INTERPINE
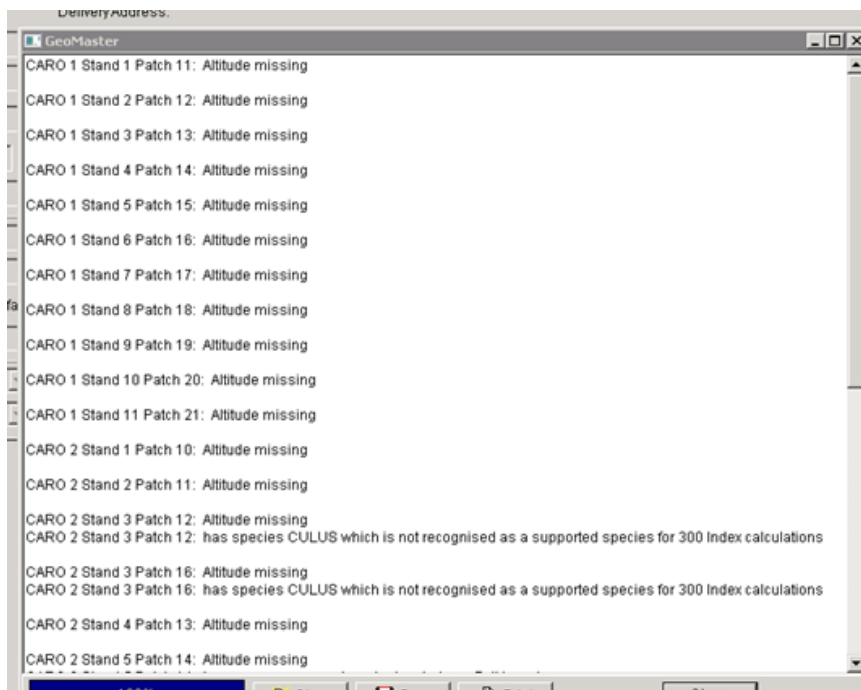FORESTRY INNOVATION

Calculate 300 Index Values within GeoMaster

The 300 Index is a measure of site productivity, representing the mean annual increment of stem volume of a Radiata crop at age 30 with a stocking of 300 SPH. GeoMaster can calculate and store the 300 Index for a 'patch'. A 'patch' being a single piece of land with a consistent land use and treatment history i.e. a stand may contain multiple patches.

ATLAS
GeoMaster

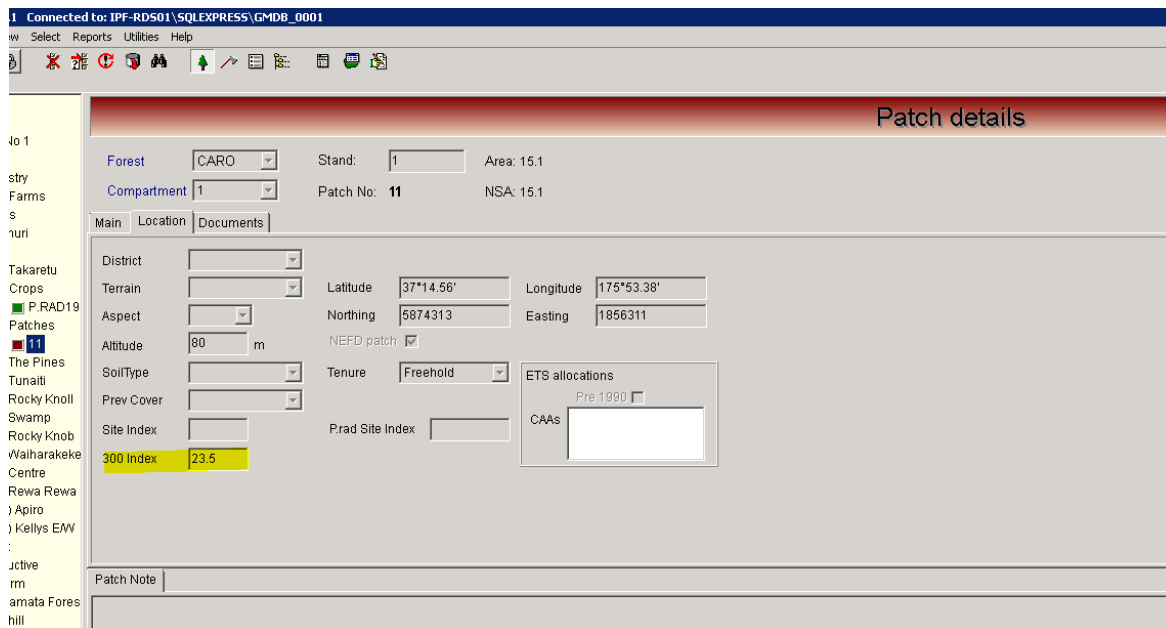Parameters obtained from GeoMaster (required fields) for use in the calculation of the 300 Index include:

