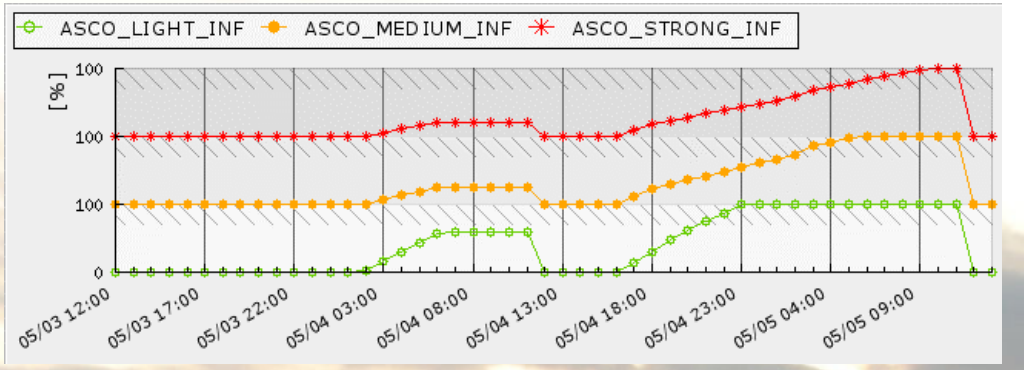
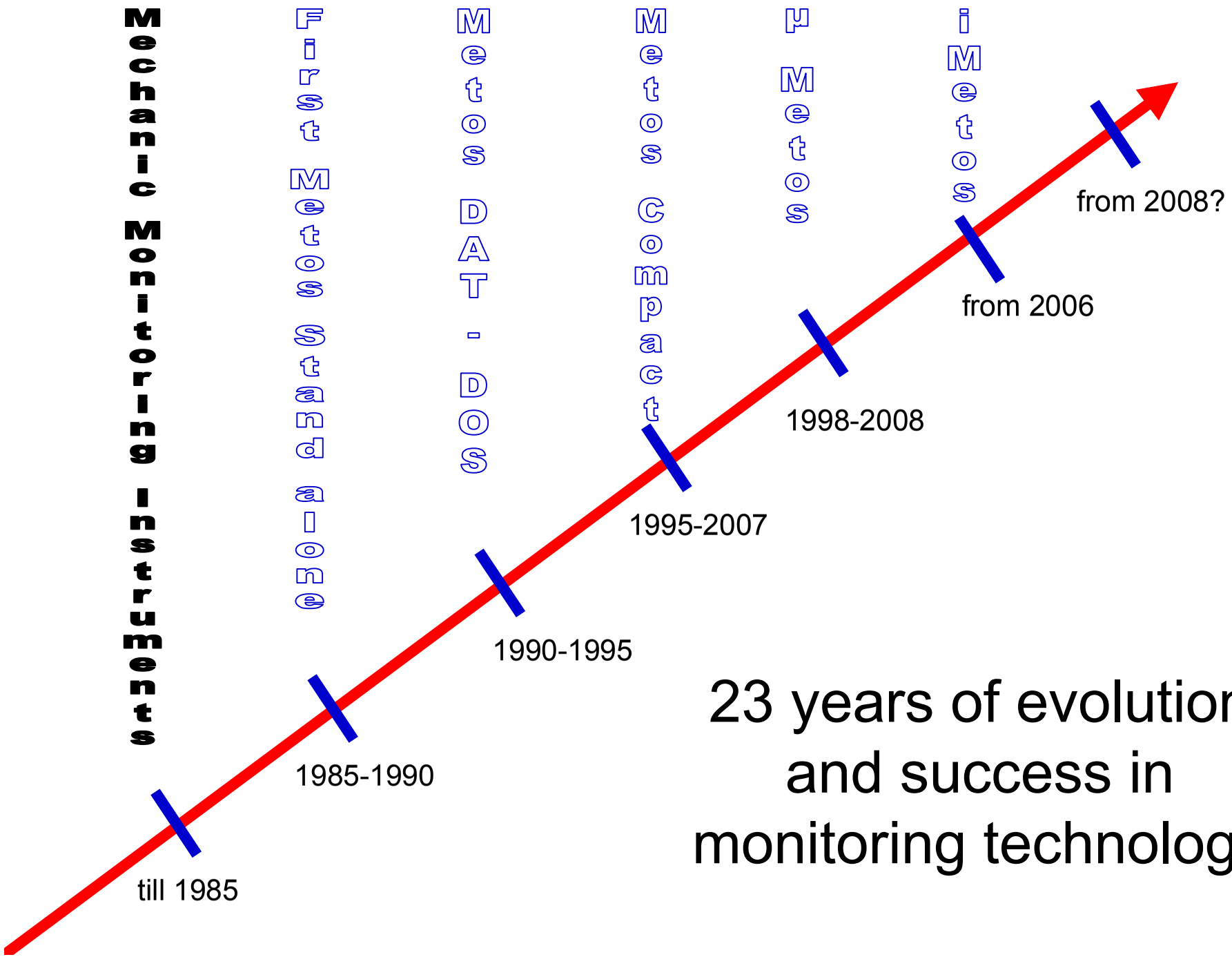
www.fieldclimate.com



Three Years of Experience with Online Plant Protection Services

Pessl Instruments



23 years of evolution and success in monitoring technology

iMetos Concept



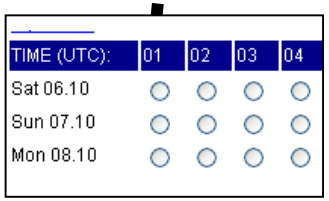




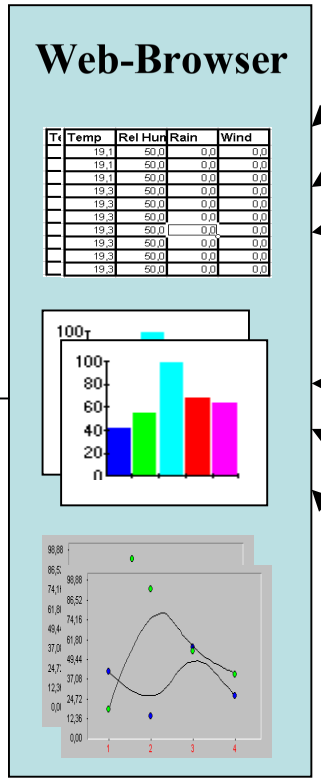


Access to one or more stations!

