

The COPS Operations Center

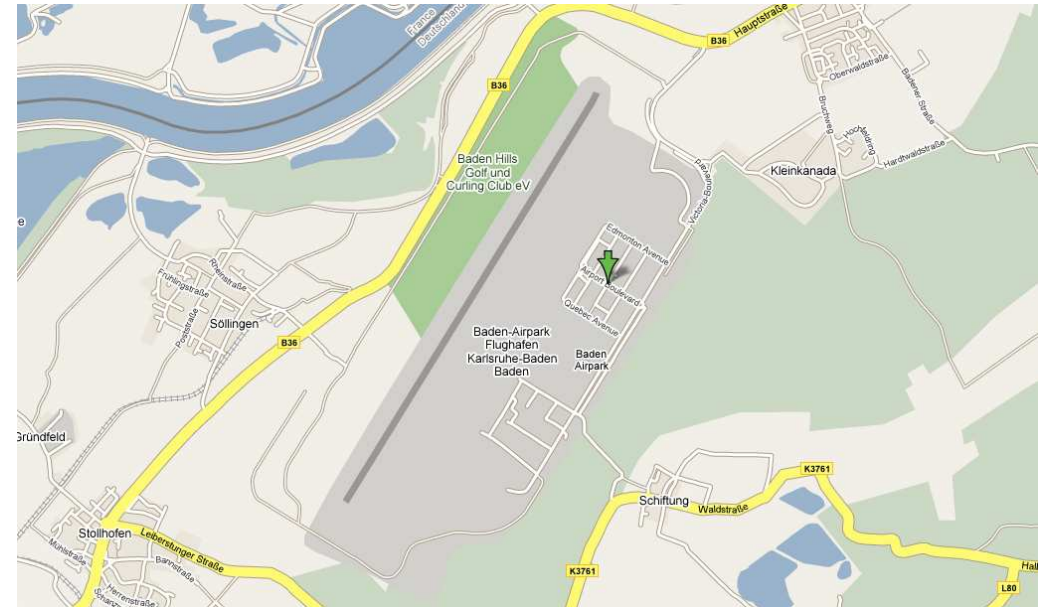
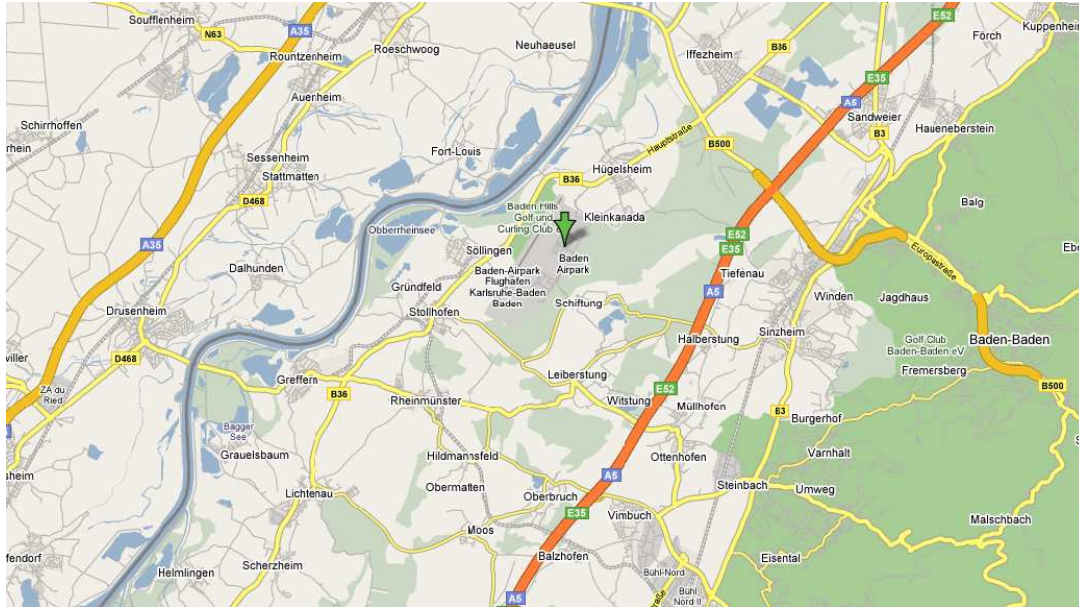
Christian Barthlott, Ulrich Corsmeier, Christoph Kottmeier

5th COPS Workshop Hohenheim

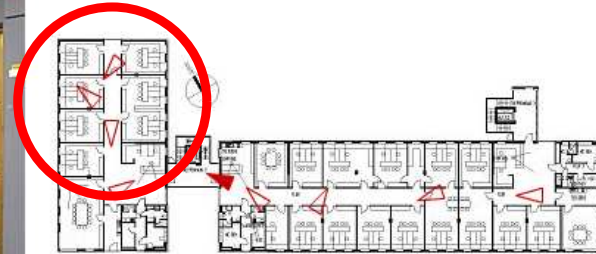
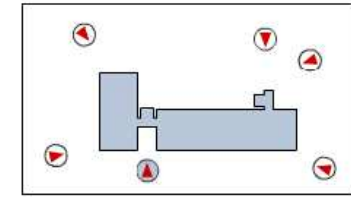


1. Location and Layout
2. Operations Coordination: Suggestion for OC Staff and Mission Planning
3. Status quo of NinJo
4. Operations Center Homepage: www.cops2007.de
5. Accommodation possibilities at Baden-Airpark
6. Open points

