



Deutscher Wetterdienst



Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
Confederaziun svizra

Eidgenössisches Departement des Innern EDI  
Bundesamt für Meteorologie und Klimatologie  
MeteoSchweiz



Environment Canada  
Environnement Canada

Meteorological Service of Canada  
Service météorologique du Canada



Accso Accelerated Solutions

Capgemini  
CONSULTING. TECHNOLOGY. OUTSOURCING



# The ~~NinJo~~ User Story *team*

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EGOWS 2015 – ECMWF, Reading

Sören Kalesse – Deutscher Wetterdienst

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# Outline

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- Short introduction to NinJo

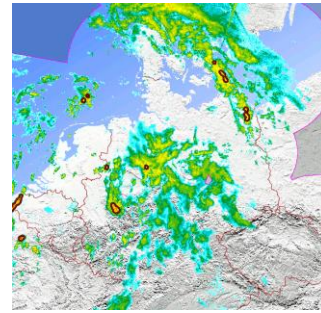
- The NinJo game

**The Devs : The Mets**

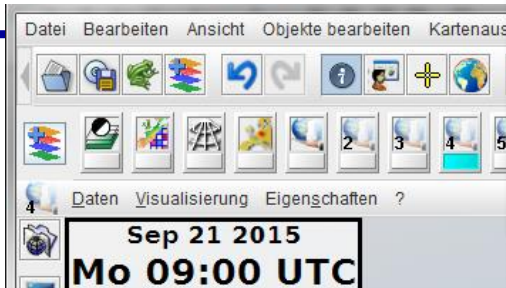
- Impressions from the



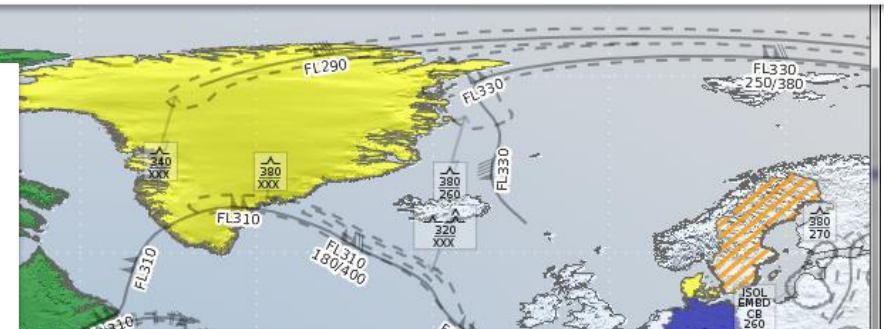
# NinJo is ...



*Meteorological data visualization,  
Interactive / batch graphical production,  
Public / aviation warning production,  
Media presentations  
Science processing*



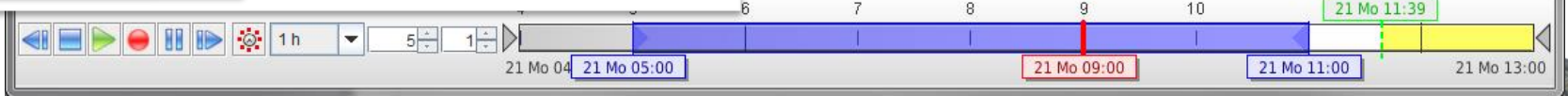
*~80 developers  
designers,  
programmers,  
testers,  
deployment teams*



*4 countries  
5 weather services,  
several licensees,  
public, marine, aviation  
and military weather*



*~900 users  
forecasters,  
climatologists,  
researchers,  
trainers, gurus*



# NinJo is ...

- Software releases per year
  - » 1 major release
  - » 6-7 sub-releases
  - » numerous patches
- Many of them operational in parallel

1.9

1.7.5

1.8.3\_01\_msc-patch-04



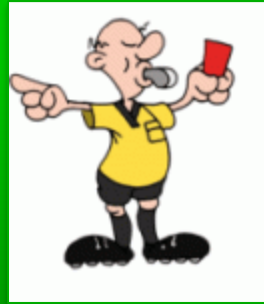
Current overall status

*~1.000 open bugs,  
~1.200 open features/improvements,  
4 major NinJo re-designs ongoing*