Internet Database



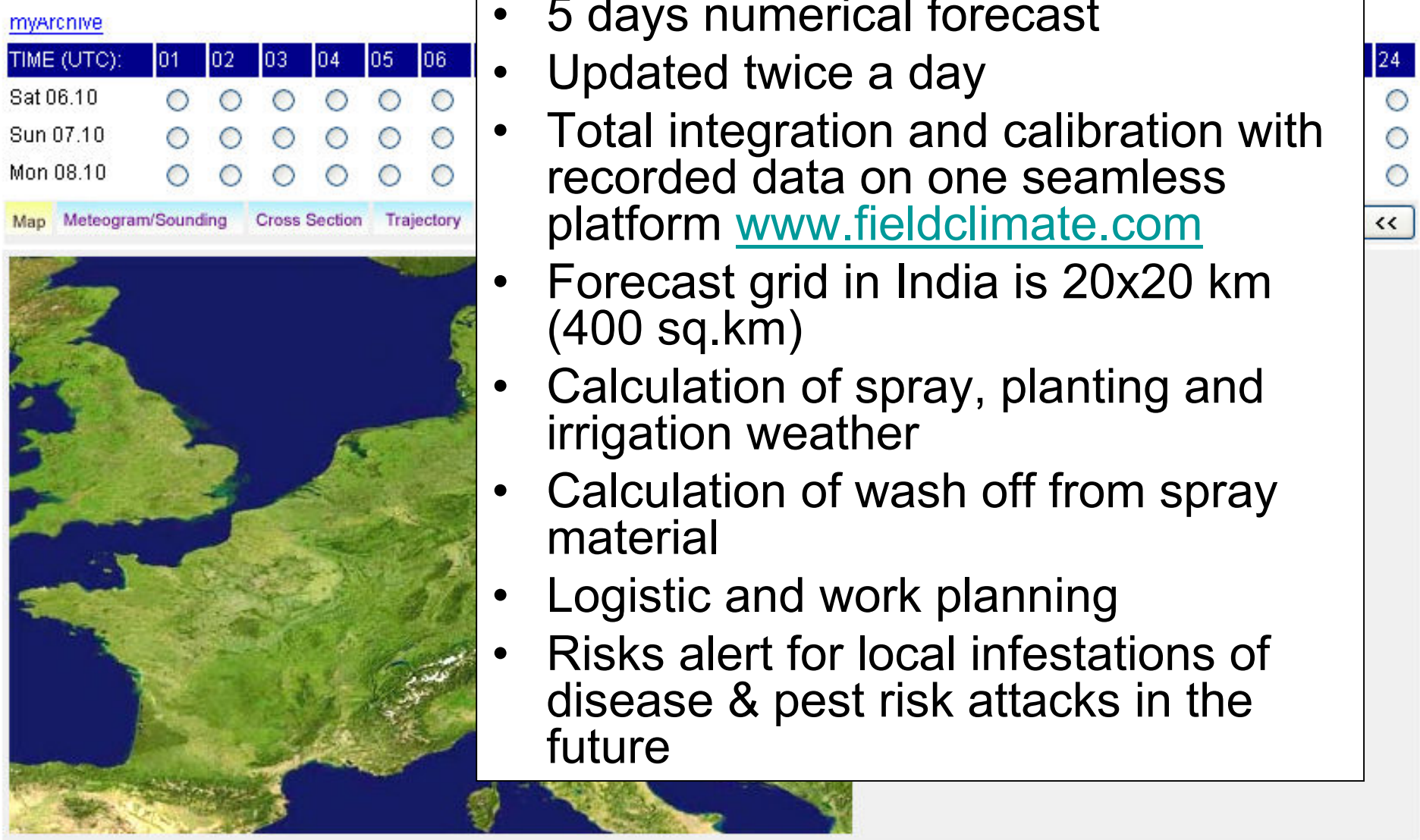
Local Weather forecast



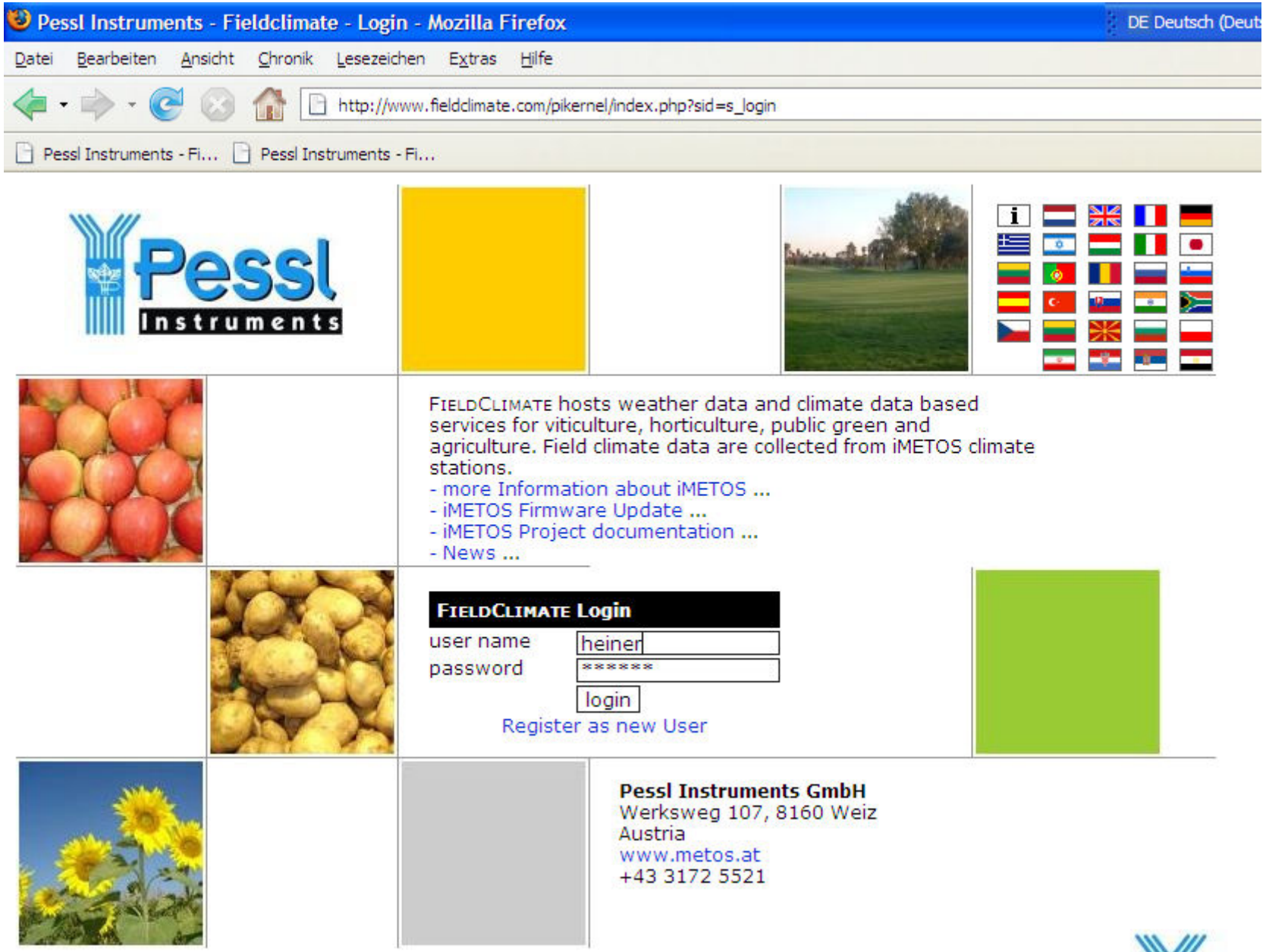


Farmer, Consultant, Farm chemical supplier etc.

Local weather forecast



- 5 days numerical forecast
- Updated twice a day
- Total integration and calibration with recorded data on one seamless platform www.fieldclimate.com
- Forecast grid in India is 20x20 km (400 sq.km)
- Calculation of spray, planting and irrigation weather
- Calculation of wash off from spray material
- Logistic and work planning
- Risks alert for local infestations of disease & pest risk attacks in the future

