

NINJO SYSTEM IMPLEMENTATION

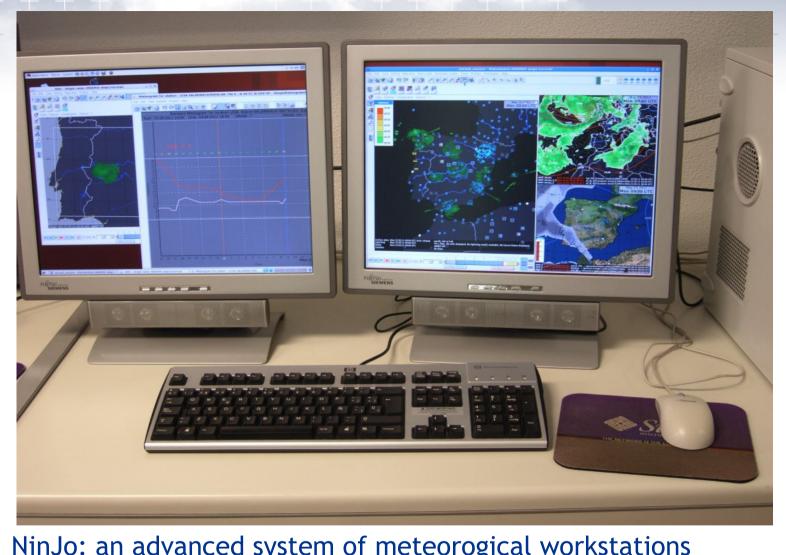
Formación en técnicas y herramientas operativas de predicción en el marco del Proyecto de Modernización del Proceso de Predicción de AEMET.

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ATAP (Forecasting Techniques and Applications Area)

SUMMARY

- NinJo History
- NinJo advantages vs current systems
- NinJo Client
 - Webcam layer
 - Color Enhancements
 - NinJo Image Viewer
- NinJo Product:
 - NinJo Product Workbench
 - NinJo Batch
- Work on



NinJo: an advanced system of meteorogical workstations

NINJO HISTORY

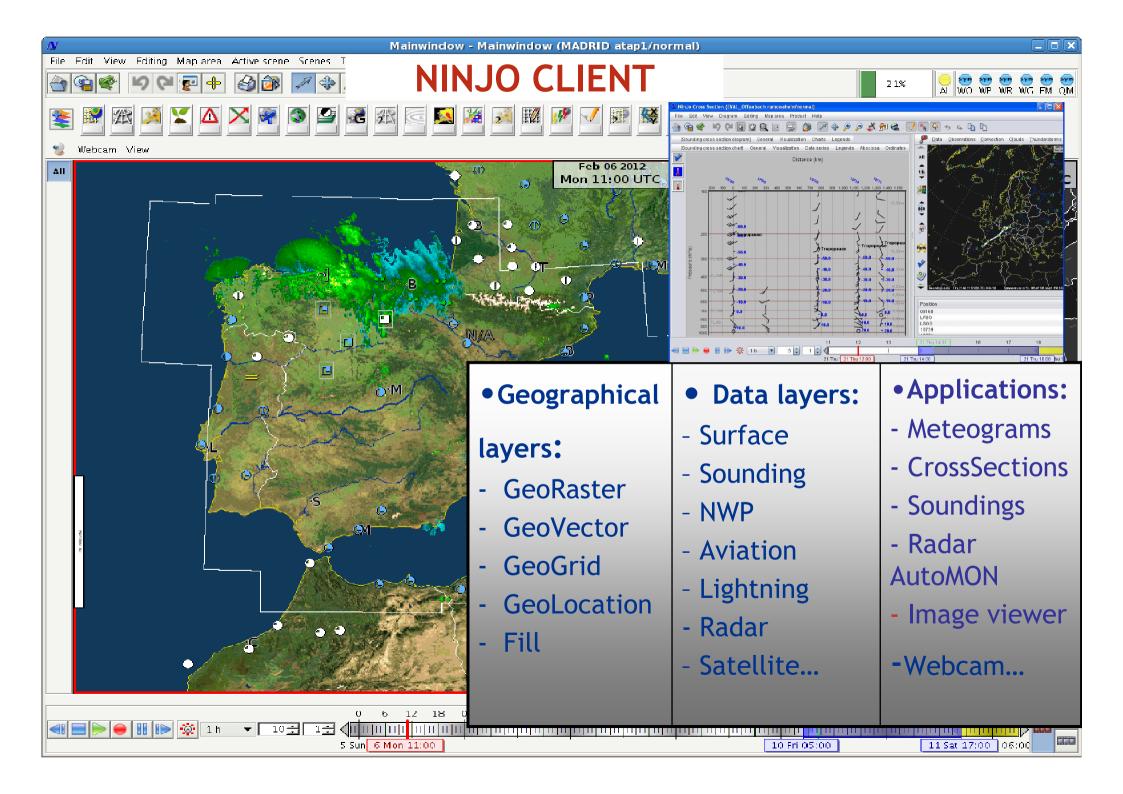
- Start of the project with the name GGS ("Gemeinsames Grafik System") was 2000
 - Original partners were Deutscher Wetterdienst (DWD) and the German Military Services (Bundeswehr Geoinformation Services)
 - Both had leagacy systems to be replaced
 - Partners joining the project
 - 2001: MeteoSwiss
 - 2002: Danish Meteorological Institute (DMI)
 - 2003: Meteorological Service of Canada (MSC)
- A NinJo View limited environment was installed in Madrid in 2008 for test purposes.

