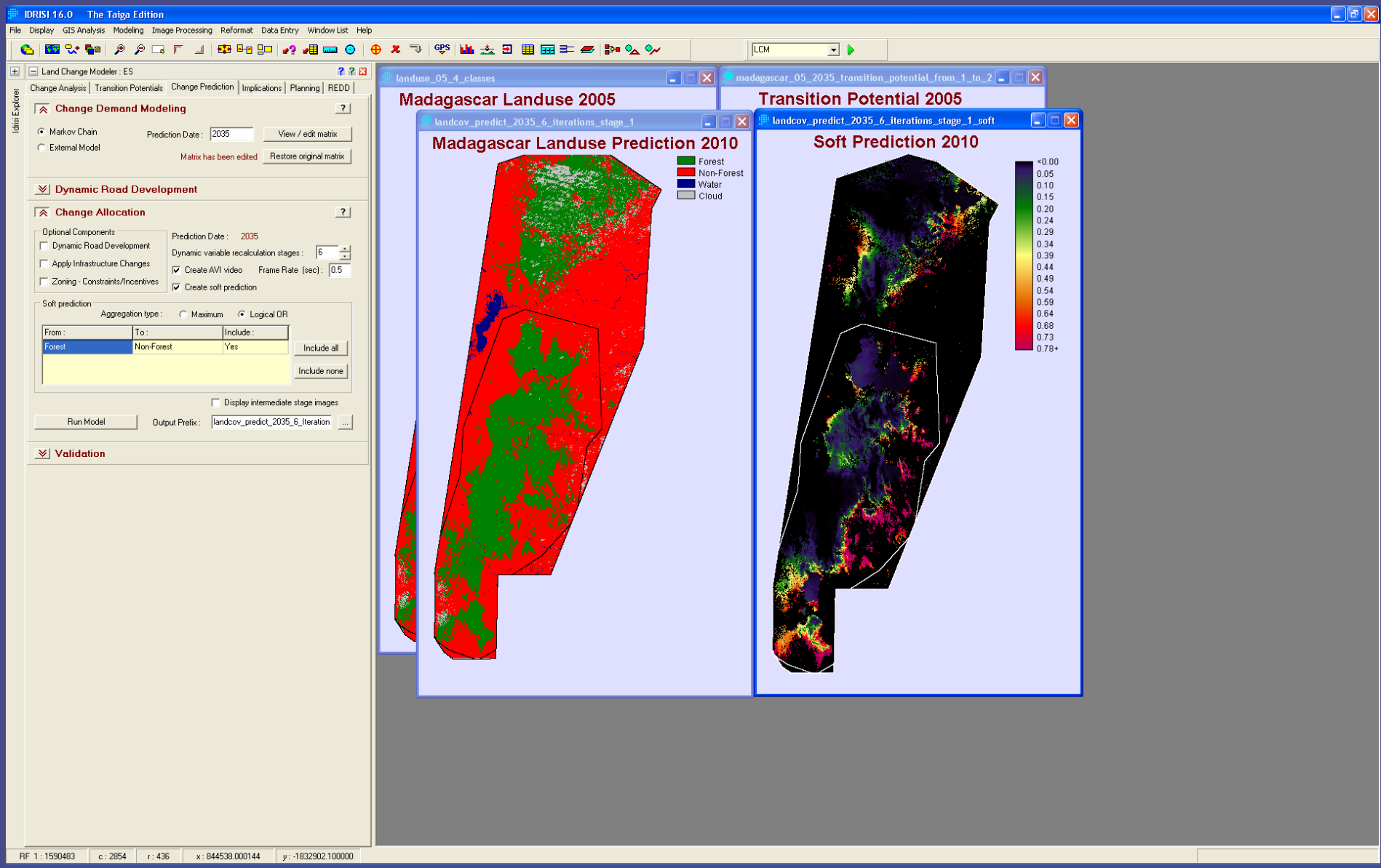

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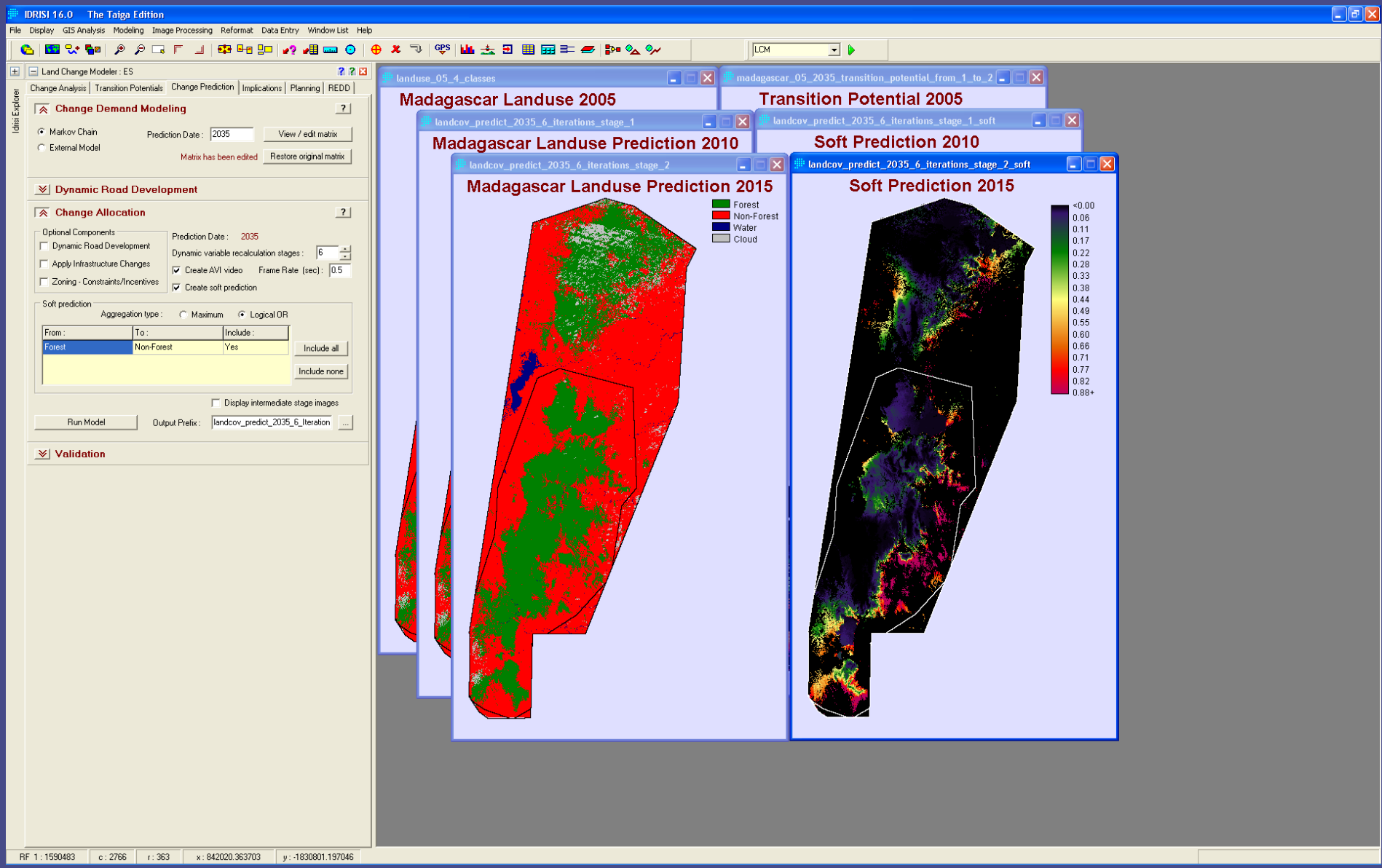