➢ Latitude, Longitude (obtained automatically via the GIS), Altitude
➢ Planting Date
➢ Species
➢ Initial Stocking
➢ Pruning's (age, pruned height, pruned SPH)
➢ Thinning's (age residual SPH, thinning type: waste/production)
➢ Latest full inventory data – SPH, MTH, BA (if no MTH is recorded but there is a MCH this will be substituted. If no BA but DBH is present this will be converted to provide a BA.
➢ Planned harvest age, if no planned harvest date is recorded the default is 30 years.

If fields are missing or species other than radiata have been included an error list produced showing what fields in what areas are missing from what patches.
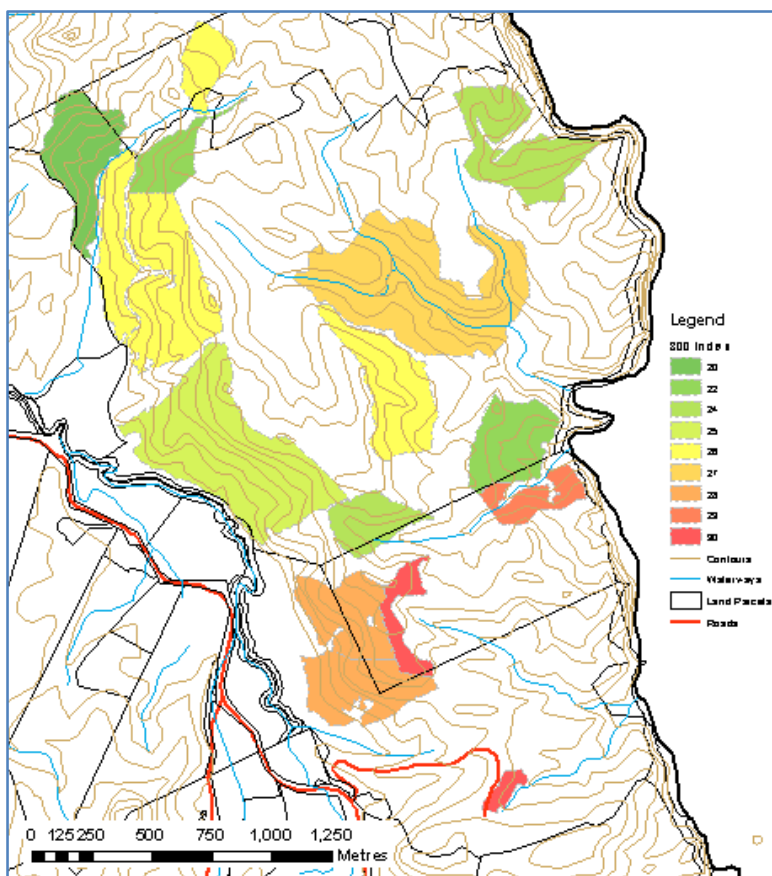

Patches with Attitude Missing when trying to Calculate the 300 Index

If all inputs meet the requirements of the 300 Index calculator the 300 Index values of patches will be updated.

300 Index Value Stored at the Patch Level in GeoMaster

As GeoMaster links seamlessly to GIS the 300 Index values can be shown spatially to show the site productivity of a forest.

300 Index Showing Spatially linking Directly with GeoMaster

GeoMaster cloud services provision by Interpine provides a solution to these problems with just a simple monthly fee structure. If you would more information on this please contact us via info@interpine.co.nz