1. Location and Layout

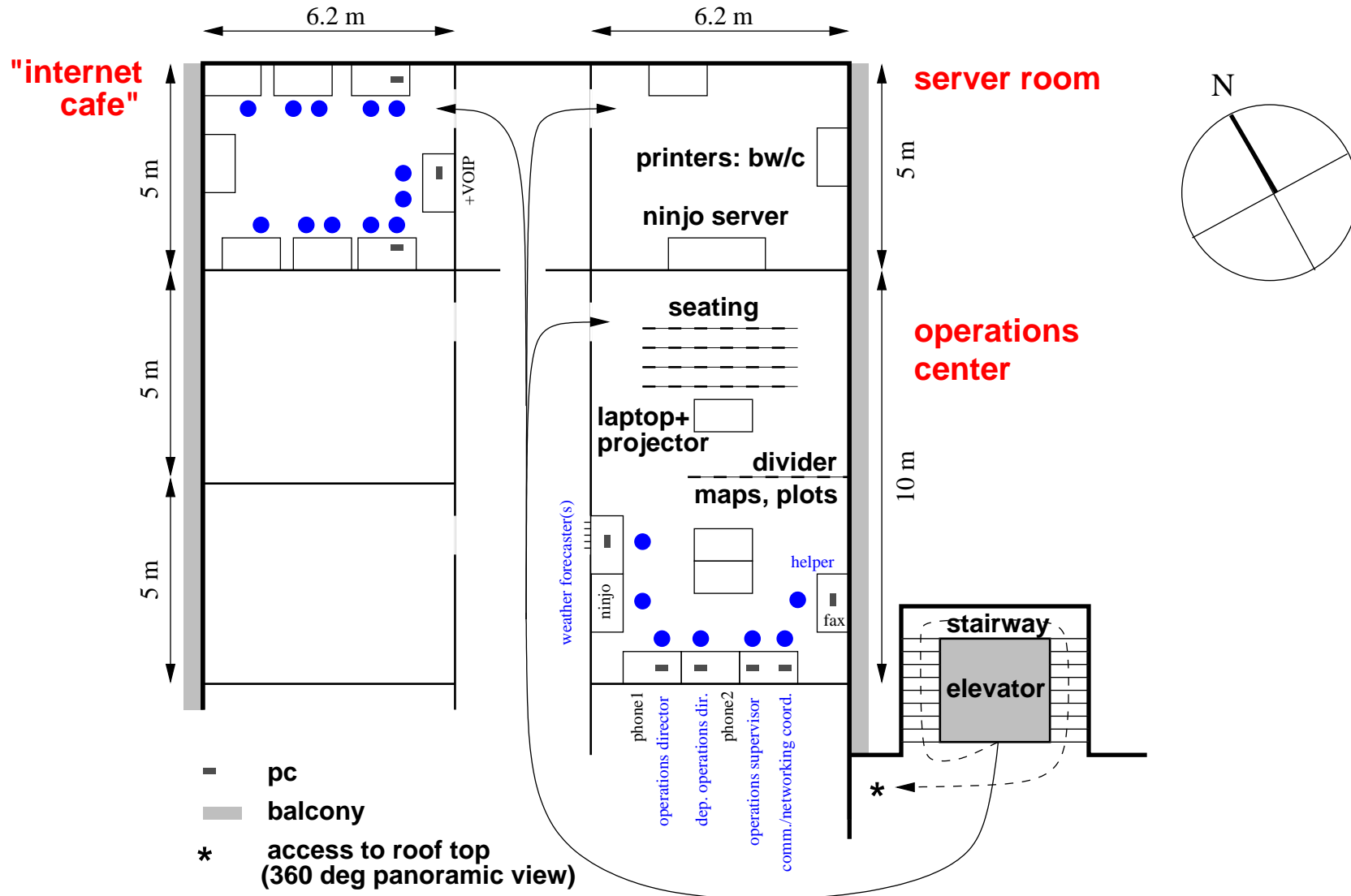


- in Airpark Business Center (ABC) at Baden-Airpark <http://www.badenairpark.de/>
- located near COPS central region, close to aircraft crews, easy access by car and public transport, enough parking space
- outside of the safety area \implies for everyone accessible
- 3 rooms have been rented, configuration and installation will start in May

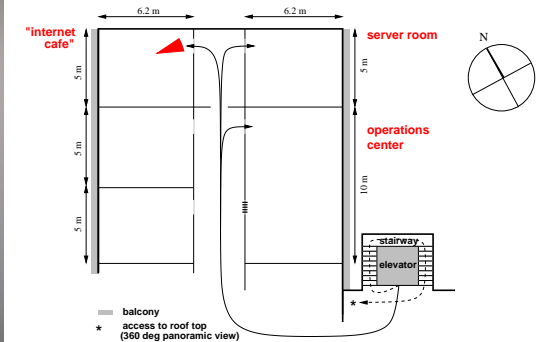
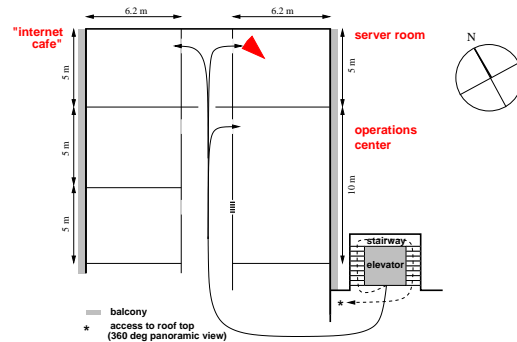
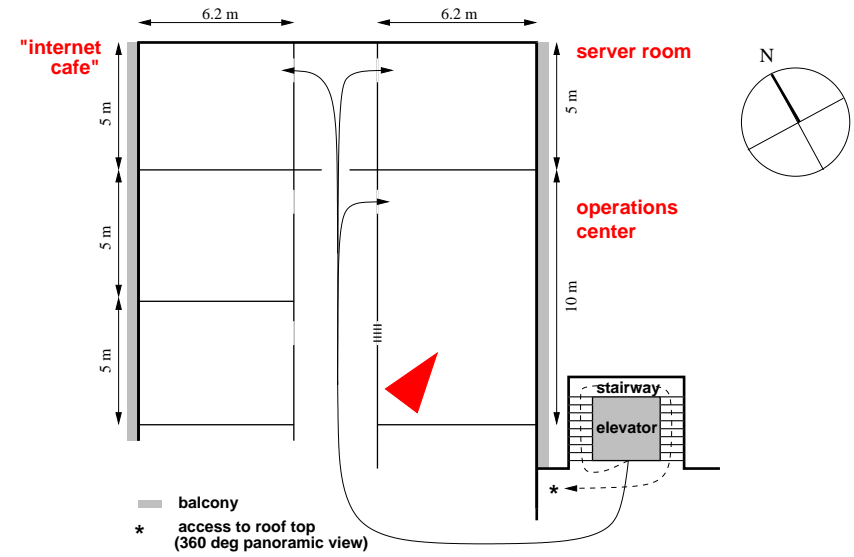