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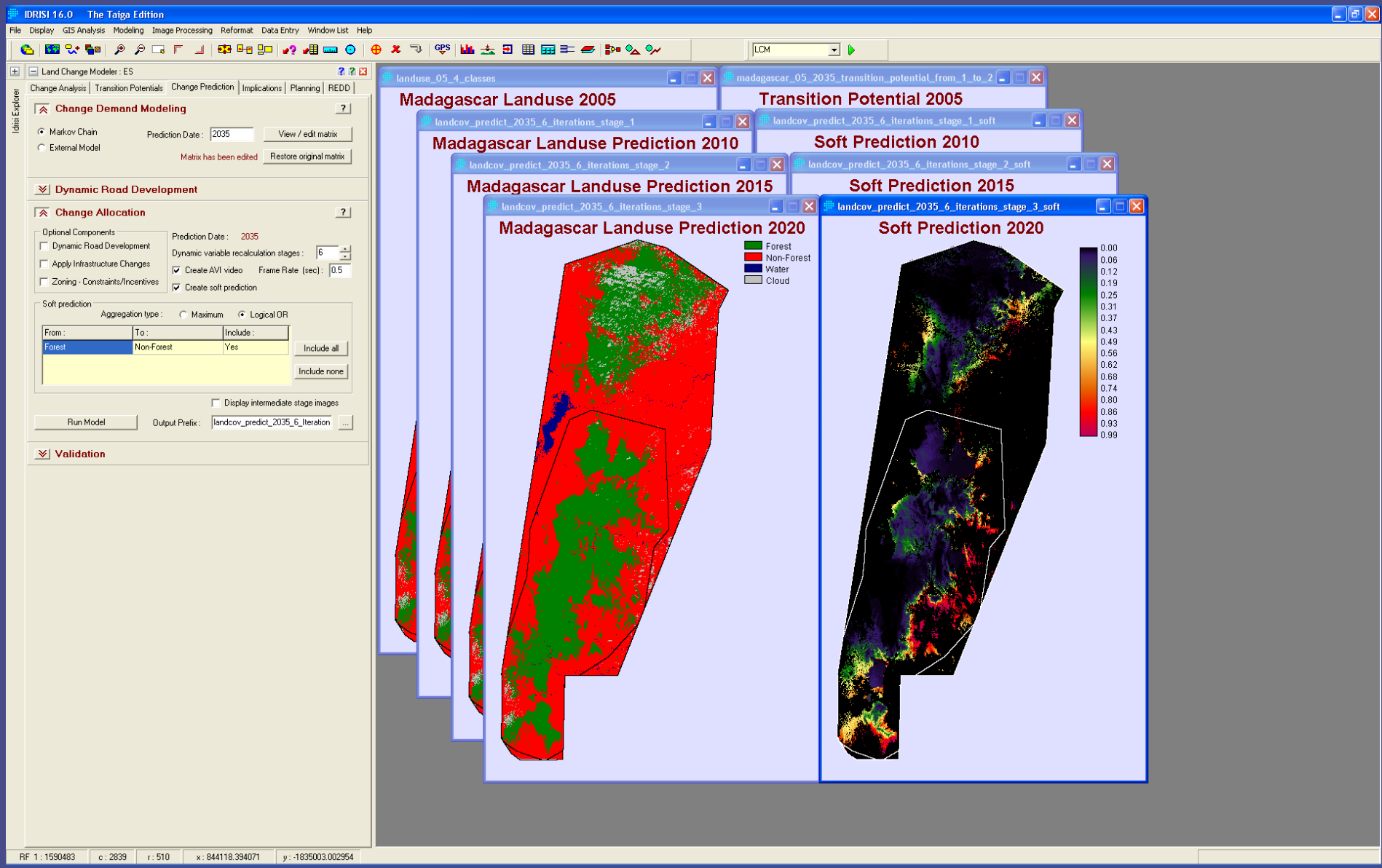

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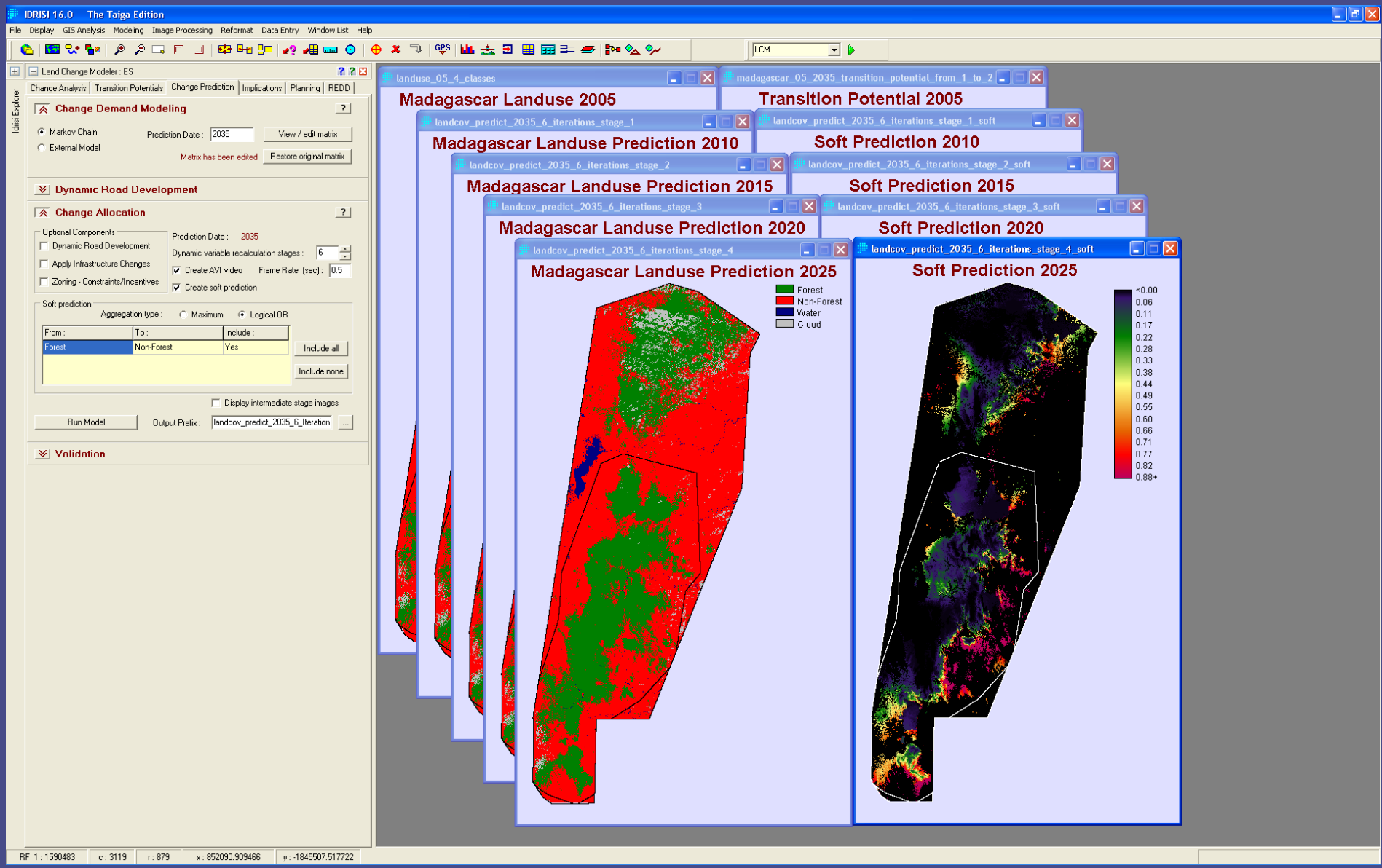