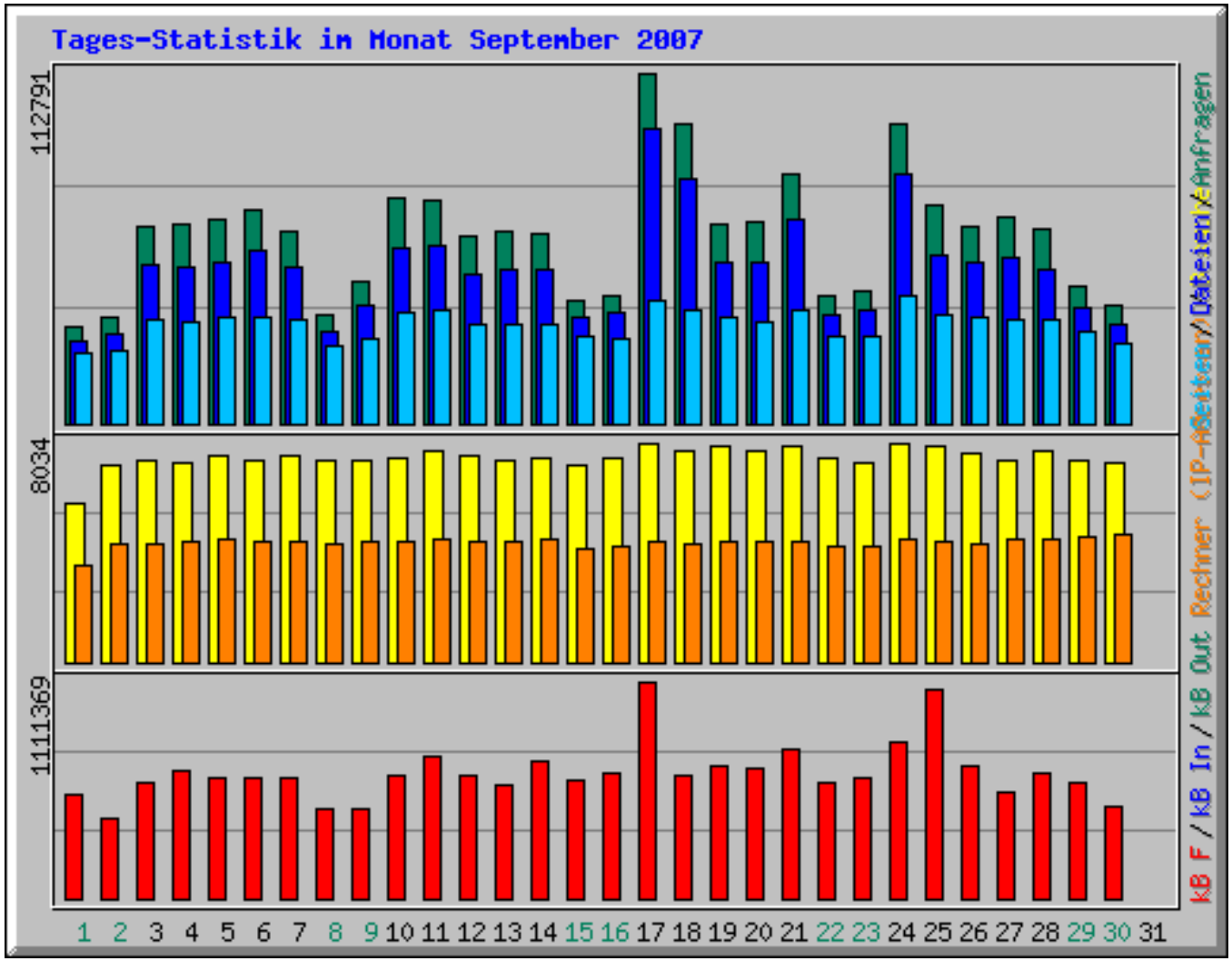


FieldClimate.Com - entry point

Web Services

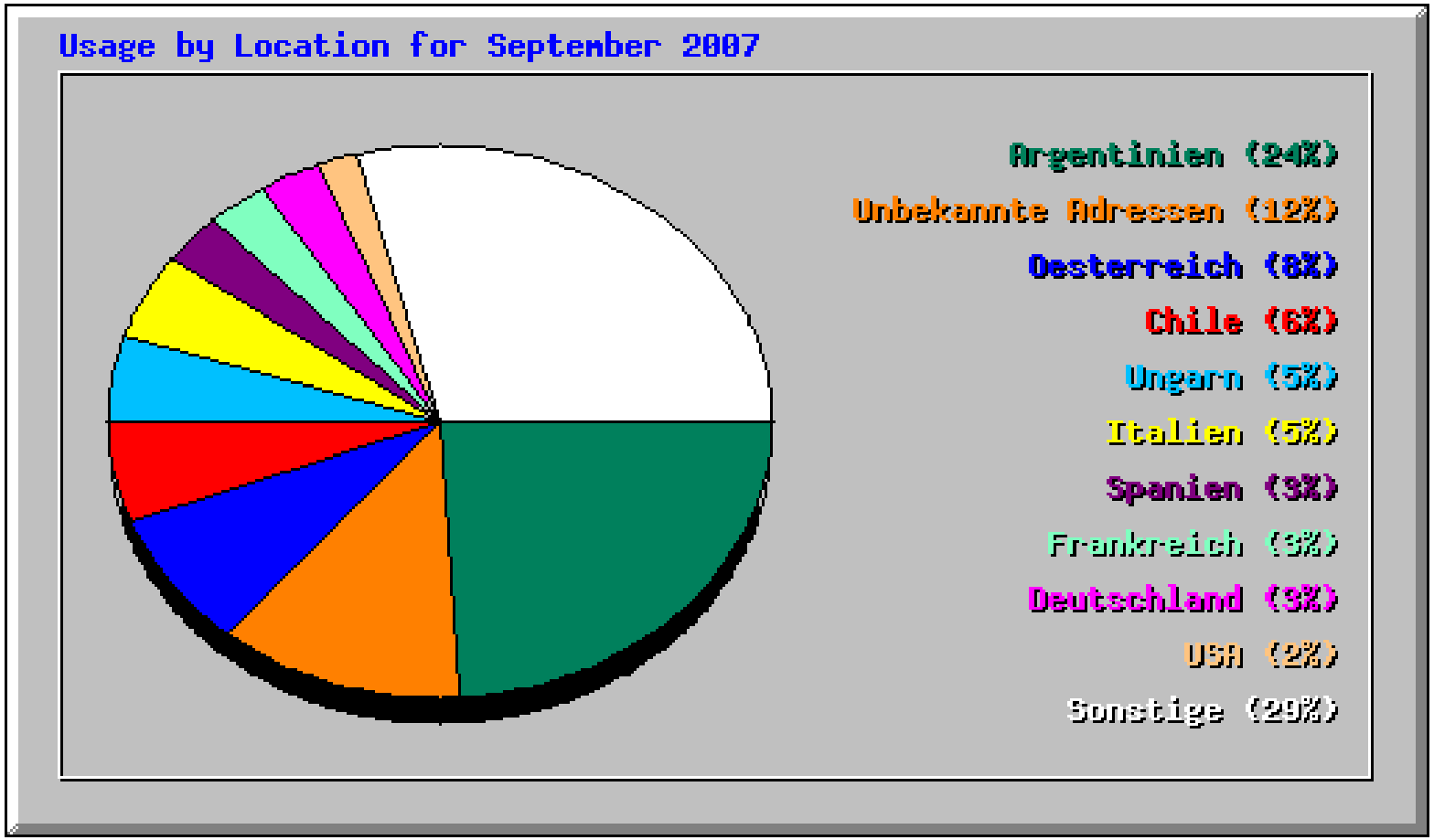
- Data management (Graphs & tables)
- Irrigation Management (Irrimet)
- Plant Protection (Early Warning)
- Precision local weather forecast
- Traceability (Spray diary etc.)
- Warning & Alerting (SMS) – i.e. Floods
- Automation & Remote Activation (ICA – Internet Central Automation)