4th floor of western part of ABC, access to rooftop with 360 deg. panoramic view

Layout: Division in OC, Server Room and "Internet Cafe"



Interior View



Weekly debriefings in the conference room “Venezia“



- 2 min. away from OC
- place for up to 200 seatings
- stage with 70 m²
- permanently installed video projector and sound system
- internet connection
- reserved every Friday



2. Operations Coordination

Proposed composition of Mission Selection Team (MST) and Operations Center Team (OCT):

MST	OCT	Function	Candidates
×		4 WG Representatives	WG Representatives CI, ACM, PPL, DAP
×	×	Operations Director	Members of the ISSC, Wernli, Kalthoff, 2 DLR members, ...
×	×	Deputy Ops. Dir.	
×	×	Operations Supervisor	Barthlott, Trentmann, Kunz, Kohler
	×	Aircraft Coordinator	COPS Air Crew (Aircraft PI's), 2 DLR members, Finkenzeller/Grillenbeck?
	×	Weather Forecaster 1	Mühr, Groenemeijer, Ehmann, 2 × MeteoFrance, NN
	×	Weather Forecaster 2	
	×	Communications/Networking Coordinator	Brückel, Klinck
	×	Helper	Ehmann, Vonderach, Maisenbacher

Operations Director

- Director for scientific mission decisions
- Convenes and co-chairs the COPS Daily Planning Meeting
- Leads daily mission planning discussion
- Decides the final deployment of mobile facilities, ...

Deputy Operations Director

- supports Ops. Dir. with respect to all his responsibilities
- Notifies ground-based sites of special observing schedules and operating instructions

Aircraft Coordinator

- Acts as single point of contact for all COPS Aircraft Facility Managers; Convenes aircraft briefing and debriefing
- Provides updated information to aircraft during flight operations as necessary to ensure successful missions, ...

Operations Supervisor

- Prepares and presents summary status report for Daily Meeting
- Provides daily input on usage and availability of expendable resources
- Coordinates OC space and systems support, ...

Weather Forecaster 1+2

- Provides weather analysis and forecast for the next 3 days
- Presents weather forecast and outlook at daily planning meeting, ...

Communications/Networking Coordinator

- Manages LAN and related computer support, ...

⇒ We provided a document with detailed description of the functions and responsibilities which was distributed via email prior to this workshop and can be discussed in the WG tomorrow

Daily routine dependant on 4 possible cases

Time (LT)	Participants and responsible persons	Task
-----------	--------------------------------------	------

Day without IOP

0800-1700	Weather forecasters	Present at OC
until 0900	COPS scientists	Deliver status report from all facilities
1000	MST+OCT	Daily planning meeting
1100	Operations supervisor, helper	Distribute daily briefing package

Case A: no IOP tomorrow

1200	OCT	Disposition, control of weather development
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Case B: IOP tomorrow

1100	Operations directors, aircraft coordinator, flight scientists	Aircraft mission briefing
1200	Aircraft coordinator	Provides notification and alerts to ATC
1200	Dep. Obs. Dir.	Notifies ground-based sites of special observing schedules and operating instructions
1200	OCT	Disposition, control of weather development
1700	Weather forecaster(s)	Forecast update

Case C: IOP today

0630	Weather forecasters	Weather analysis and forecast
0700	MST + OCT	Daily planning meeting
0800	Aircraft coordinator	Provides updates to ATC
0800	Operations director, operations supervisor, helper	Distribute daily briefing package
0800	Dep. Obs. Dir.	Notifies ground-based sites of special observing schedules and operating instructions
until 0900	COPS scientists	Deliver status report from all facilities
end of IOP	OCT (+MST)	Observation/modification of scheduled mission