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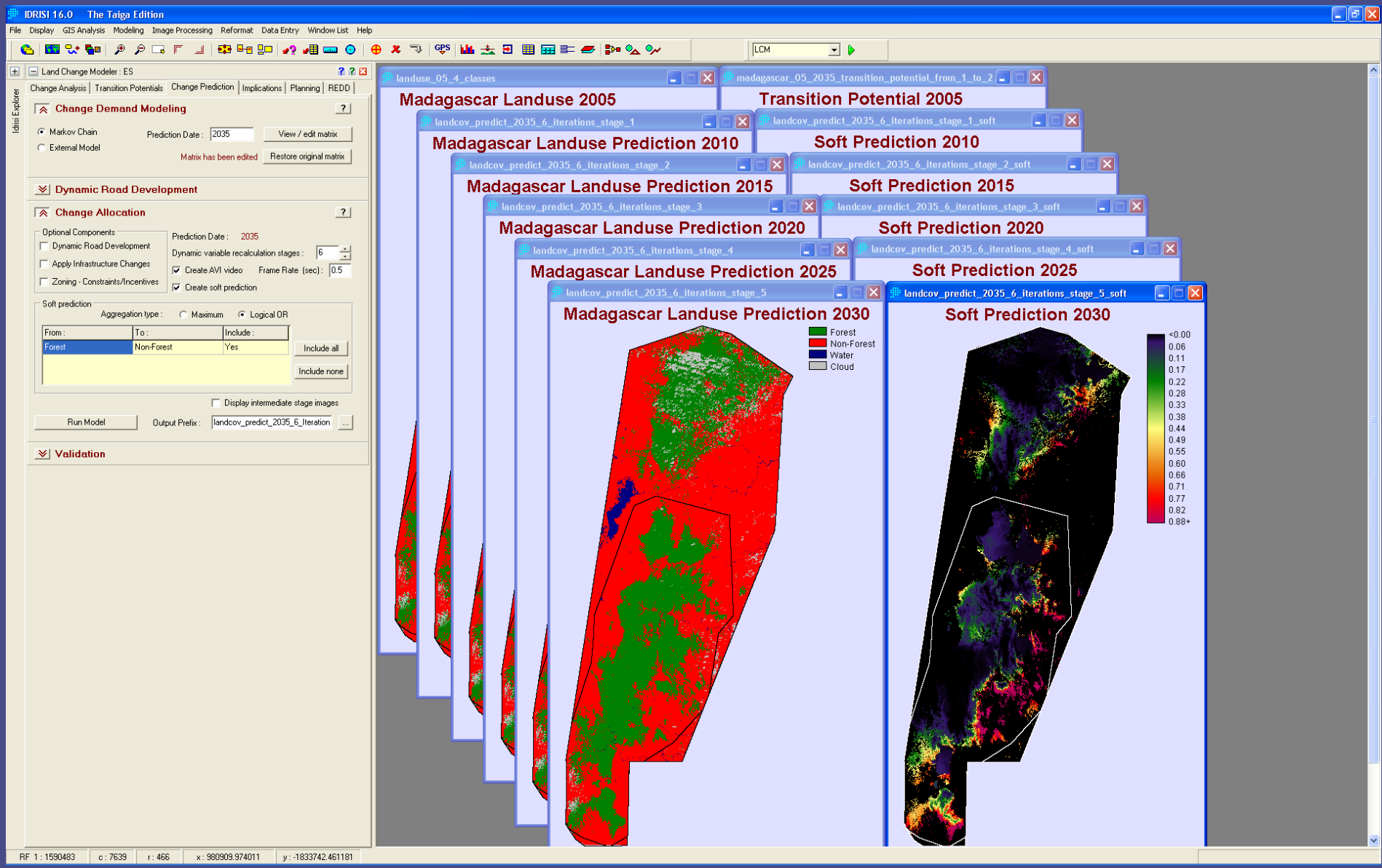

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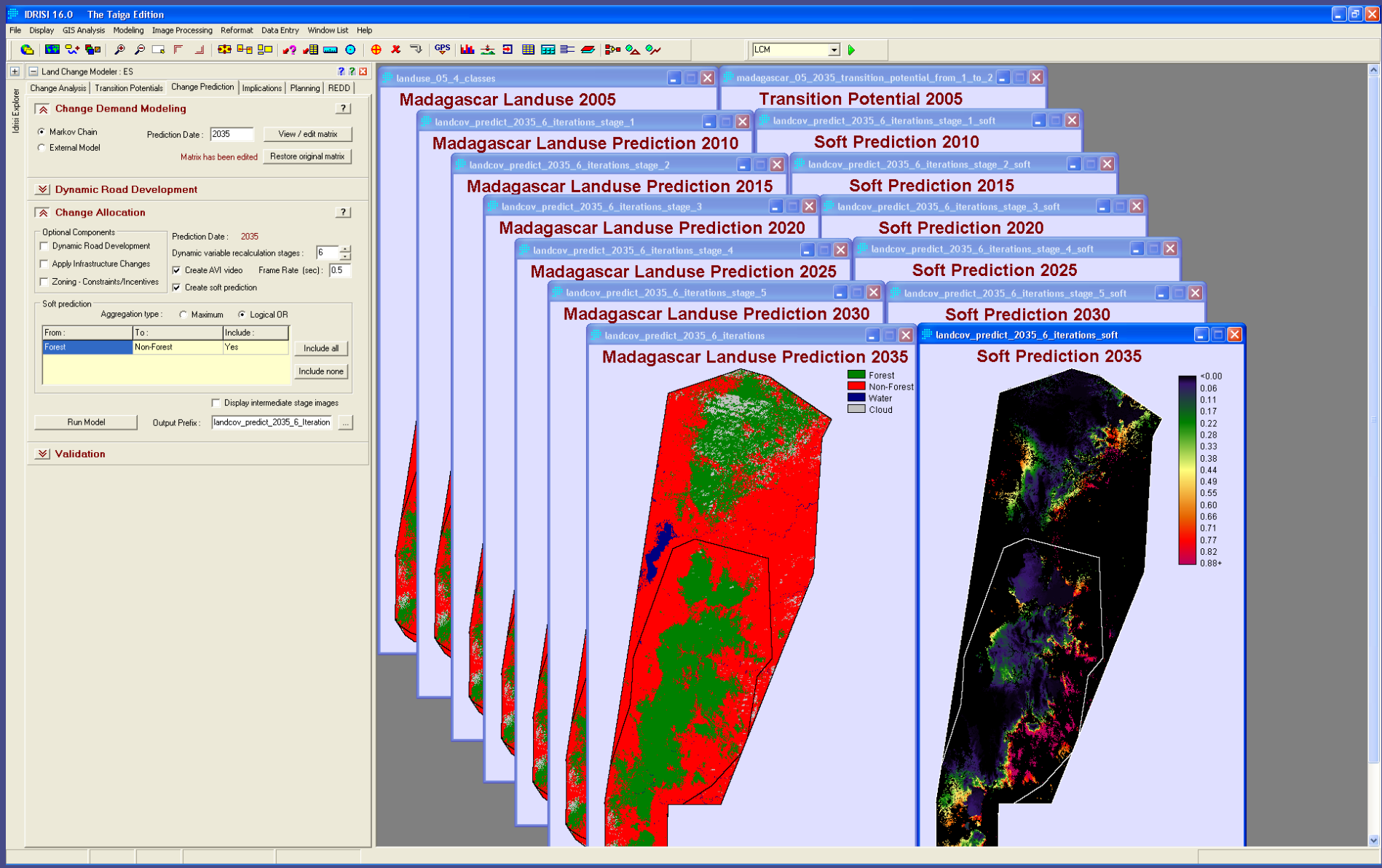


REDD – CO_2 Emission Within the REDD Project

IDRISI 16.0 The Taiga Edition

File Display GIS Analysis Modeling Image Processing Reformat Data Entry Window List Help

Land Change Modeler : ES

Change Analysis | Transition Potentials | Change Prediction | Implications | Planning | REDD

Idrisi Explorer

CO2 emission within the REDD project

Carbon pools within the REDD project area

Carbon Pool	Include/Exclude	Input type	Value
Above-ground	Included	Constant	Enter t ha-1 below
Below-ground	Included	% of AB	Enter % of AB below
Dead wood	Excluded	-NA-	-NA-
Harvested wood products	Excluded	-NA-	-NA-
Litter	Excluded	-NA-	-NA-
Soil organic carbon	Excluded	-NA-	-NA-

Biomass density (t ha-1) within the REDD project area

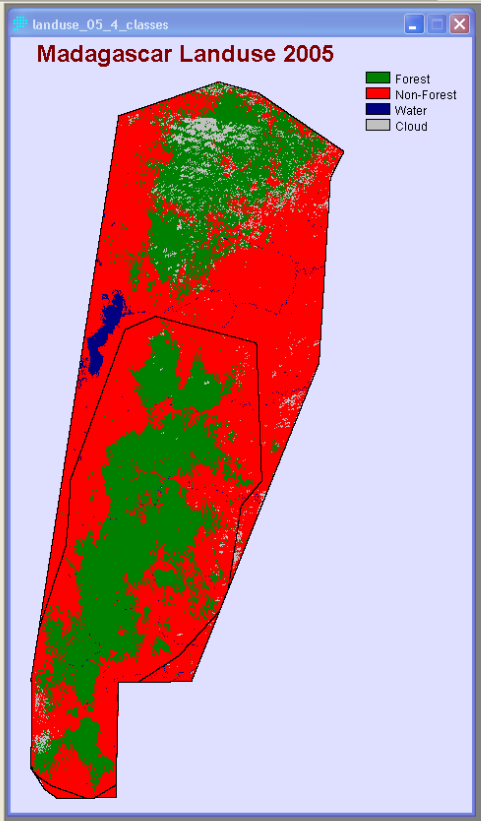
Names	AB	BB	DW	HWP	L	SOC
Forest	125.07	22.62	Excluded	Excluded	Excluded	Excluded
Non-Forest	10.08	2.45	Excluded	Excluded	Excluded	Excluded