In September 2007 – www.fieldclimate.com was giving services to 1.613 iMetos monitoring devices



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In September 2007 2,846 users have been registered on www.fieldclimate.com
2.818.536 requests have been reported in that month only.



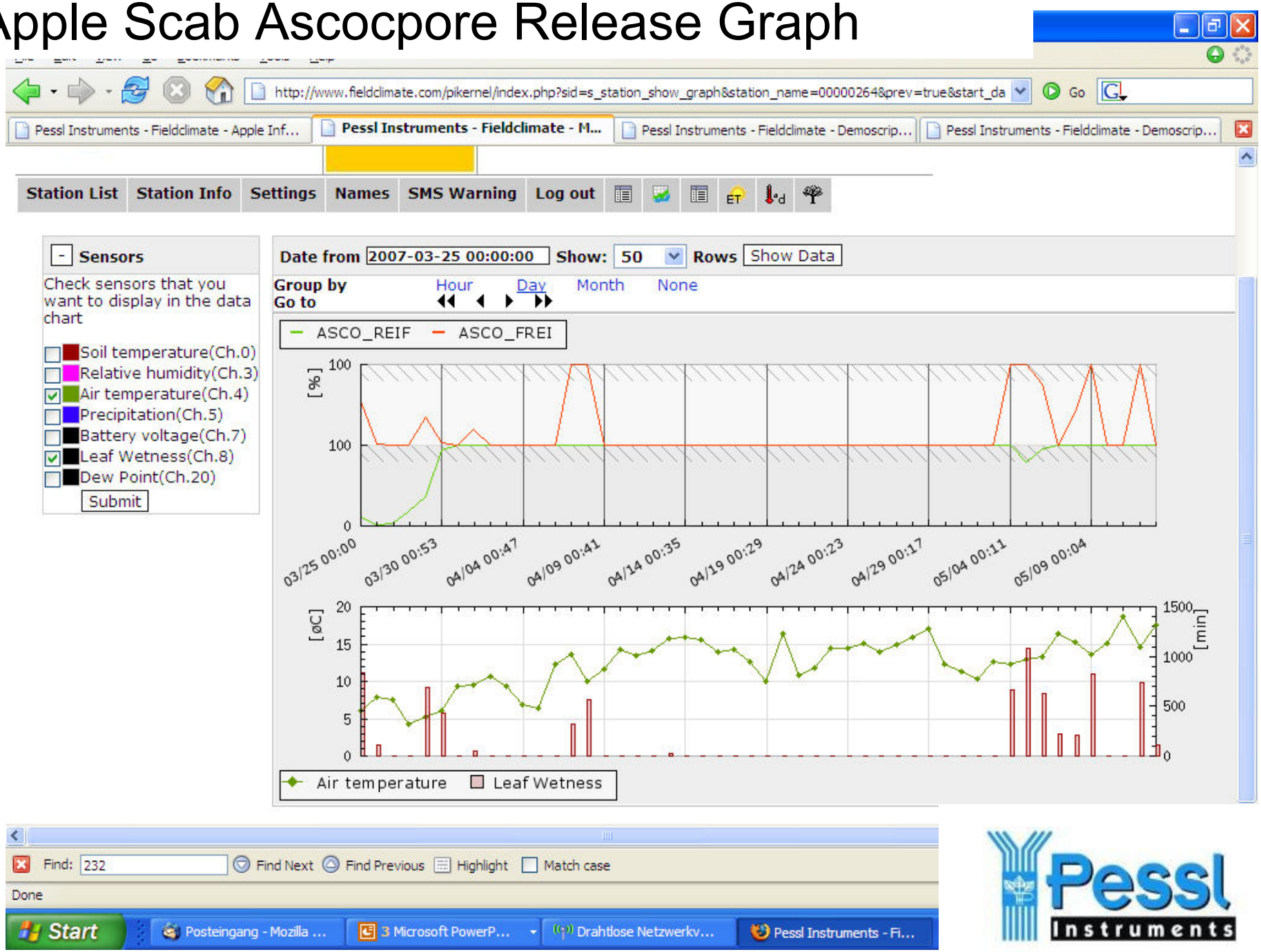
In this period most requests are coming from southern hemisphere.