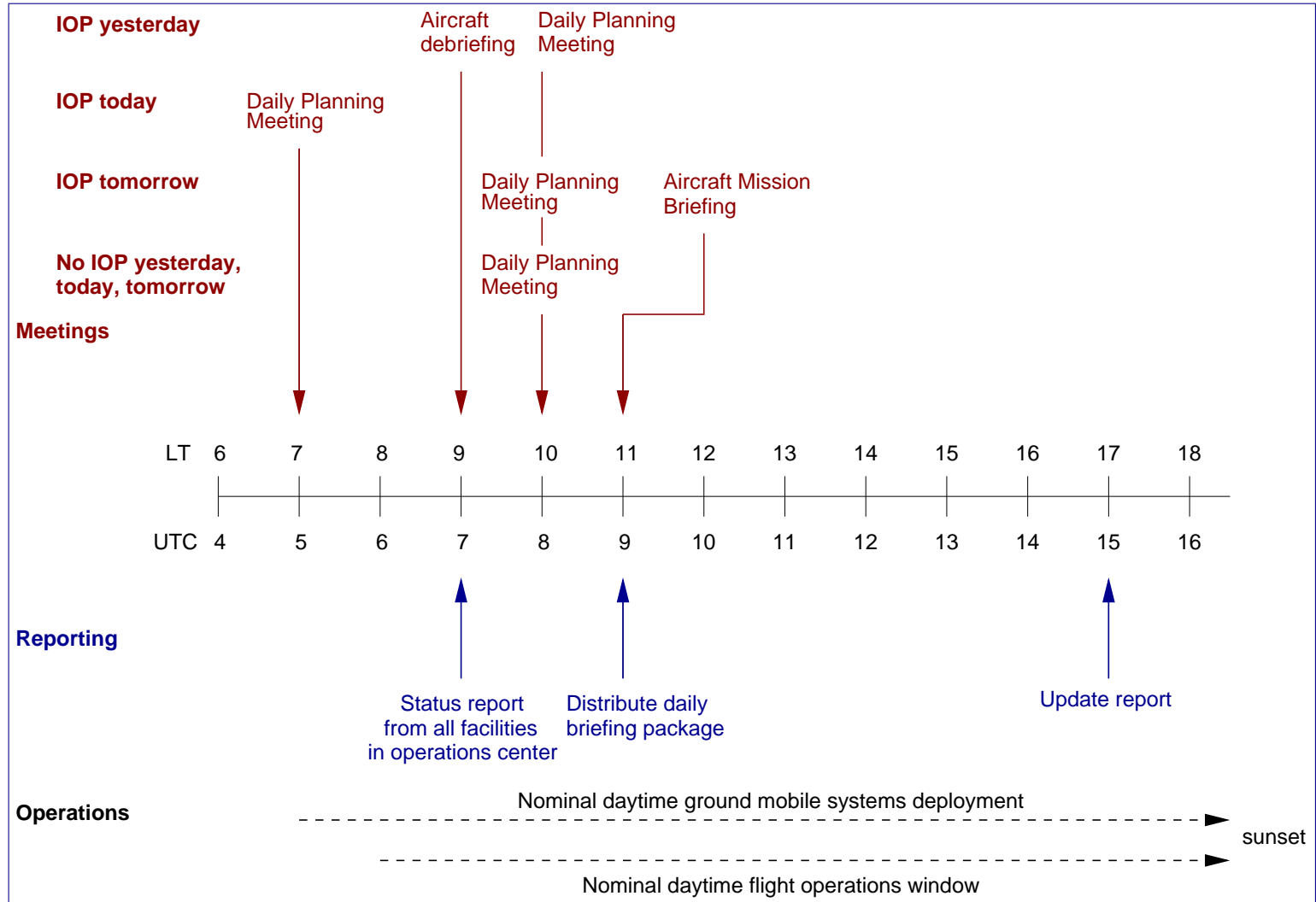
Case D: IOP yesterday

0800-1700	Weather forecasters	Present at OC
0900	Operations director, aircraft coordinator, flight scientists	Aircraft debriefing
until 0900	COPS scientists	Deliver status report from all facilities
1000	MST + OCT	Daily planning meeting
1100	Operations director, operations supervisor, helper	Distribute daily briefing package
1200	OCT	Disposition, control of weather development

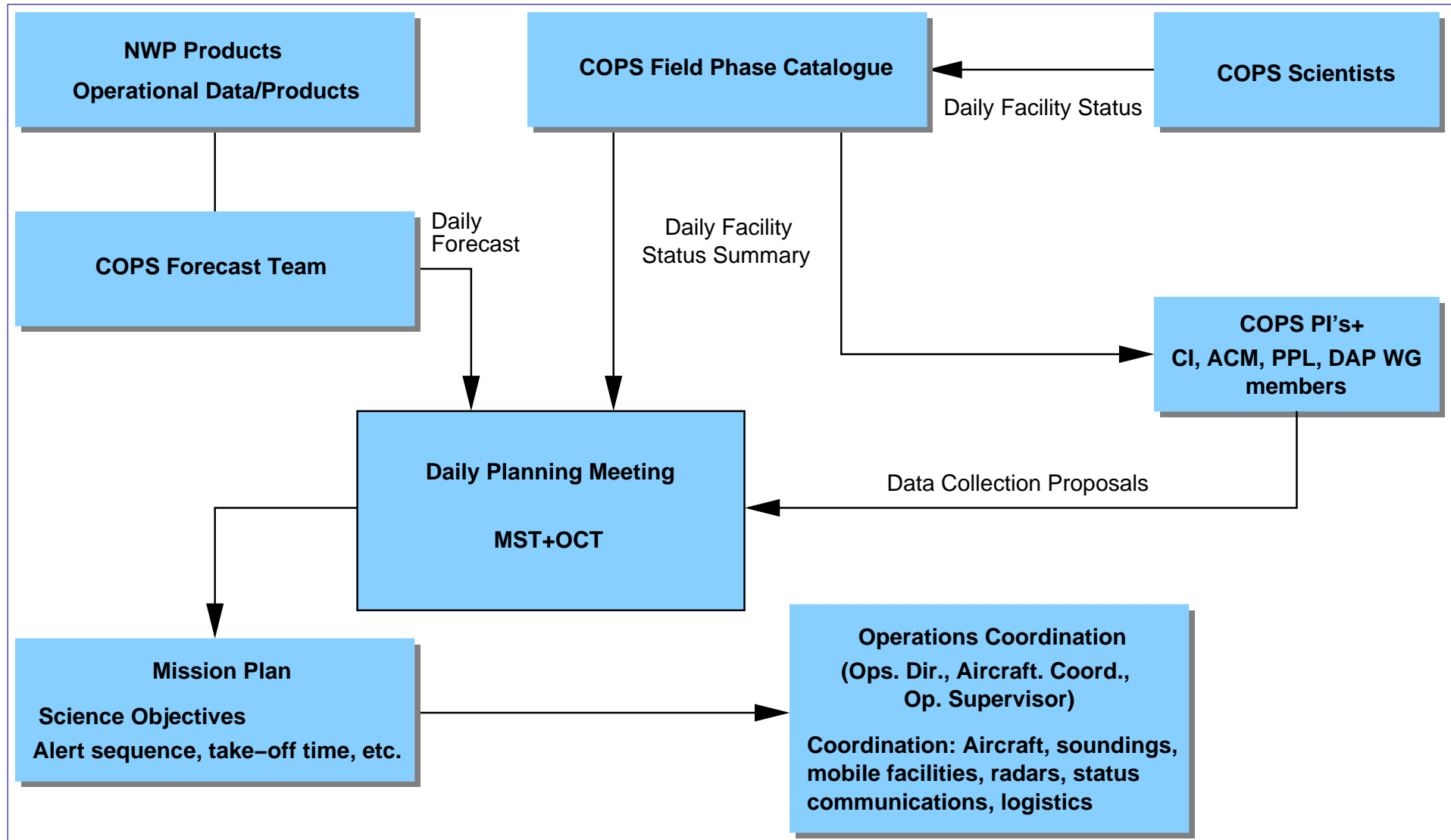
“IOP yesterday“ and “IOP tom.“ → “IOP tom.“; “IOP today“ and “IOP tom.“ → “IOP today“



Daily operations and planning schedule. Valid 7 days/week unless down day.