Calculate baseline deforestration and carbon stock changes

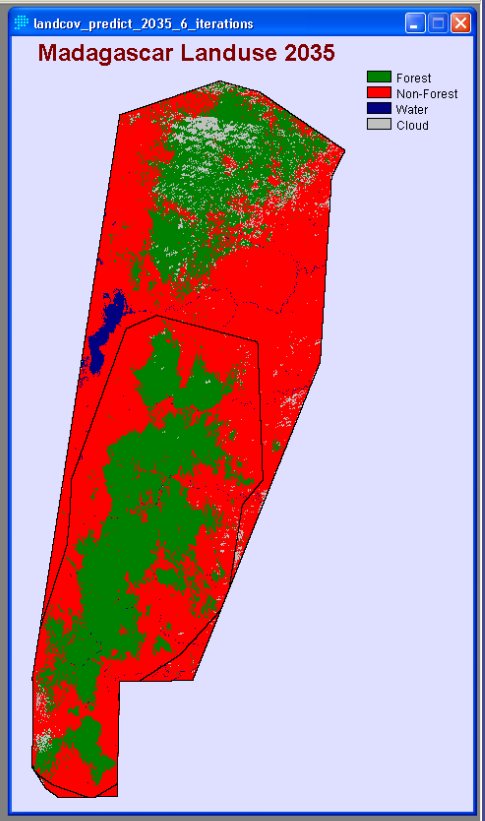
Non-CO2 emissions within the REDD project