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Apple/Pear – Plant Protection decision support systems on www.fieldclimate.com

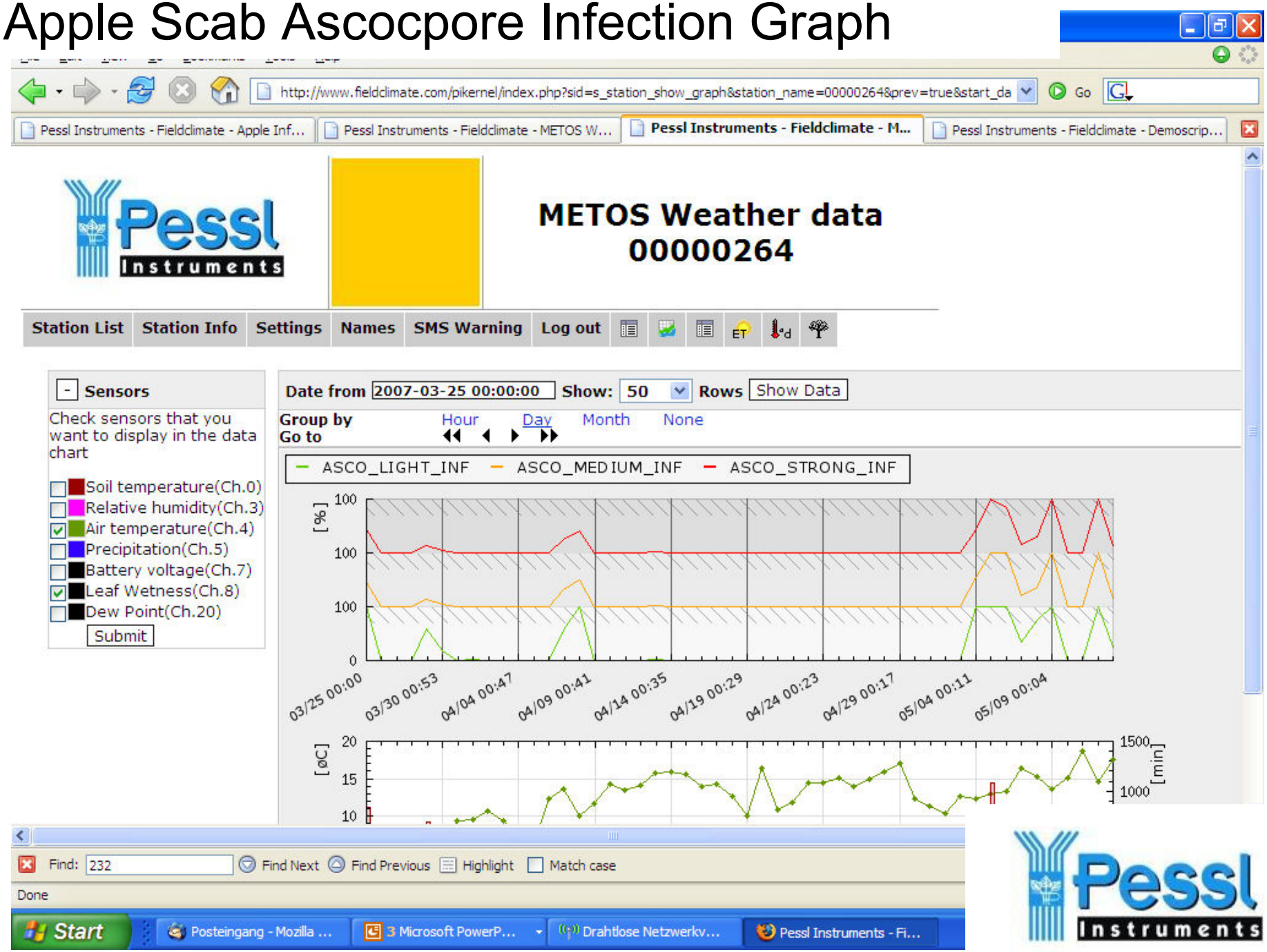
Pome Fruit: Apple Pears	Apple Scab Ascospore Maturation	GADOURY, MCHARDY (1982, 1992)
	Apple Scab Ascospore Infection	SCHWABE (1979, 1980, 1980)
	Apple Scab Conidia Infection	SCHWABE (1980)
	Fire Blight Propagation Risk	SMITH (2000)
	Fire Blight Infection	STEINER (1992)
	Stemphylium versicum	SUHERI and PRICE (2000) LLorent, VILARDELL, BUGIANI, GHERARDI and MONTESINO (2000)
	Pear Scab Infection	Spotts and Cervantes (1991)

