

IOBC WG „Pesticides and Beneficial Organisms“

Report for the period 2001 to 2005



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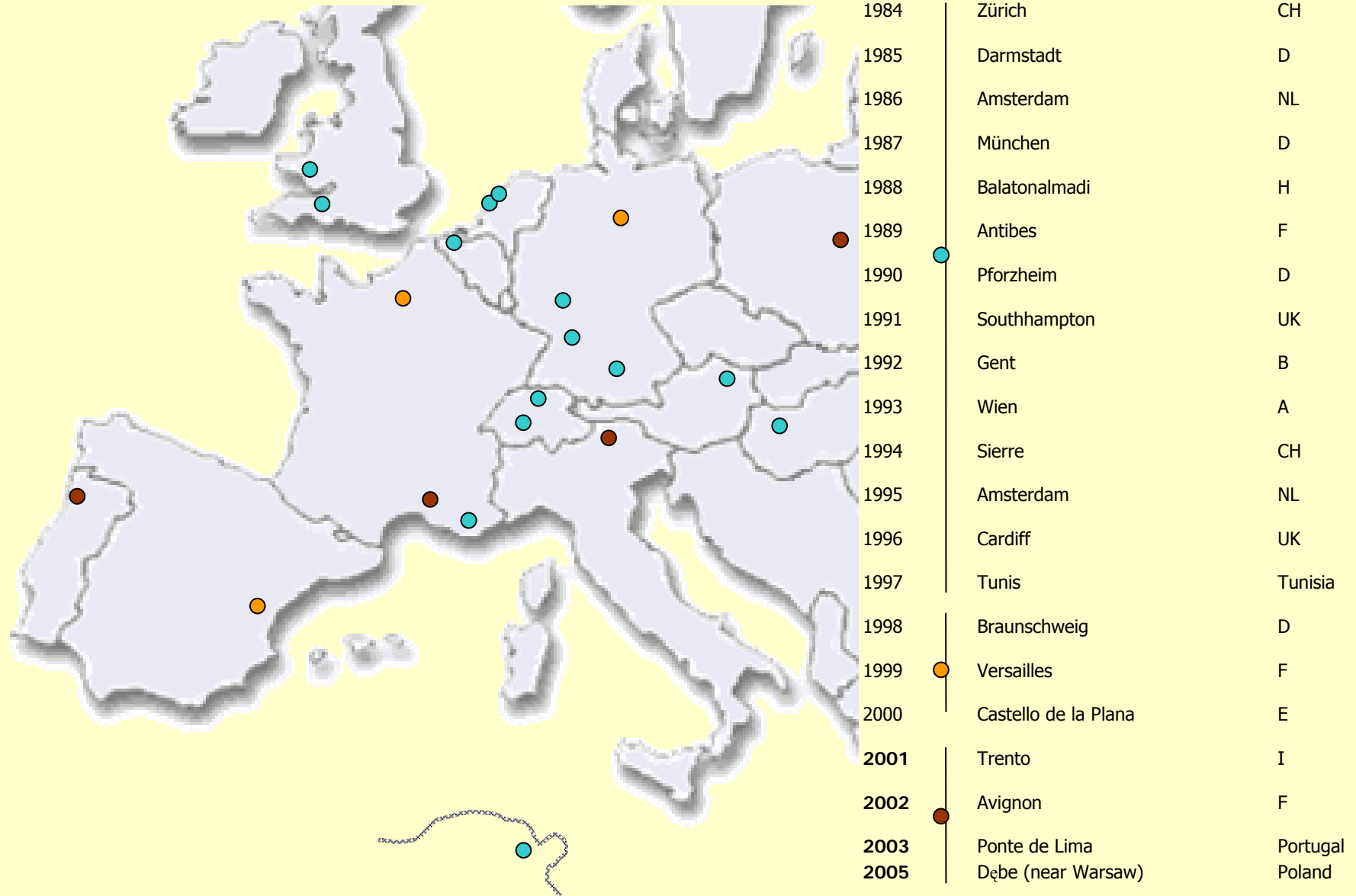
IOBC WG „Pesticides and Beneficial Organisms“

Meetings

| Year | Locality, Country | Host | Partici- pants (<i>Countries</i>) | Presen- tations |
|------|----------------------------|---|---|--------------------|
| 2001 | San Michele, Italy | Istituto Agrario, Dr. Diego Forti | 74 (10) | 27 |
| 2002 | Avignon, France | Université Ste. Marthe, Margrit Engelhardt | 80 (12) | 27 |
| 2003 | Ponte de Lima, Portugal | Escola Superior Agrária, J.R. Rodriques | 80 (12) | 23 |
| 2005 | Dębe Poland | Res. Inst. of Pomology & Florticulture, Skierniewice, Prof. Dr. R. Olszak | 50 (14) | 23 |

IOBC WG „Pesticides and Beneficial Organisms“

Localities of Meetings



Joint Activities / Joint Research Programmes Proposed Topics

- ✓ a) *Side-effect testing with soil living organisms*
(for testing substances persistent in soil, seed dressings or granules, herbicides)
- b) *Species specific trigger values or „What does a certain effect size mean for a certain species in the real world?“*
- (✓) c) *Methodology in side-effect field tests in different crops*
- ✓ d) *Pesticide side-effects in protected crops in different climatic regions*
- e) *Pesticides and entomopathogenic nematodes and microbials*

Joint Pesticide Testing Programmes



Activities cannot be covered anymore as in former years (due to costs of testing, reduction in staff, no routine testing in research labs., etc.)