Project Success and Leakage

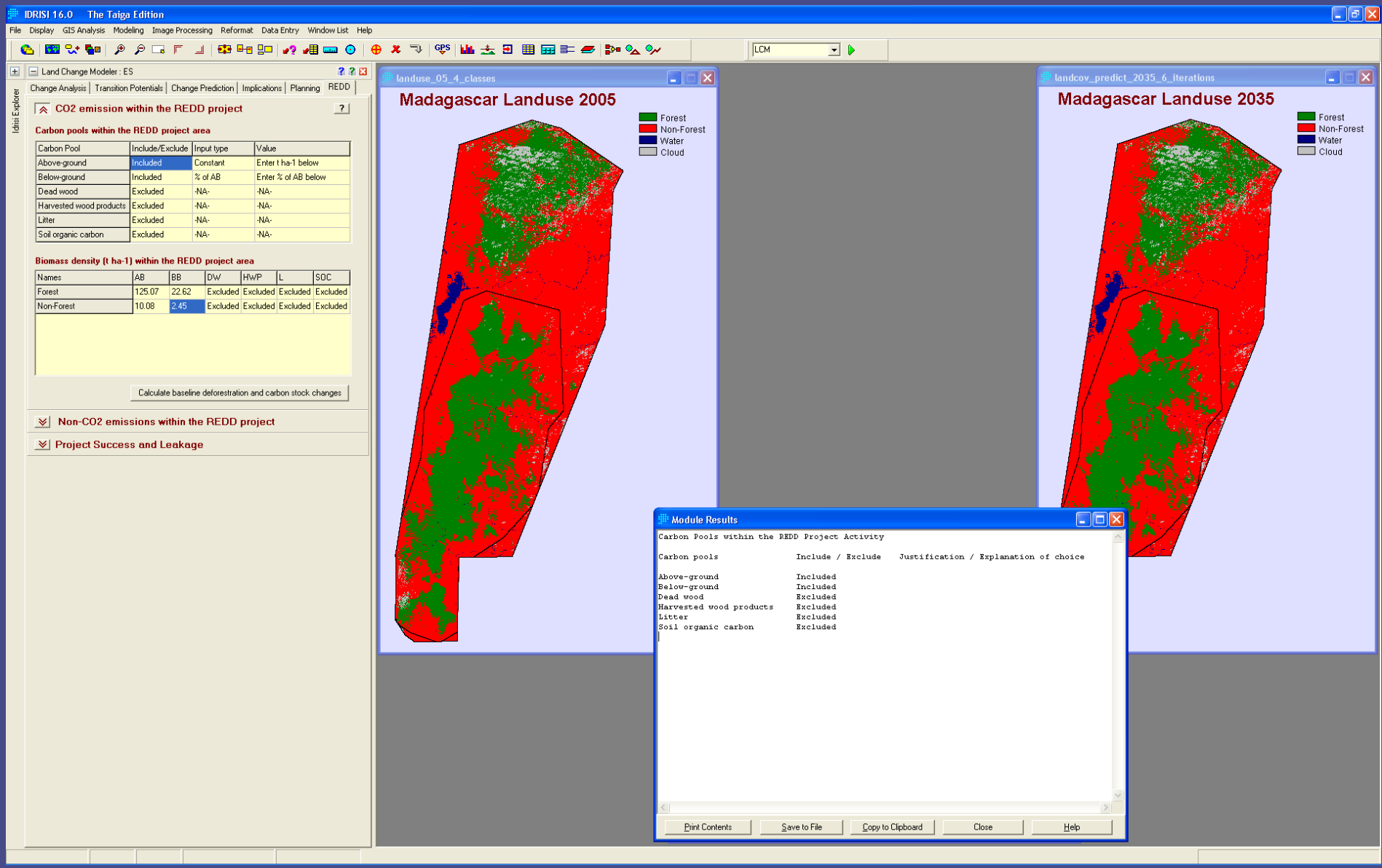
landuse_05_4_classes



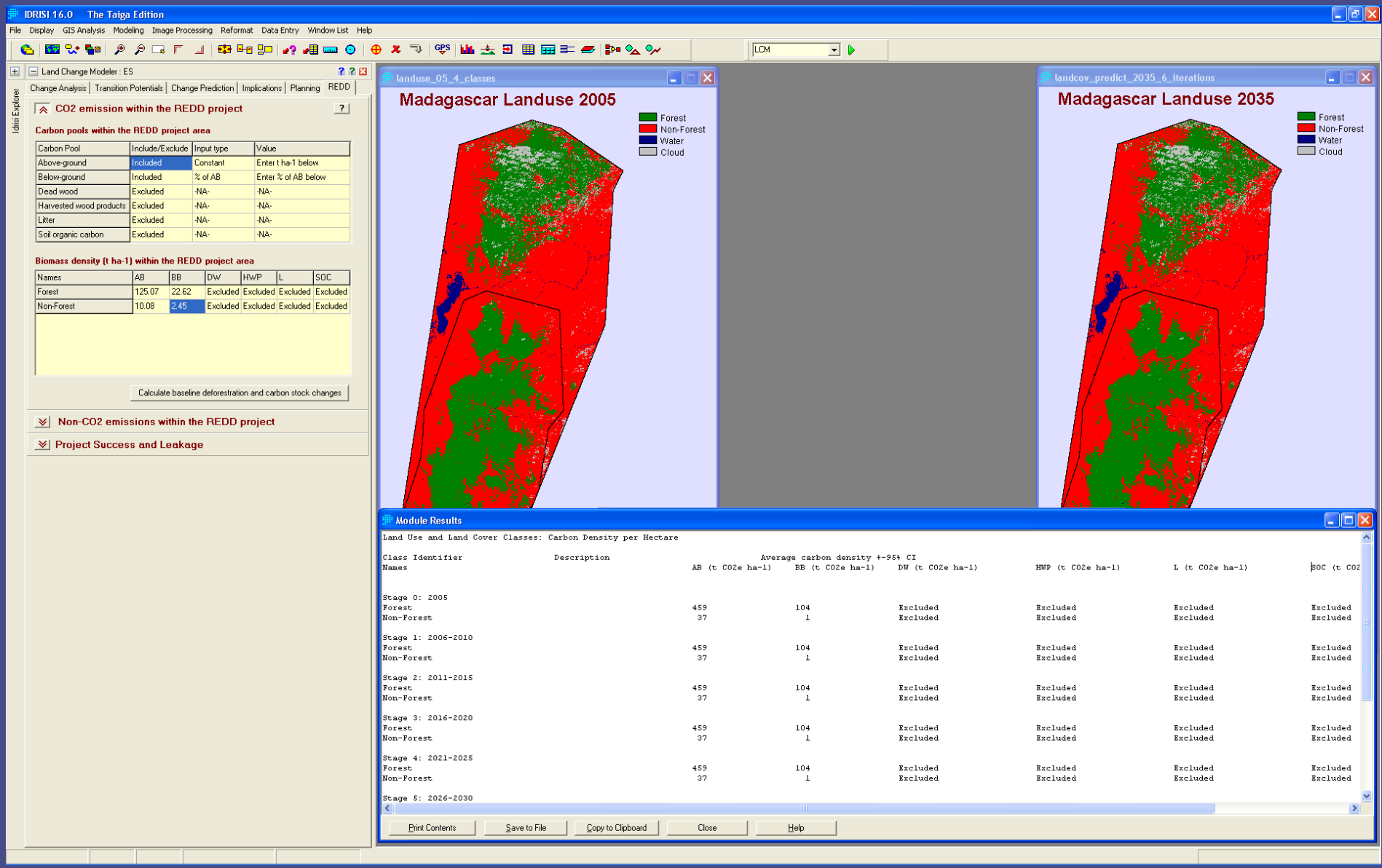
landcov_predict_2035_6_iterations



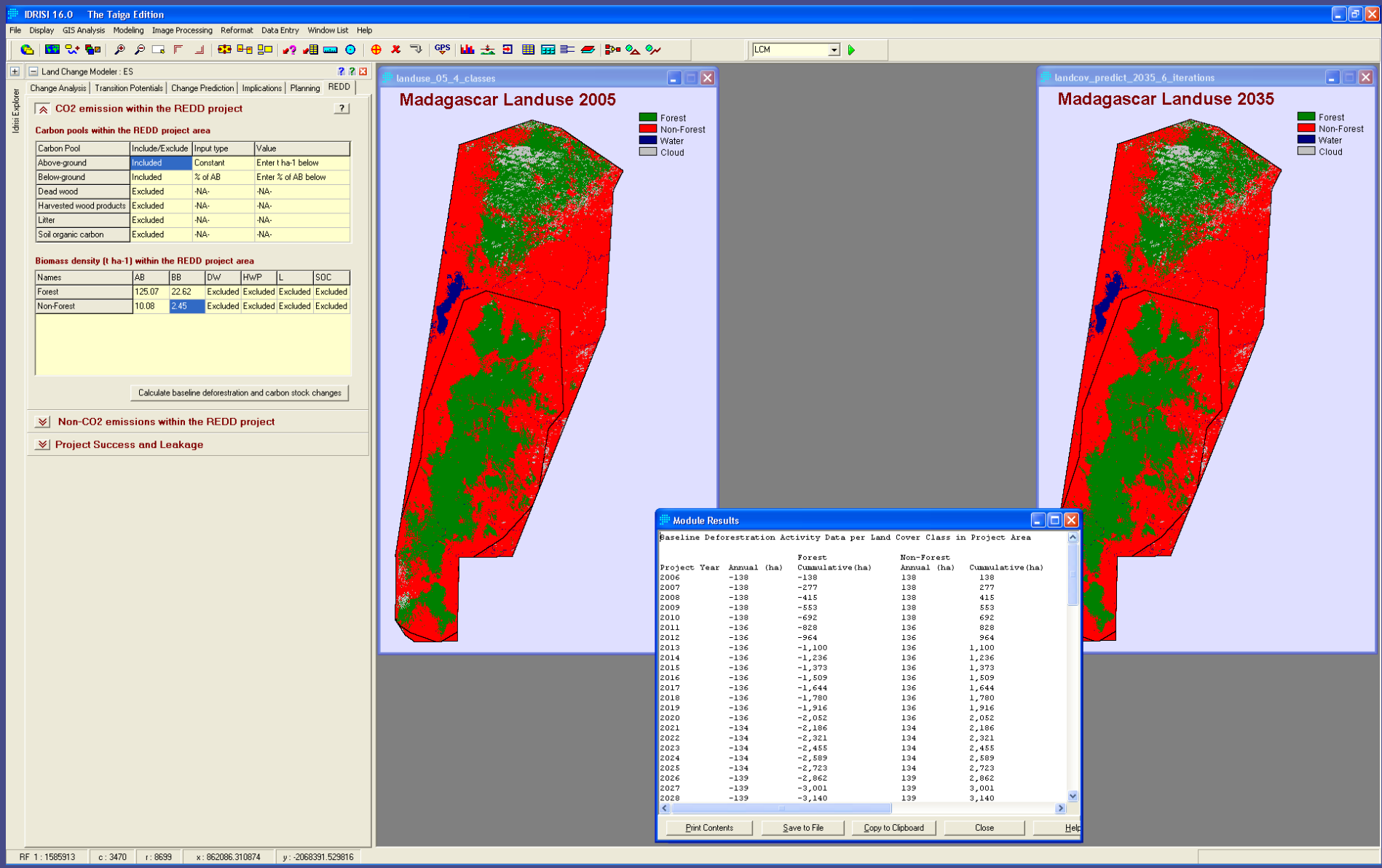
REDD – Carbon Pools within the REDD Project Activity