Apple Scab Ascocpore Release Graph

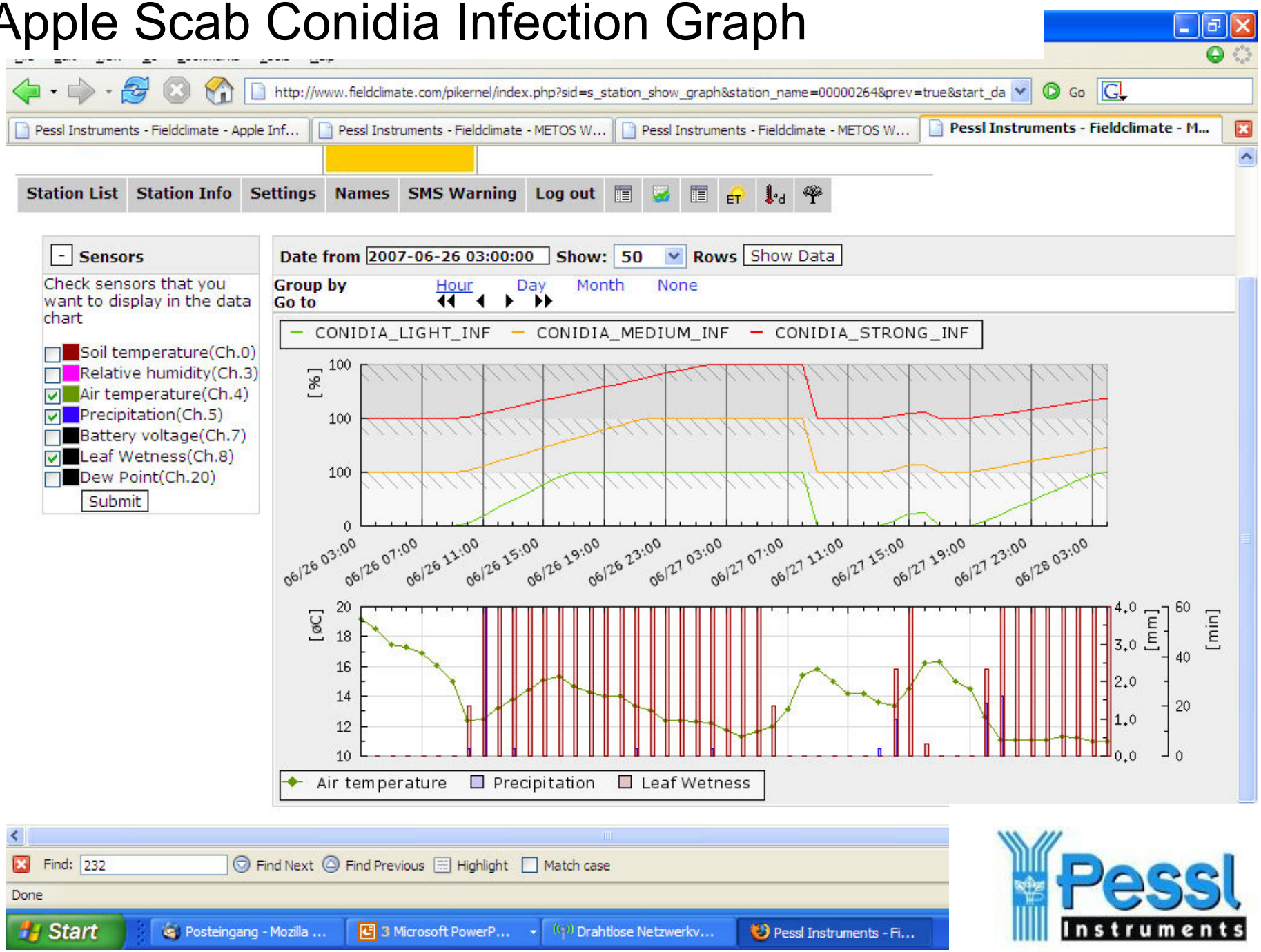


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Apple Scab Ascocpore Infection Graph