# The NinJo players

## The Devs

## The Mets



*Chief designer*



*NinJo chief design group*



*NinJo requirements and evaluation group*

*designers,  
programmers,  
testers*

*forecasters,  
climatologists  
researchers,  
trainers,  
gurus*



*Design support*



*NinJo User Group*

# The NinJo game



Change Request Management



Continuous Integration System

## The Devs

## The Mets



NinJo chief design group



Design support



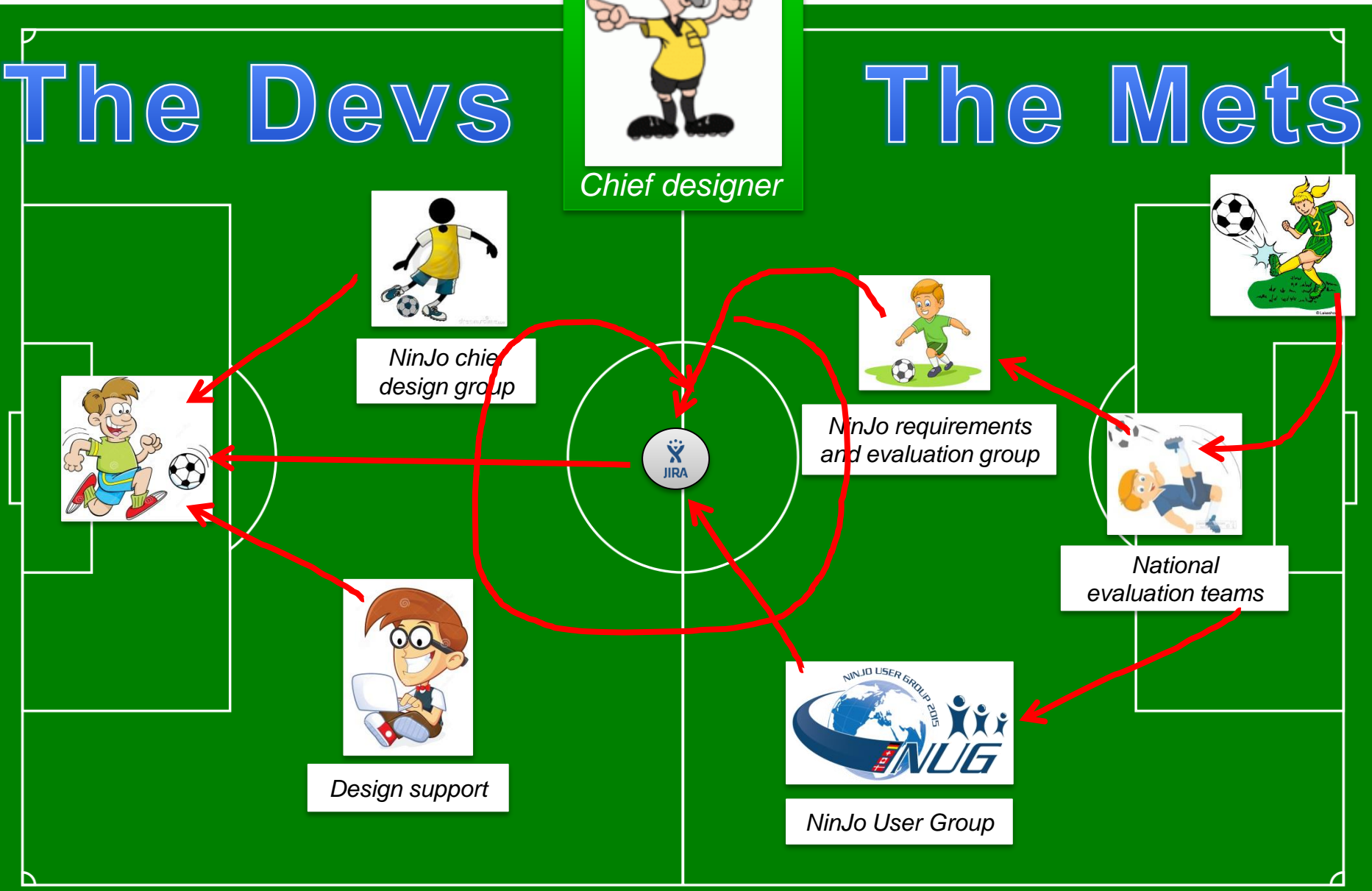
NinJo requirements and evaluation group



National evaluation teams



NinJo User Group



# The NinJo game



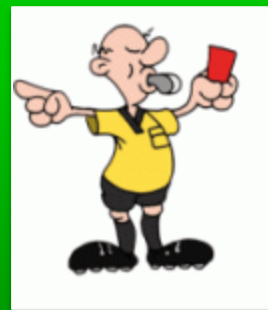
Change Request Management



Continuous Integration System

## The Devs

## The Mets



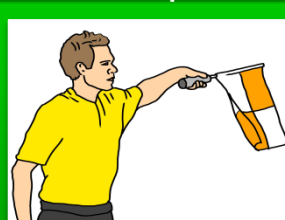
Chief designer



NinJo chief design group



Design support



Release managers



NinJo requirements and evaluation group



NinJo User Group



National evaluation teams

# The NinJo game



Change Request Management



Continuous Integration System

## The Devs

## The Mets

Game Over for NinJo 1.9

The Devs : The Mets



1465 : 275



*resolved vs. open issues for NinJo 1.9 (three weeks before code freeze)*



# NinJo users on the constant quest for ...

- better understanding of the NinJo software
- improved NinJo configurations
- better workflows
- sharing their experiences, workarounds and best practices