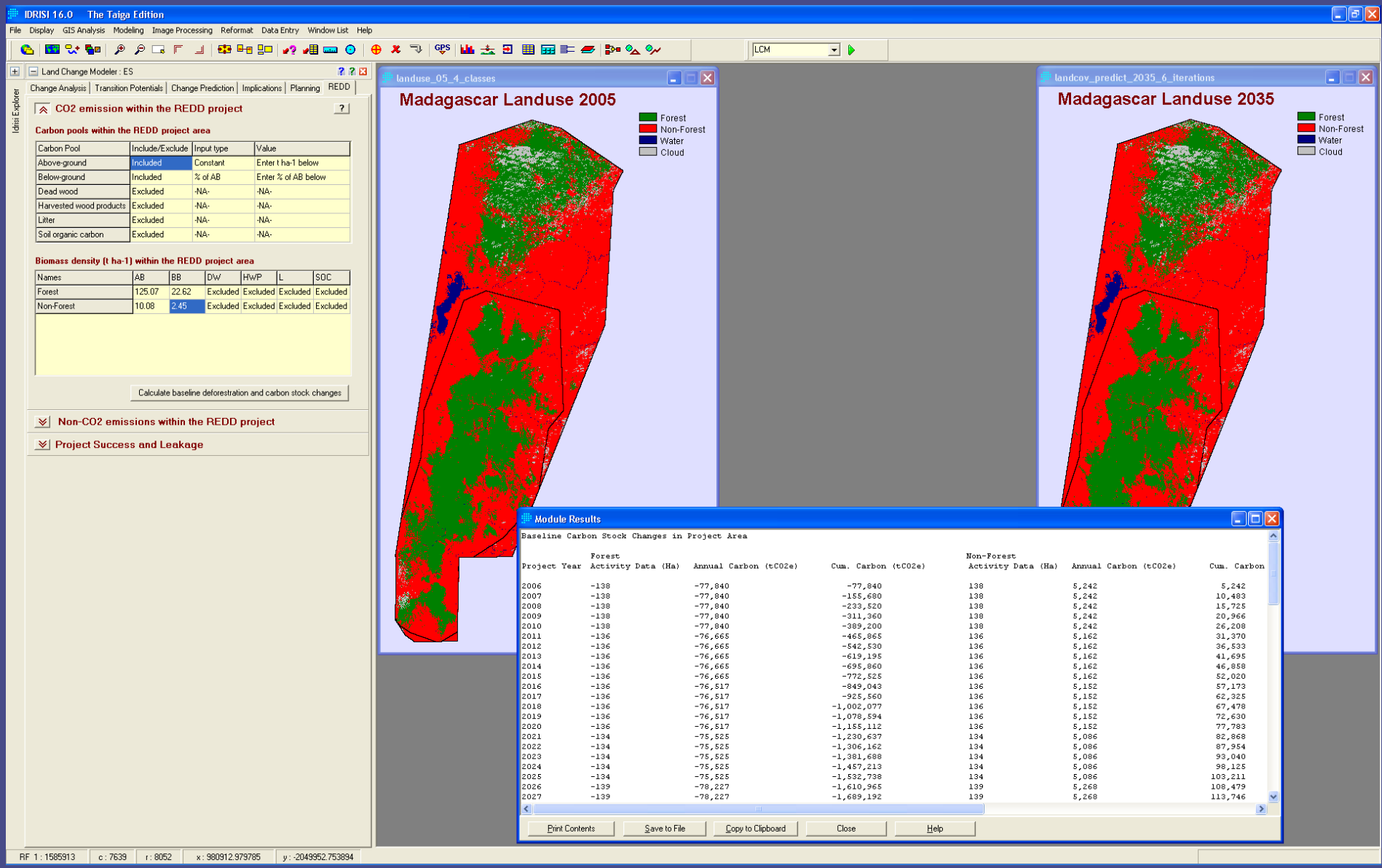
REDD – Carbon Density per Hectare



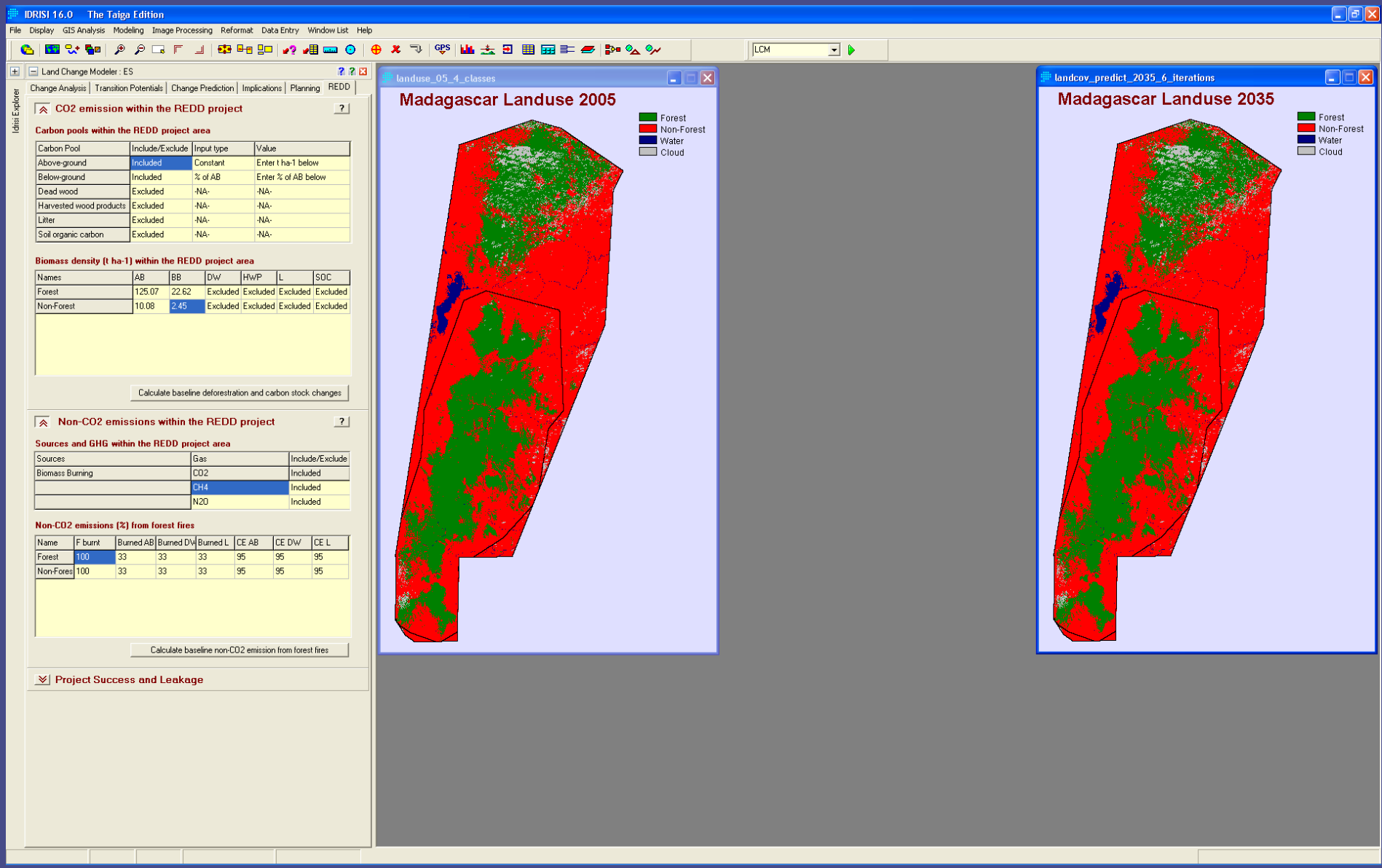
REDD – Baseline Deforestation Activity in Project Area



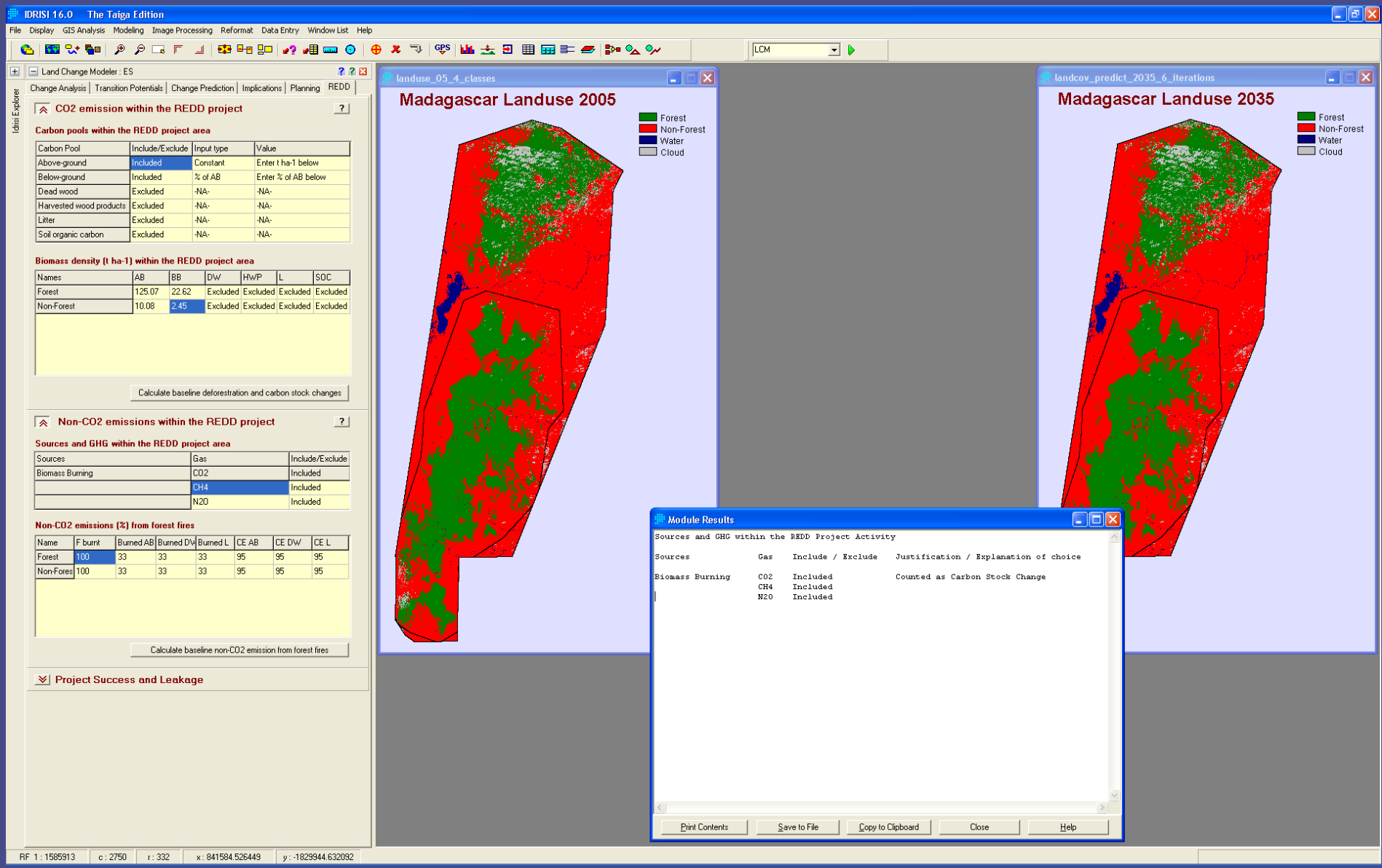
REDD – Baseline Carbon Stock Change in Project Area