NINJO ADVANTAGES VS CURRENT SYSTEMS

- McIdas is less friendly for display and configuration.
- No production tools, rather a research tool.
- Intranet display tools: reduced data integration
 and data access. Not configurable.
- Basic display tools (eg: radar): not really for operational use

In consequence:

The adquisition of NinJo was decided in AEMET (in the frame of the wider Project for modernizing/upgrade of the forecasting procedure) to replace McIDAS in operations.

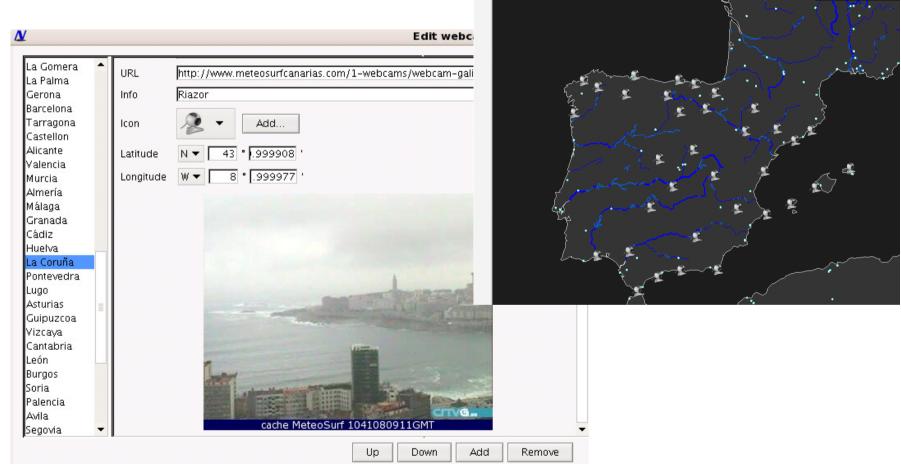


WEBCAM LAYER

Sep 15 2011 Thu 07:30 UTC

Allows the display of webcam images to give the forecaster an idea of

the current weather situation.



COLOR ENHANCEMENTS

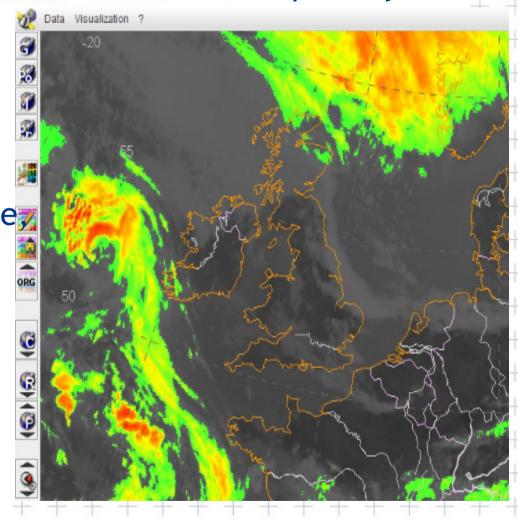
Data provide vast amounts of information used to quantify

physical properties.

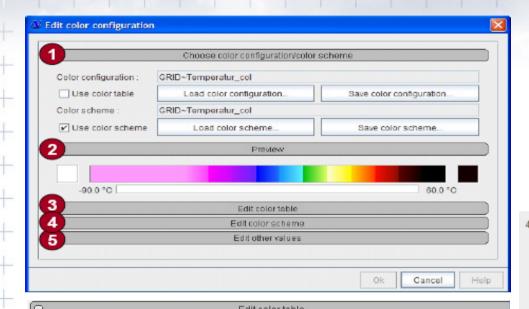
 Provide detailed descriptions of atmospheric, ocean, and land features.

McIDAS Enhancements (Satellite also radar) are being adapted to NinJo considering differences,
 Brightness vs temperature...