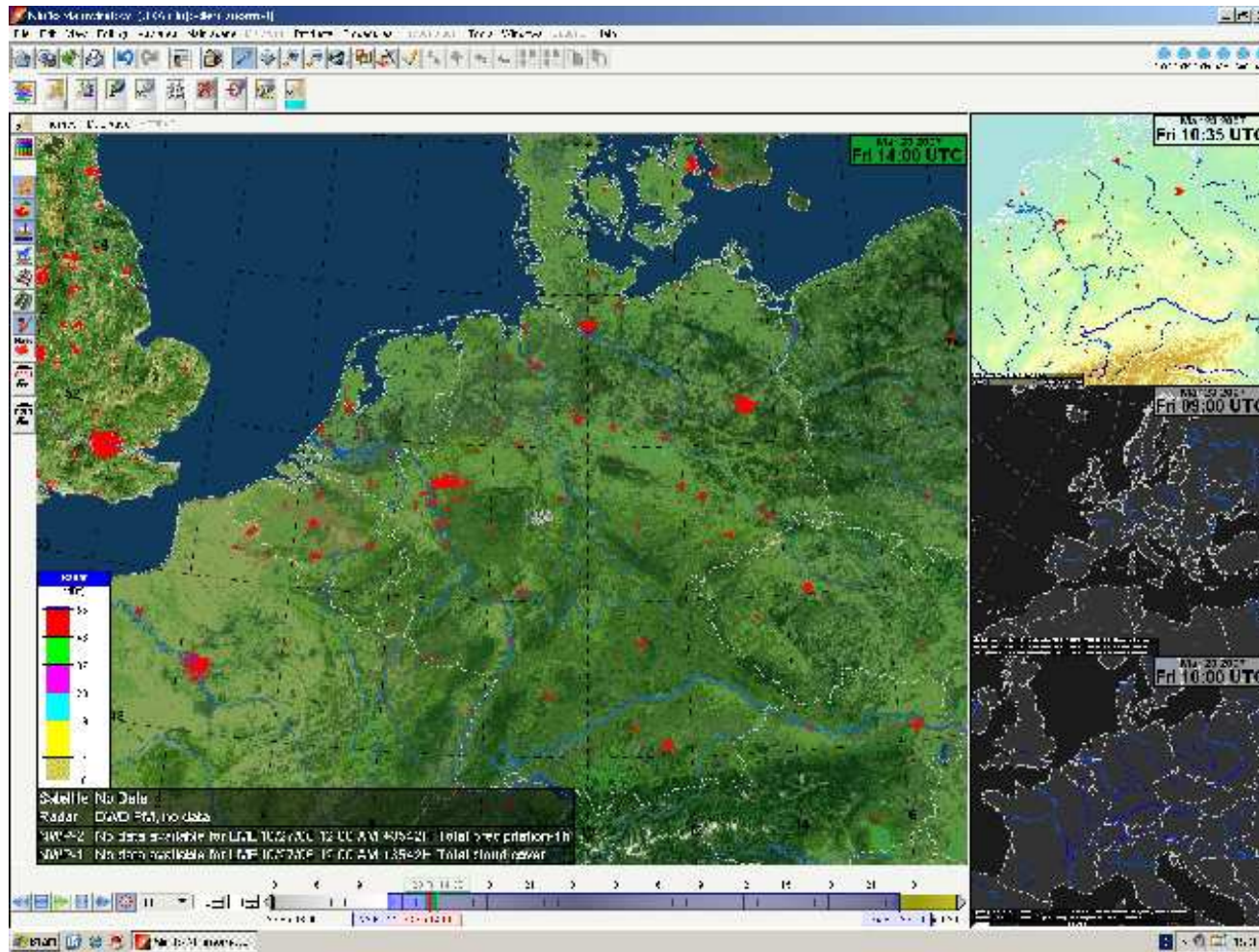
Down days: result of the weather situation, specific amount of consecutive days, significant amount of COPS instruments not operational, remaining resources too small