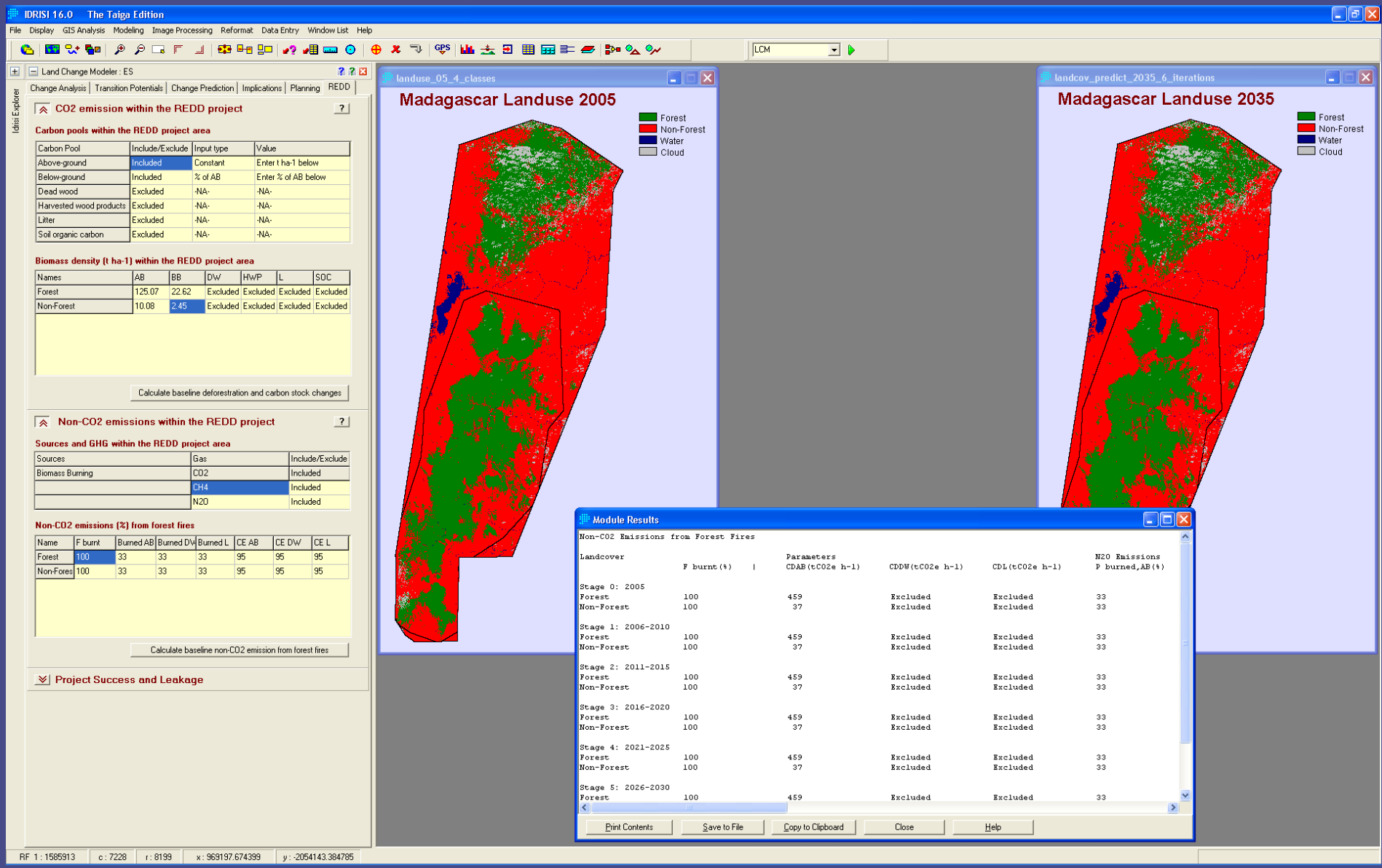
REDD – Non-CO_2 Emissions within the REDD Project



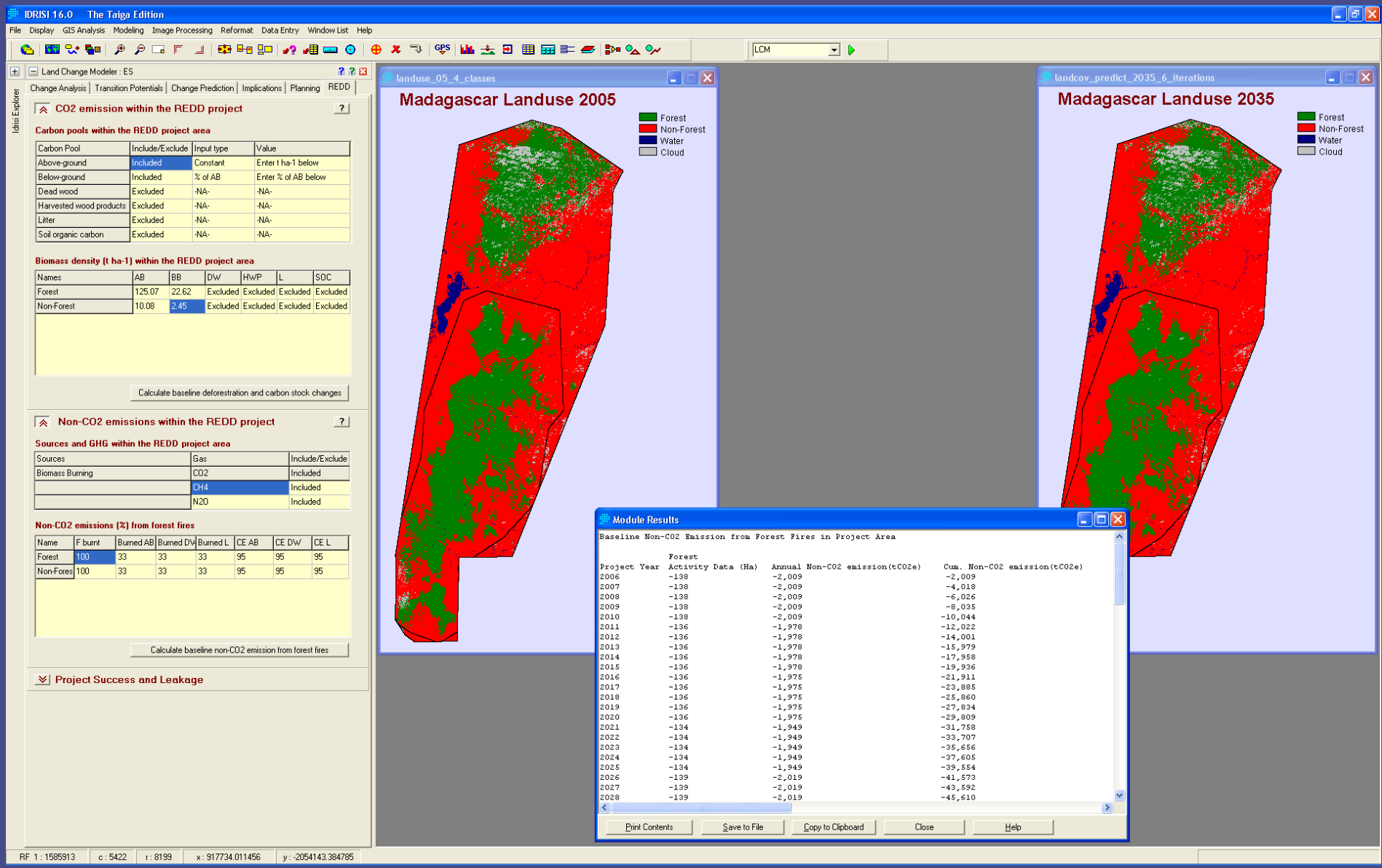
REDD – Sources of GHG within the REDD Project Activity