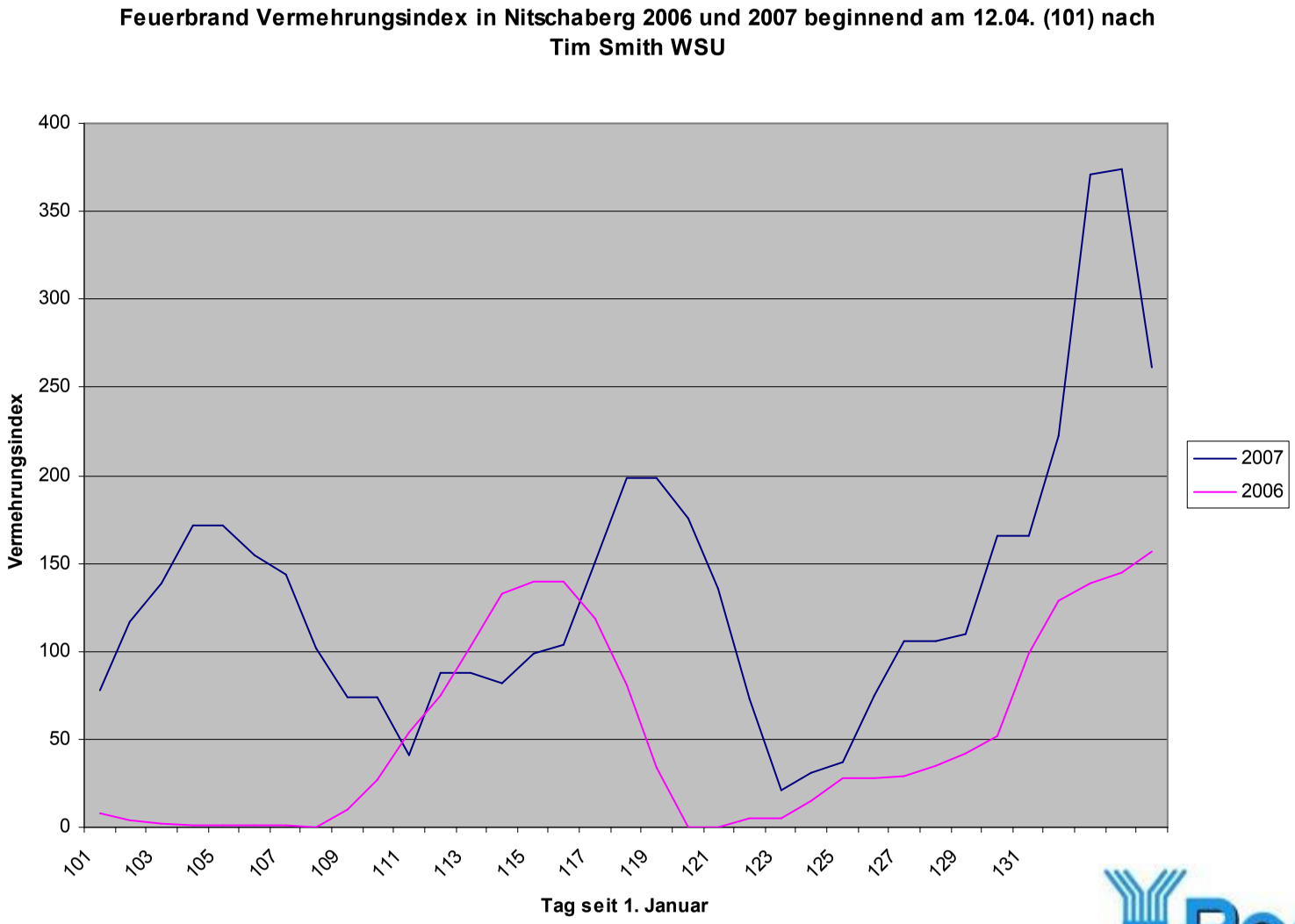


Apple Scab Conidia Infection Graph

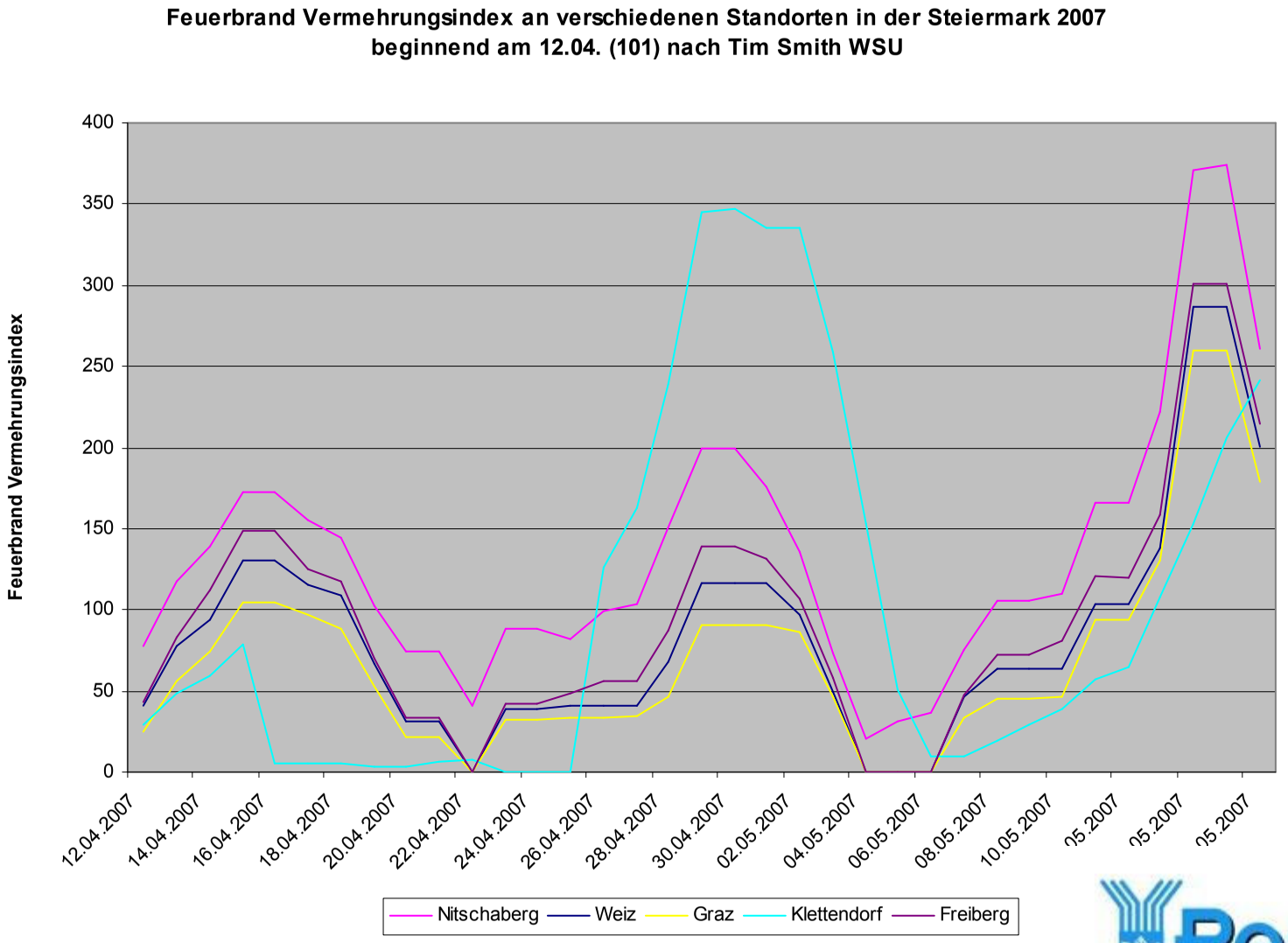


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Fire Blight Propagation Risk in Styria in the Year 2006 and 2007



Fire Blight Propagation Risk Results in 2007 on several sites in the Styrian Apple growing area



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Vegetable Plant Protection Models on www.fieldlimate.com