Same tools or part of it, are
 Used for other layers (as NWP)

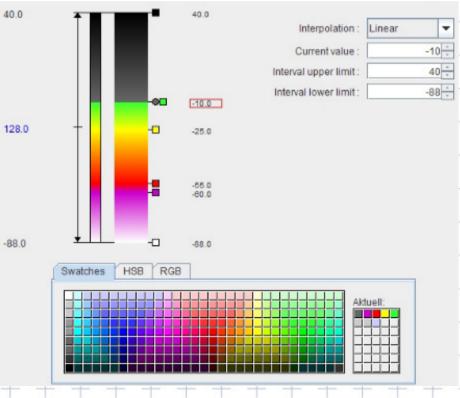


ENHANCEMENTS IN SATELLITE IMAGERY



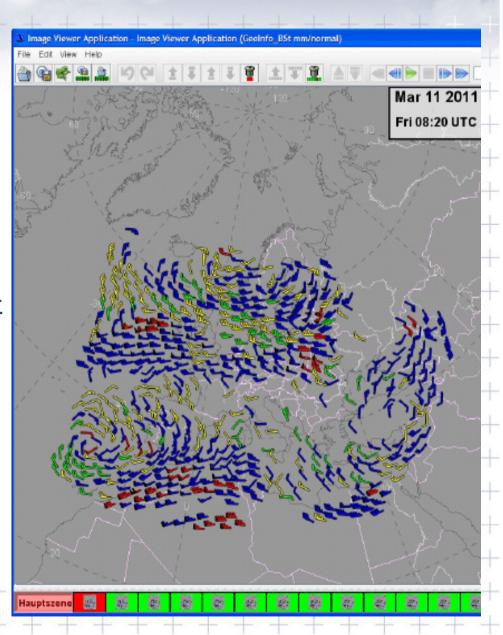
	Description	Color	Maximum value	Minimum value
			-75	-100
			-50	-75
			-35	-50
			-25	-35
			-20	-25
			-15	-20
			-10	-15
			-5	-10
			-0	-5
			5	-0
_			10	5
			15	10
			20	15
			25	20
			30	25
			100 🛈	-100
r(s)	Remove color(Add color

1	Selection of color configuration/color scheme, memory option for modified/own color configuration/schemes, activation of color tables/schemes
2	Preview of current color configuration
3	Creation/Modification of new/existing color table
4	Creation/Modification of new/existing color scheme
5	Change default colors and values



NINJO IMAGE VIEWER

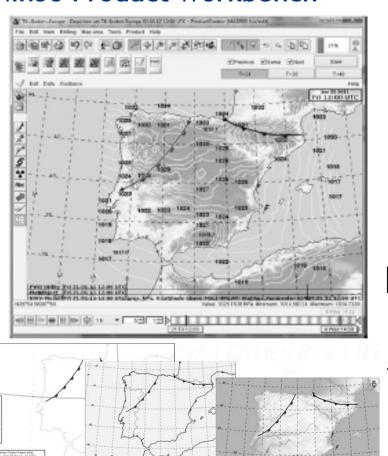
- Tool to store NinJo plots that are frequently used in order to show them very quickly without having to wait for the data to be reloaded.
- Supports consecutive recording of several image series.
- Provides various options to edit the image series.
- This tool is in principle attractive. It use for example considered, to merge diferent data in the same loop as Satellite data and then equivalent simulated images



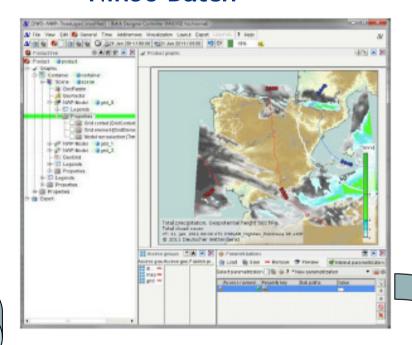
NINJO PRODUCT

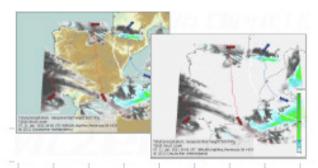
Interactive production of graphical weather analysis maps

NinJo Product Workbench



Automatic creation of graphical products from templates NinJo Batch





NINJO BATCH

 Automated event/time-triggered production of (almost) all meteorological data that can be graphically displayed

using NinJo.

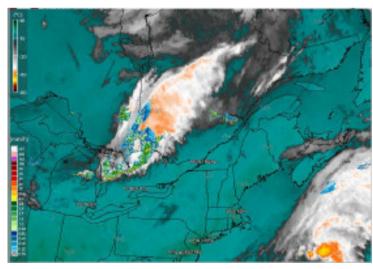
• Examples:

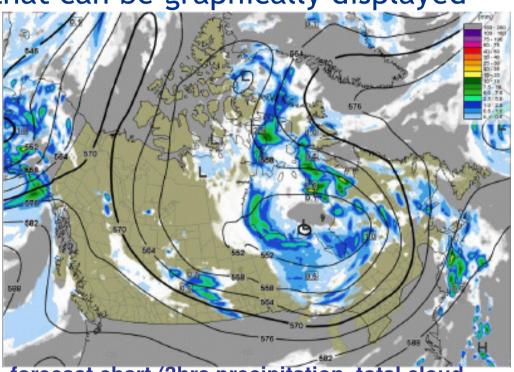
satellite- and radar images

forecast charts

meteogramms, soundings,

• cross-sections...