Compilation of Side-Effect Data

Together with the IOBC Commission on „IP-Guidelines and Endorsement“ a table has been finalized including more than 170 pesticides

Actually it is an internal document, but publication is intended, preferably on the IOBC homepage; printed version ?

**IOBCwprs Working Group
"Pesticides and Beneficial
Organisms**

&

**IOBCwprs Commission "IP
Guidelines and
Endorsement"**

(13.12.2004 Comm.)

Classification of side effects to beneficial organisms

N = harmless or slightly harmful (Reduction 0-30% lab, 0-50% sf, f)

M = moderately harmful (Reduction 30-79% lab, 50-75% sf, f)

T = harmful (Reduction > 80% lab, > 75% sf, f)

Normal black entries = **laboratory data** (IOBC)

Bold black face = **semi-field test data** (IOBC)

Asterix * marked black entries = **Field test data** (IOBC)

Red = additions by Commission (expert judgments), final classification pending

Pink marked data = data added by Commission (expert judgments)

1. Predatory mites (*Typhlodromus pyri*)
2. Predatory mites (*Phytoseiulus persimilis*)
3. Spiders (*Pardosa* spp.)
4. Spiders (*Cheiracanthium mildei*)
5. Flower bugs (*Anthocoris nemoralis*)
6. Flower bugs (*Orius laevigatus*)
7. Lacewings (*Chrysoperla carnea*)
8. Lady bird beetles (*Coccinella 7-punctata*)
9. Rove beetles (*Aleochara bilineata*)
10. Ground beetles (*Poecilus cupreus*)
11. Parasitoids (*Aphidius rhopalosiphi*)
12. Parasitoids (*Trichogramma cacoeciae*)
13. Hoverflies (*Syrphus corollae*)

14. Toxicity to bees
15. Toxicity to
earthworms
(*Eisenia foetida*)
16. Fish Toxicity

Code number of beneficial organism

| Active ingredient | Type* | Form. | Conc. g ai/ha | Code number of beneficial organism | | | | | | | | | | | | | | | | | | |
|-------------------|-------|---------|---------------|------------------------------------|----|---|---|---|---|---|----|---|----|----|----|----|----|----|----|------|-----|---|
| | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | | | |
| Abamectine | A | 18 EC | 13.5 | N - T | T | | | | T | N | N | | | T | T | | + | | + | (II) | | |
| Amitraz | A | 200 g/L | 0.3 | 360 | T* | T | | | M | | M | T | T | | | T | T | - | | + | III | |
| Azadirachtine | A | 1% T/S | 30 | N | T | | | T | N | | N* | N | | N | M | T | M | - | | - | (U) | |
| Azocyclotin | A | 25 WP | 0.1 | | | | | | | | T | | | | | T | | - | | + | II | |
| Benzoximate | A | 200 g/L | 0.15 | | | | | | | | M | | | | | M | | - | | | O | |
| Bromopropylat | A | | | | | | | | | | M | | | | | N | | - | | + | U | |
| Clofentezine | A | 500 g/L | 0.04 | N* | N | | | N | | | N* | | | N | N | N | | | | | - | U |

* Type

I = Insecticide F = Fungicide A = Acaricide H = Herbicide

PGR = Plant Growth Regulator

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Publications

Vogt, H. & Viñuela, E. and Jacas, J. (Eds.) **2001**: Pesticides and Beneficial Organisms. Proceedings of the meeting at Castelló de la Plana, Spain, 18-20 October 2000. **IOBC/WPRS Bulletin 24 (4)**. (*17 contributions, 136 pages*)

Vogt, H. & Heimbach, U. (Eds.) **2002**: Pesticides and Beneficial Organisms. Proceedings of the meeting at San Michele All'Adige, Trento, Italy, 3 – 6 October, 2001, **IOBC/WPRS Bulletin Vol. 25 (11)**. (*15 contributions, 121 pages*)

Vogt, H., Heimbach, U & E. Viñuela (Eds.) **2003**: Pesticides and Beneficial Organisms. Proceedings of the meeting at Avignon, France, 8 – 11 October 2002, **IOBC/WPRS Bulletin Vol. 26 (5)**. (*16 contributions, 127 pages*)

Vogt, H. (**2004**): Pesticides and Beneficial Organisms, Proceedings of the meeting at Ponte de Lima, Portugal, 8-10 October 2003, **IOBC/WPRS Bulletin Vol. 27 (6)**. (*17 contributions, 111 pages*).

Outlook

- Side-effect testing has become a “business” subject; this can interfere with the openness of discussions
- Main test guidelines are finalized
- WG character has diminished, but not the importance of the subject reflected by the great number of participants at the meetings

Outlook

The WG will remain an important forum for bringing together experts working in the field of “side-effects” of pesticides and for elaborating the basic information necessary for IPM and the preservation of beneficial organisms.

There always will be some kind of cooperation within the WG. To which extent may differ and depend from the urgency of questions, persons willing to chair a sub-group and funding of research topics in this field.

Outlook



Concerning the meetings, the biannual rhythm is appropriate. In case sub-groups are established and need annual meetings, this can be arranged and supported by the IOBC.

It is desirable to attract some more contributions for the meetings and I would be grateful for support and hints e.g. from crop-related IOBC WGs.

Thank you for your attention !