Asparagus	*Stemphylium versicum*	SUHERI and PRICE (2000) LLorent, VILARDELL, BUGIANI, GHERARDI and MONTESINO (2000)
	Botrytis cinerea	BROOME (1992)
	Puccinia asparagi	Lenna, P. di; Benedettelli, S.; Folletto, B. (1995)
Carrots, Red Beet, Onions	*Sclerotinia sclerotina*	eigen
	Cercospora beicola	BLEIHOLDER und WELTZIEN (1971), SHANE and TENG (1983)
	Alternaria daucii, *A. alternata*	TOMCAST
	Peronospora destructor	DOWNCAST
	Botrytis squamosa	VINCELLI (1988)
Potato	Late Blight	
	Negative Prgnosis	SCHRÖDTER und ULLRICH (1966)
	NegFry	FRY (2000)
	NoBlight	JOHNSON (2005)
	Smith Periods	SMITH (….)
	Early Blight *Alternaria daucii*, *A. alternata*	TOMCAST

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Tomato Plant Protection Models on www.fieldclimate.com

Tomato	*Leveillula taurica*	Guzman-Plazola (1997)
	Botrytis cinerea	BROOME (1992)
	Septoria lycopersici	ZITTER (1987)
	Colletotrichum gloeosporioides, C. coccodes	BYRNE, HAUSBECK and HAMMERSCHMIDT (1997)
	Cladosporium fulvum	University of Illinoi Extensio (1989)
	Negative prognose	SCHRÖDTER und ULLRICH (1966)
	NegFry	FRY (2000)
	Alternaria daucii, *A. alternata*	TOMCAST
	Sclerotinia sclerotina	eigen
	Phytophtora capsici	ROBERTS, McGOVERN, KUCHAREK and MITCHELl (2000)

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Field crop plant protection models on www.fieldclimate.com

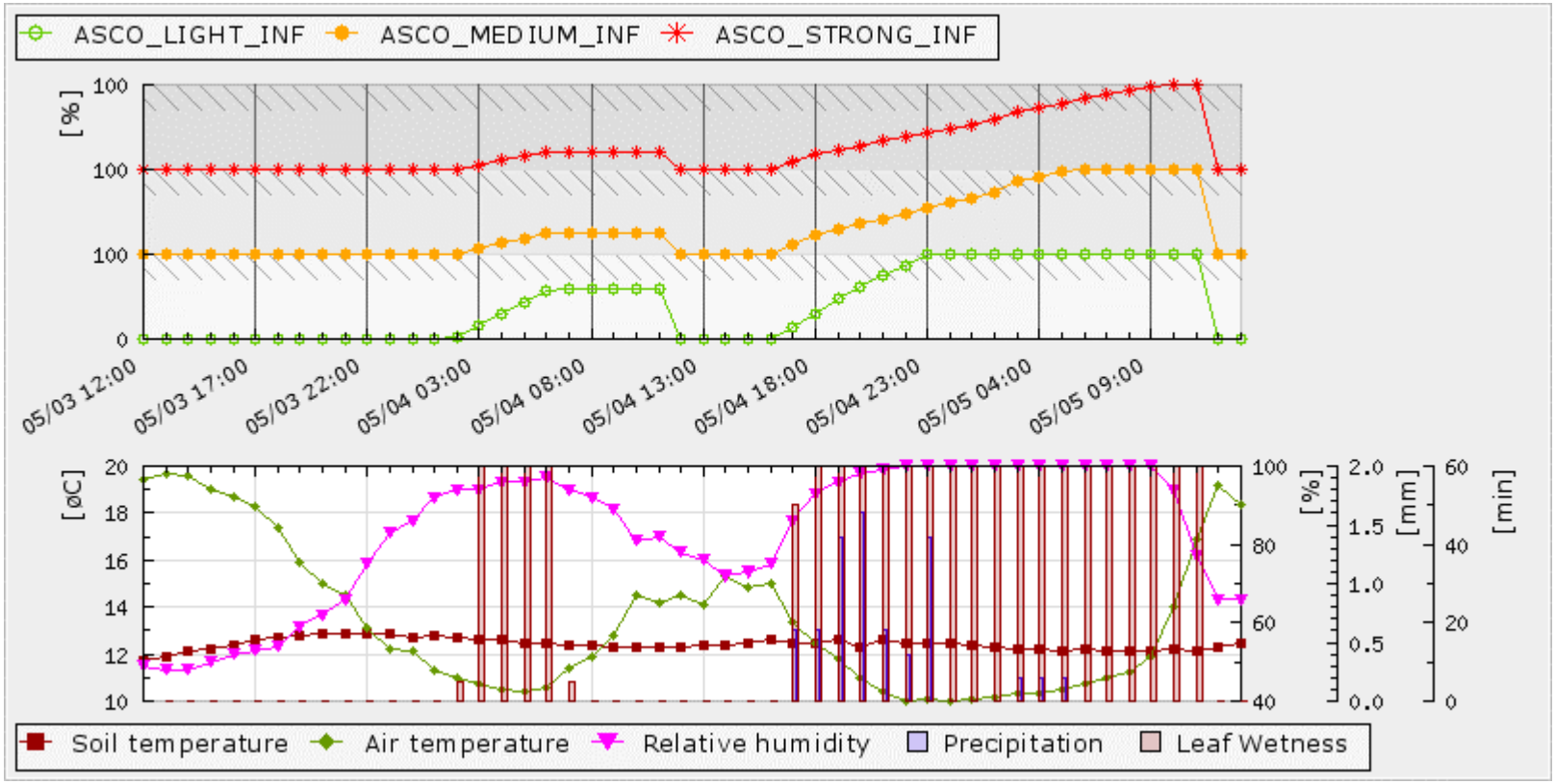
Wheat	FHB (*Giberella ssp*)	Obst, Lepschy-Von Gleissen-thall, and Beck (1997)
	Sepzoria tritici	various
	Puccinia ssp	various

Corn	*Helmintosporium mayidis*	University of Illinois Extension
	Cercospora zeae-maydis	PAUL, and MUNKVOLD (2004)

Soya Bean	*Phakopsora pachyrhizi* *Asian soya rust disease*

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Graphical Representation of the Infection Progress



How to access the www.fieldclimate.com data?

- **Manually by a web browser**
  - Access on all measured or calculated data in graphic or table form
- **By the SOAP Interface**
  - PI supports you by an example to download the data into a local access data base
  - PI supports you by an PHP example to download the data into a third party website

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Conclusion

- Reliable communication over the past 3 years
- High security of data
- Easy access through multilingual platform
- Remote access with password from any place in the world
- Cost effective
- Flexibile solutions and progamming tools for integrators and researchers available