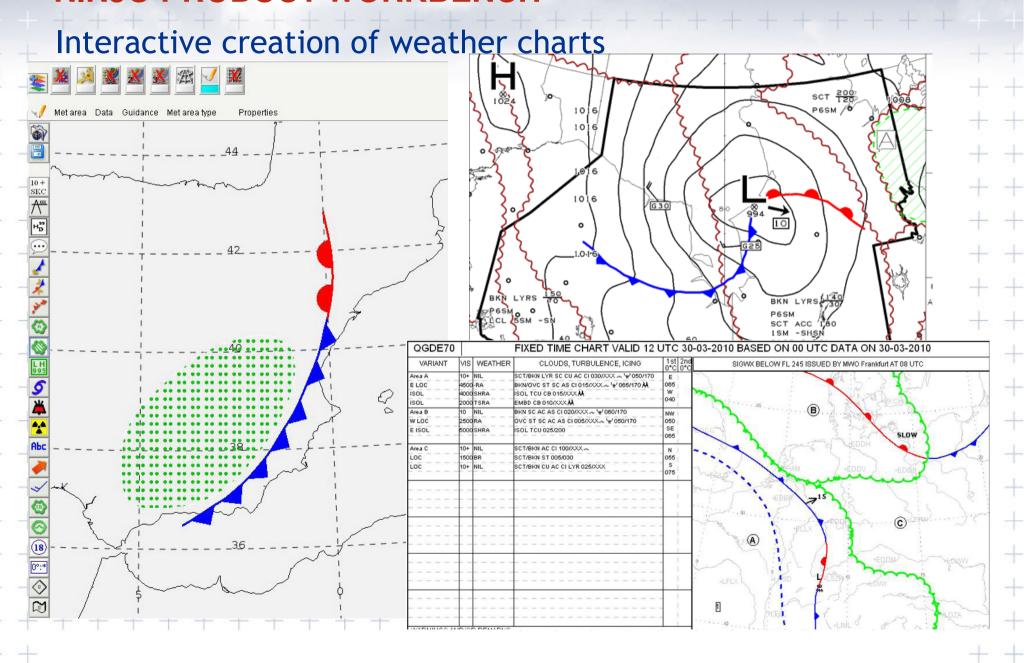




forecast chart (3hrs precipitation, total cloud coverage, pressure 500hPa)

SAT + Radar composite

NINJO PRODUCT WORKBENCH



WORK ON

- Color enhancements configuration and help to configuration.
- Development of Image Viewer
- Webcam layer: expert
- Support to Project managing:
 - summary of information on new updates/versions.
 - To make available useful documentation from NinJo user's group

NOVEDADES NINJO

Características generales del cliente, MainWindow, LayerContainer

Uso del Geocursor en la Ventana Principal dgg 1 p.11	 Se puede activar un Geocursor para las escenas de la ventana principal a través del menú Ver.
Novedades GUI	 La escea activa se muestra con borde rojo y con un icono diferente La selección de la escena activa se puede hacer a través del menú de la escena, o clic botón izquierdo sobre la selección de escenas Los botones de selección de escena mostrará el número de escenas que tenemos abiertas junto con sus respectivos nombres. Si activamos una escena secundaria se activa la GUI de dicha escena La ventana principal puede mostrarse según dos tipos de diseño: Diseño por defecto y Diseño Grid La "escena principal" pasa a llamarse "escena activa". El "Area del Mapa" ahora controla el mapa de la escena activa. Las escenas secundarias ahora se llaman escenas y contienen submenús para cada una de ellas. Los últimos colores que se han utilizado se conservan y pueden ser reutilizados en posteriores sesiones: Las escenas en la ventana principal se pueden pasar a modo pantalla completa Se incluye la posibilidad de borrar favoritos y configuraciones Leyenda de las escenas: edición más amigable
Configuración general	 Posibilidad de borrar favoritos y configuraciones NinJo pedirá confirmación para sobrescribir archivos o favoritos. Si no tengamos permiso para una acción determinada, NinJo nos lo indicará.
Edición de la leyenda dog 1 p.11	• Ahora se puede editar la fuente de la leyenda de información de la escena

NINJO PROJECT OVERALL

• 2012:

- Full installation (servers clients).
- Exploration of all data types needed.
- First post favourites (shifthead, aviation forecaster).
- Firt preoperational products (fronts low level aviation).
- Work on local favoutites
- A complementary scheme for internal training

2013:

- Operational post favourites
- Production development...