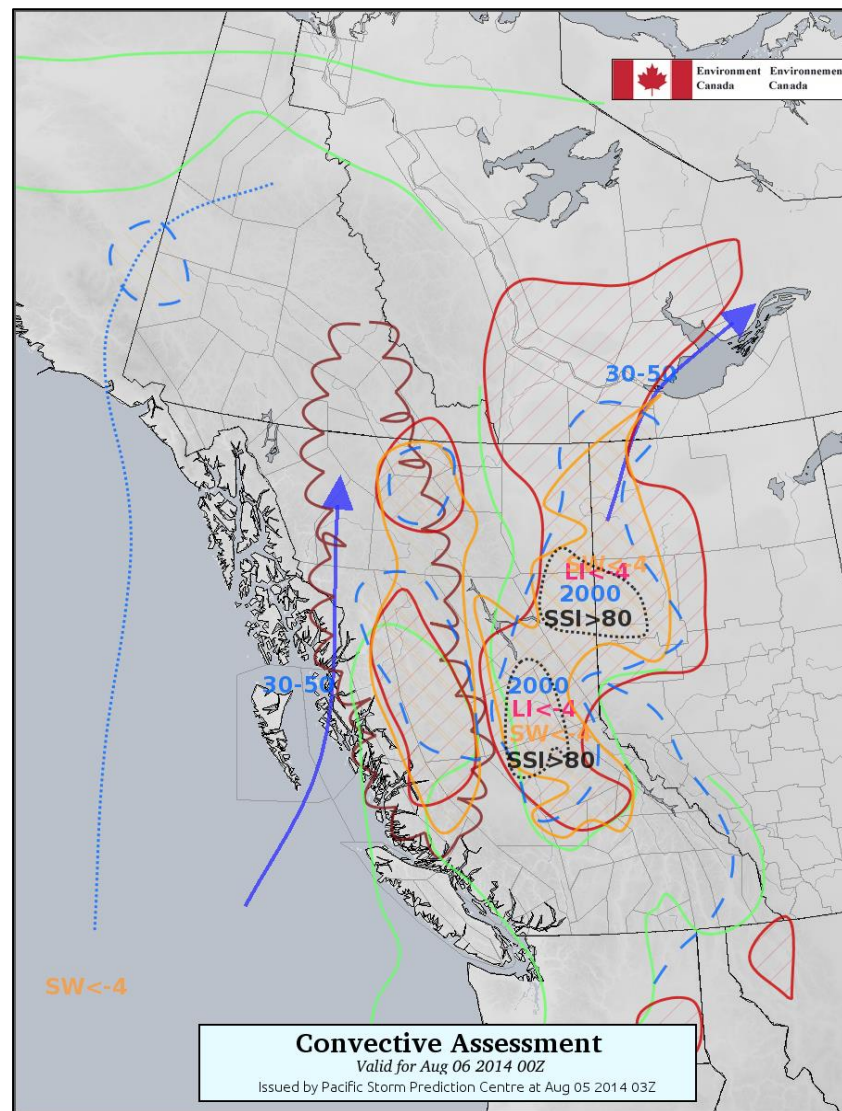


## ***9<sup>th</sup> annual NinJo User Group meeting 2015***

- Sept. 15<sup>th</sup> – 17<sup>th</sup> in Geneva (at the WMO)
- ~50 representatives from all over the consortium

# Improving workflows – Convective Outlook

- A composite chart depicting significant processes or features relevant to convective initiation or persistence
- Ingredient based methodology
  - » Features: **Moisture**, **Instability**, **Trigger**, **Shear**
- Advantages:
  - » Guiding the forecasters into a well-defined workflow
  - » Leads to improved, consistent graphical products



# Convective Outlook

	Features	myGUI	Symbols		Features	myGUI	Symbols		Features	myGUI	Symbols
250mb	Jet	250 Wind CLR	250 HT CLR	J30	Temp No-Change Line	CLR CLR 700 T change	cooling	Indices	Lifted Index < 0	LI CLR CLR	
500mb	Jet	500 Wind CLR	500 HT CLR	J50	Dry-Prod	700 T-Td CLR CLR	DRY		Lifted Index < -4	Same as above	
	Difffluence Zone	Same as above									
	Cold Trough	500 Temp CLR	CLR								
	Thickness Ridge	1000-500 Thkns CLR	CLR								
	PVA	CLR CLR	CLR								
	Height Change	500 HT Change CLR	CLR	Optional							
700mb	Jet	700 Wind CLR	700 HT CLR	J40							
	Thermal Ridge	700 Temp CLR	CLR								
	Vertical Velocity	700 VV CLR	CLR								
					SFC						
					Zones	CLR					
					Barlobaric Field	Pres Tend CLR	CLR				
					Moist Tongue	SFC Td CLR	CLR				

proto9

NWP-Model

- \*Clear Field\*
- 250 HT