Schematic of suggested COPS interactions and decision sequences

⇒ WG tomorrow: discuss details, adjustment of OC staff and decision process

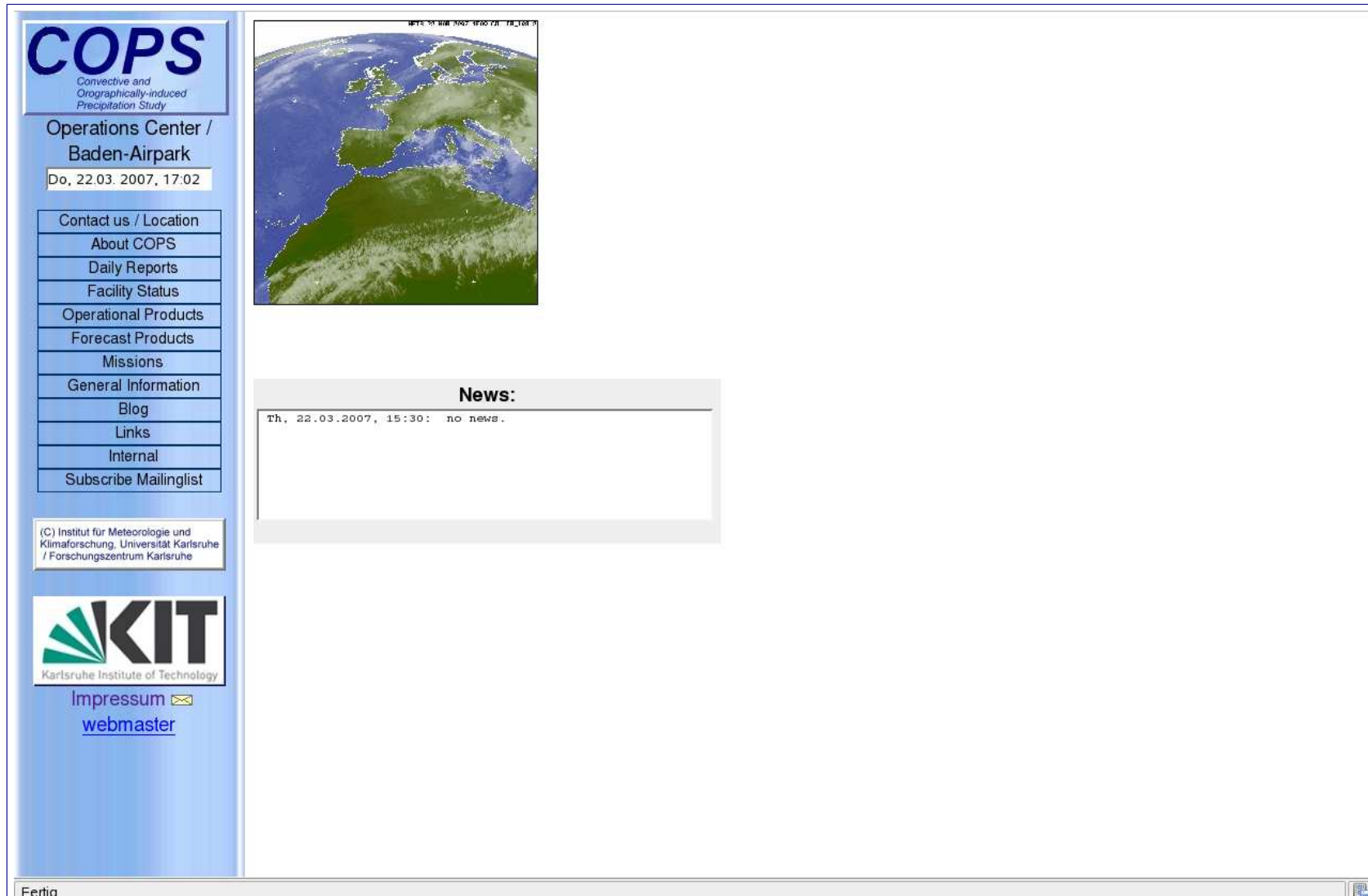
3. Status Quo of NinJo



- system has been installed at IMK
- problems with sorting incoming files into the right directories \implies up to now, not all available data can be received (synop data is still missing)
- Model data, Radar data, Satellite data \checkmark
- Meteosat 8 high-res. images incl. sat. products \checkmark (cloud type, cloud top height, cloud top temperature, total precipitable water, layer prec. water (upper, mid, low), stability analysis imagery)
- move whole system to OC (sat. dish, server, client) or just install client?

4. Ops. Center Homepage <http://www.cops2007.de/>

⇒ skip screenshots



The screenshot shows the homepage of the COPS Operations Center. On the left is a blue sidebar with the COPS logo and a navigation menu. The main content area features a satellite image of Europe, a 'News' section with no recent updates, and footer information including the KIT logo and contact details.

COPS
Convective and
Orographically-induced
Precipitation Study

Operations Center /
Baden-Airpark


Do, 22.03.2007, 17:02

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News:

Th, 22.03.2007, 15:30: no news.

Fertia

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Do, 22.03. 2007, 17:03

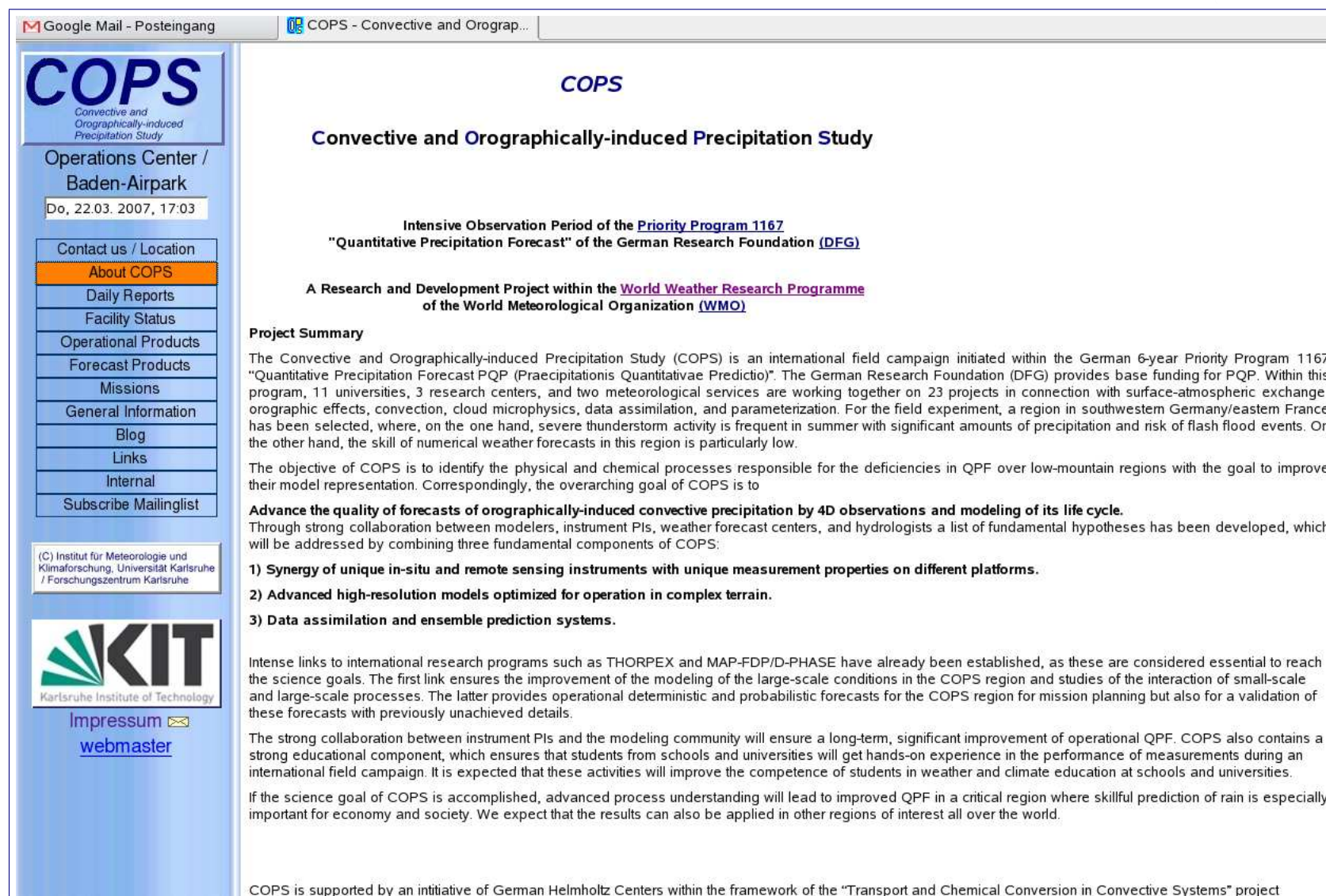
Contact:
Phone Operations Director: 0180...
Mail Operations Center: copsoc(at)gmail.com