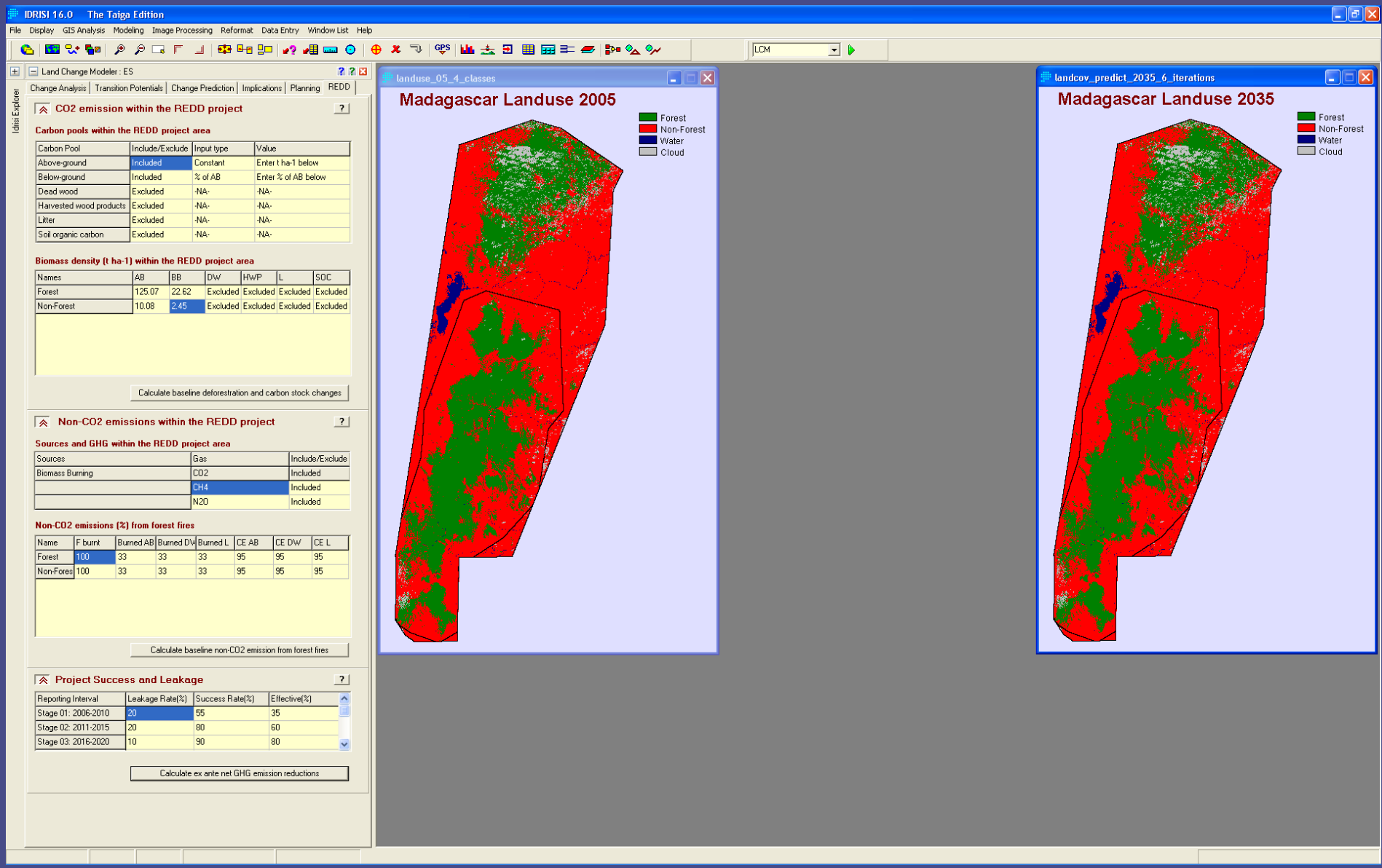
REDD – Non-CO_2 Emissions from Forest Fires



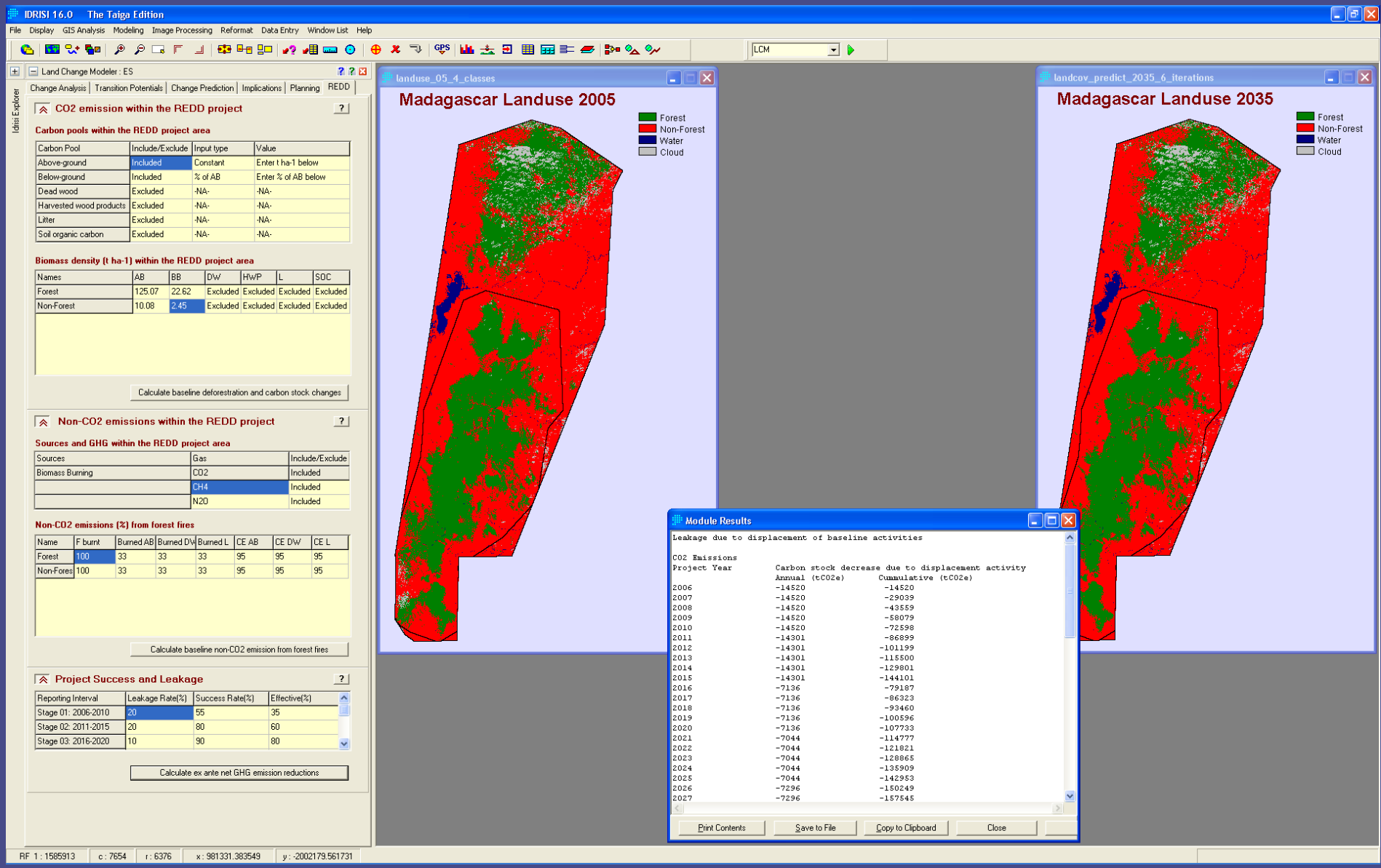
REDD – Baseline Non-CO_2 Emission from Forest Fires



REDD – Project Success and Leakage



REDD – Leakage due to Displacement Activities



REDD – Ex Ante net GHG Emission Reductions