- 250 Wind
- 500 HT
- 500 Wind
- 500 Temp
- 1000-500 Thkns
- 500 HT Change
- 700 HT
- 700 Wind

NWP-Model

- \*Clear Field\*
- 500

# The NinJo Flash

- Bi-monthly newsletter issued by the Canadian Met. Service
- Improve communication and better share experiences across the service and more often even between consortium partners

## NINJO FLASH

January 2015 Volume 2 Issue 1

**Important Bug Fixes and Improvements with NinJo 1.8.3**


We, the NinJo Team, are always striving to make the life of the operational forecaster better. With the release of version 1.8.3, we are happy to announce that hundreds of issues have been resolved. In fact here are the numbers:

- Consortium wide: 1900 issues fixed
- Specific to MSC: 247 issues fixed
- 62 Mantis entries resolved and closed

Here are some of the more important fixes:

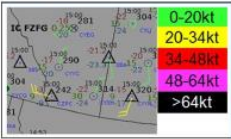
**General**

1) In addition to the latitude and longitude of the mouse position on the bottom left of the window, the ground elevation was also added in meters and in feet



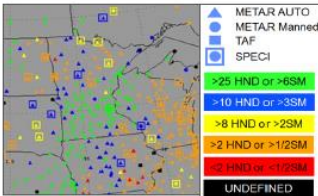
**Surface Layer**

2) Default wind barb colors have been changed to increase their visibility



**Aviation Layer**

3) The default plot of the aviation layer has been fixed to correctly reflect the flight categories.



**AWEM**

4) The issue of missing menus/menu items has been resolved for both the top main menu and the side context menu.