Address:
COPS Operations Center
Airport Boulevard B210
D-77836 Rheinmünster

You can find us using Google Maps

Baden-Airpark with Airpark Business Center (location of COPS Operations Center) and conference room Venezia.
The Operations Center is located in the 4th floor of the **Airpark Business Center**.
The Debriefings will be held in the **conference room Venezia** in building B206.

⇒ Contact information, address, pictures of OC building



The screenshot shows a web browser window with a Google Mail tab and a COPS - Convective and Orographically-induced Precipitation Study page. The page features a blue sidebar with navigation links and a main content area with a title, project summary, and objectives.

COPS
Convective and Orographically-induced Precipitation Study

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COPS

Convective and Orographically-induced Precipitation Study

Intensive Observation Period of the [Priority Program 1167](#)
"Quantitative Precipitation Forecast" of the German Research Foundation (DFG)

A Research and Development Project within the [World Weather Research Programme](#) of the World Meteorological Organization (WMO)

Project Summary

The Convective and Orographically-induced Precipitation Study (COPS) is an international field campaign initiated within the German 6-year Priority Program 1167 "Quantitative Precipitation Forecast PQP (Praecipitationis Quantitativae Predictio)". The German Research Foundation (DFG) provides base funding for PQP. Within this program, 11 universities, 3 research centers, and two meteorological services are working together on 23 projects in connection with surface-atmospheric exchange, orographic effects, convection, cloud microphysics, data assimilation, and parameterization. For the field experiment, a region in southwestern Germany/eastern France has been selected, where, on the one hand, severe thunderstorm activity is frequent in summer with significant amounts of precipitation and risk of flash flood events. On the other hand, the skill of numerical weather forecasts in this region is particularly low.

The objective of COPS is to identify the physical and chemical processes responsible for the deficiencies in QPF over low-mountain regions with the goal to improve their model representation. Correspondingly, the overarching goal of COPS is to

Advance the quality of forecasts of orographically-induced convective precipitation by 4D observations and modeling of its life cycle.
Through strong collaboration between modelers, instrument PIs, weather forecast centers, and hydrologists a list of fundamental hypotheses has been developed, which will be addressed by combining three fundamental components of COPS:

- 1) Synergy of unique in-situ and remote sensing instruments with unique measurement properties on different platforms.
- 2) Advanced high-resolution models optimized for operation in complex terrain.
- 3) Data assimilation and ensemble prediction systems.

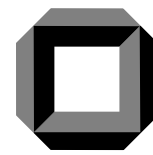
Intense links to international research programs such as THORPEX and MAP-FDP/D-PHASE have already been established, as these are considered essential to reach the science goals. The first link ensures the improvement of the modeling of the large-scale conditions in the COPS region and studies of the interaction of small-scale and large-scale processes. The latter provides operational deterministic and probabilistic forecasts for the COPS region for mission planning but also for a validation of these forecasts with previously unachieved details.

The strong collaboration between instrument PIs and the modeling community will ensure a long-term, significant improvement of operational QPF. COPS also contains a strong educational component, which ensures that students from schools and universities will get hands-on experience in the performance of measurements during an international field campaign. It is expected that these activities will improve the competence of students in weather and climate education at schools and universities.

If the science goal of COPS is accomplished, advanced process understanding will lead to improved QPF in a critical region where skillful prediction of rain is especially important for economy and society. We expect that the results can also be applied in other regions of interest all over the world.

COPS is supported by an initiative of German Helmholtz Centers within the framework of the "Transport and Chemical Conversion in Convective Systems" project

⇒ Information about COPS and TRACKS, Project office, and Links to related projects



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Convective and Orographically-induced Precipitation Study

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Do, 22.03. 2007, 17:04

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Daily Reports

Date(UTC)	facilities status summary	ops plan of the day	science director summary	weather nowcast	weather summary

⇒ Table will grow every day during the field campaign

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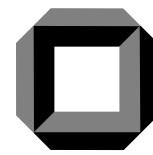
May	June	July	August
01 02 03 04 05 06 07	01 02 03 04 05 06 07	01 02 03 04 05 06 07	01 02 03 04 05 06 07
08 09 10 11 12 13 14	08 09 10 11 12 13 14	08 09 10 11 12 13 14	08 09 10 11 12 13 14
15 16 17 18 19 20 21	15 16 17 18 19 20 21	15 16 17 18 19 20 21	15 16 17 18 19 20 21
22 23 24 25 26 27 28	22 23 24 25 26 27 28	22 23 24 25 26 27 28	22 23 24 25 26 27 28
29 30 31	29 30	29 30 31	29 30 31