5) The mouse click functionality has been changed so you can now confidently right click on an event to update it and not worry about inadvertently canceling your neighbour's event.

Continued...  
Page 4

◀ Important bug-fixes for NinJo 1.8.3

What's the story behind the German "Weather Frogs" and why are they in NinJo? ▼

## NINJO FLASH

January 2015 Volume 2 Issue 1



**Wetterfrösche (Weather Frogs)**

*"Inside a glass case is an Italian green frog (hyla arborea), which, obeying the instincts of its nature, remains concealed in the glass when the weather is damp; but, so soon as a more favourable change is imminent, climbs up a little ladder which is provided, rising the higher as the weather improves. We have placed the object in the window in order that our readers may verify the statements by ocular demonstrations. Complete 10s."*

-Reads an advertisement in The Coffee Public-House News and Temperance Hotel Journal No. 115 (1st December 1886)

The "Tree frog barometer" is a Swiss/German phenomenon and owing to the original designers of NinJo and to the fact that meteorologists are colloquially refer to as **Wetterfrösche** (weather frogs) in Germany, the meaning behind the icon in NinJo is revealed.

Who knew? Now you do.



# The NinJo Flash – User Surveys

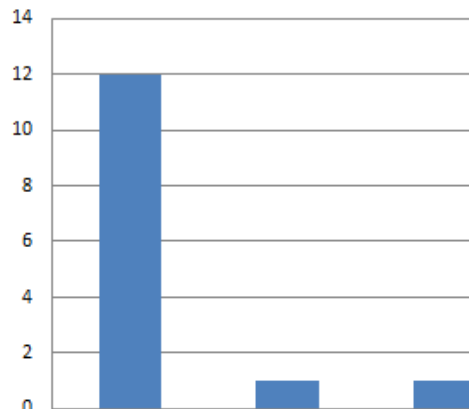
- Subjective but interesting, even for development

Please rank how often you use the following GOES RGB satellite imagery while working operationally:

## 1. Day Vis (Vis/Vis/11u)

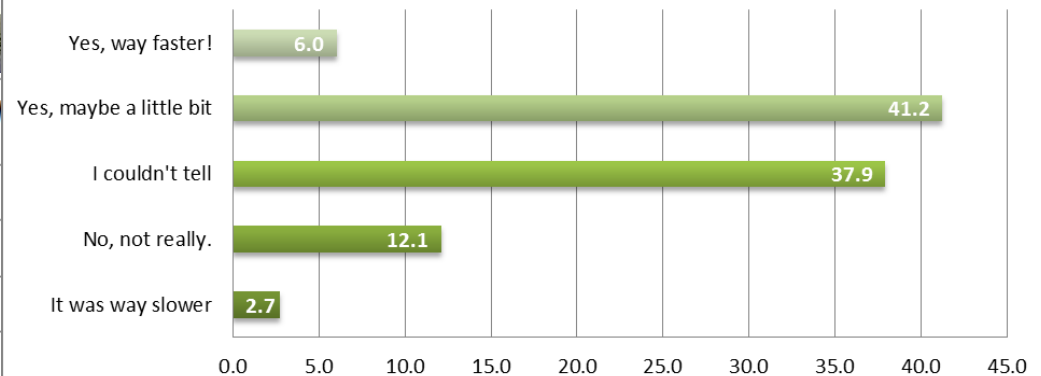


### Day Vis (Vis/Vis/11u)



- Almost every shift
- Often
- Sometimes
- Never
- I only use it when dealing with a specific weather phenomenon

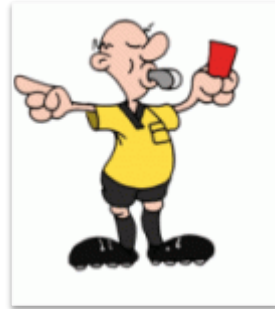
## Was NinJo 1.8.3 Noticeably Faster than 1.7? (Overall)



	It was way slower	No, not really.	I couldn't tell	Yes, maybe a little bit	Yes, way faster!
% of Responses	2.7	12.1	37.9	41.2	6.0



# Thanks for Your attention!



Questions?