May

Legend: no report, down, provisional, up

	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
DROPSONDE_TEAM_1	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report
DROPSONDE_TEAM_2	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report
DROPSONDE_TEAM_3	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report
DROPSONDE_TEAM_4	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report
DROPSONDE_TEAM_5	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report
DO_128_1	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report
DO_128_2	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report
MOBILE_RASO_1	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report
WTR	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report
WINDTRACER	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report
E_BILANZ_1	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report
E_BILANZ_2	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report
MOBILE_RADAR	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report
KARLSRUHE_RADAR	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report
SISOMOP_ST01	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report
SISOMOP_ST02	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report
SISOMOP_ST03	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report
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SISOMOP_ST05	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report
SISOMOP_ST06	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report	no report

⇒ Facility status summary for every month, colours define actual status (up, down, provisional, no report), click on specific day...



Google Mail - Posteingang | COPS - Convective and Orograp...

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May, 11

Legend: ■ no report, ■ down, ■ provisional, ■ up

Dropsonde Facilities:

- DROPSONDE_TEAM_1
- DROPSONDE_TEAM_2
- DROPSONDE_TEAM_3
- DROPSONDE_TEAM_4
- DROPSONDE_TEAM_5

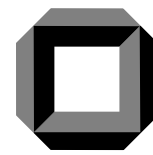
Radar Facilities:

- DO_128_1
- DO_128_2
- MOBILE_RASO_1
- WTR
- WINDTRACER
- E_BILANZ_1
- E_BILANZ_2
- MOBILE_RADAR
- KARLSRUHE_RADAR

sisomop Facilities:

- SISOMOP_ST01
- SISOMOP_ST02
- SISOMOP_ST03
- SISOMOP_ST04
- SISOMOP_ST05
- SISOMOP_ST06
- SISOMOP_ST07
- SISOMOP_ST08
- SISOMOP_ST09
- SISOMOP_ST10

...to get the summary of this day \implies all PI's will get a user-id and a password to deliver the status report of their instruments (actual list is incorrect and still under construction)



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May, 11 [edit](#)

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Dropsoponde Facilities:

- DROPSONDE_TEAM_1
- DROPSONDE_TEAM_2
- DROPSONDE_TEAM_3
- DROPSONDE_TEAM_4
- DROPSONDE_TEAM_5

Radar Facilities:

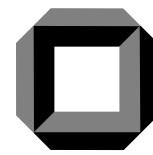
- DO_128_1
- DO_128_2
- MOBILE_RASO_1
- WTR
- WINDTRACER
- E_BILANZ_1
- E_BILANZ_2
- MOBILE_RADAR
- KARLSRUHE_RADAR

sisomop Facilities:

- SISOMOP_ST01
- SISOMOP_ST02
- SISOMOP_ST03
- SISOMOP_ST04
- SISOMOP_ST05
- SISOMOP_ST06
- SISOMOP_ST07
- SISOMOP_ST08
- SISOMOP_ST09

⇒ after login, click on your instrument (marked blue); only right to edit your own instrument

⇒ choose the status from a drop-down menu (up, down, provisional) and enter your comments; Facility status will be updated immediately, re-edit is possible



COPS
Convective and Orographically-induced Precipitation Study

Operations Center /
Baden-Airpark

Do, 22.03. 2007, 17:07

Contact us / Location

- About COPS
- Daily Reports
- Facility Status
- Operational Products
- Forecast Products
- Missions**
- General Information
- Blog
- Links
- Internal
- Subscribe Mailinglist

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[Impressum](#)

[webmaster](#)

Missions

IOP	Begin Date/Time	End Date/Time	Scenario	Daily Reports	Notes
-----	-----------------	---------------	----------	---------------	-------

⇒ Information about all IOP's will be summarized here

COPS

Convective and Orographically-induced Precipitation Study

Operations Center Blog

Erneuter Test wg RSS
by admin @ 2:58 pm. Filed under Uncategorized
Test [\[Comments \(1\)\]](#) [\[link\]](#)

RSS testen
by admin @ 5:28 pm. Filed under Uncategorized
Um immer die neuesten Nachrichten von COPS Blog an einem Firefox-Browser angezeigt zu bekommen:
RSS Feed abonnieren:
Einfach auf RSS 2.0 klicken und als Bookmark ablegen [\[Comments \(0\)\]](#) [\[link\]](#)

COPS Blog zum Testen freigegeben
by admin @ 10:20 am. Filed under Uncategorized
Der COPS Blog ist seit heute, 20.3.07 zum Testen freigegeben. Bei Schwierigkeiten bitte ich um eine Mitteilung an: [webmaster\(at\)imk.uka.de](mailto:webmaster(at)imk.uka.de)



⇒ Forum provides exchange possibilities between COPS scientists:
upload of text and pictures; archive for every day

The screenshot shows a web browser window displaying the COPS website. On the left is a blue sidebar with the COPS logo and a navigation menu. The main content area is white and features a yellow-bordered form for subscribing to the mailing list. The form has a title, an input field, and an 'OK' button. The browser's address bar at the bottom shows the URL: http://www.cops2007.de/html/subscribe_mailinglist.html

COPS
Convective and Orographically-induced Precipitation Study

Operations Center /
Baden-Airpark

Do, 22.03. 2007, 17:08

Contact us / Location

- About COPS
- Daily Reports
- Facility Status
- Operational Products
- Forecast Products
- Missions
- General Information
- Blog
- Links
- Internal
- Subscribe Mailinglist**

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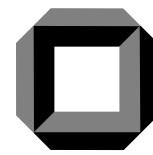
Karlsruhe Institute of Technology

[Impressum](#)

[webmaster](#)

Enter your E-Mail Address to subscribe the COPS-Mailinglist

⇒ daily briefing package and other information will also be distributed via email, please subscribe to this list by entering your email address here



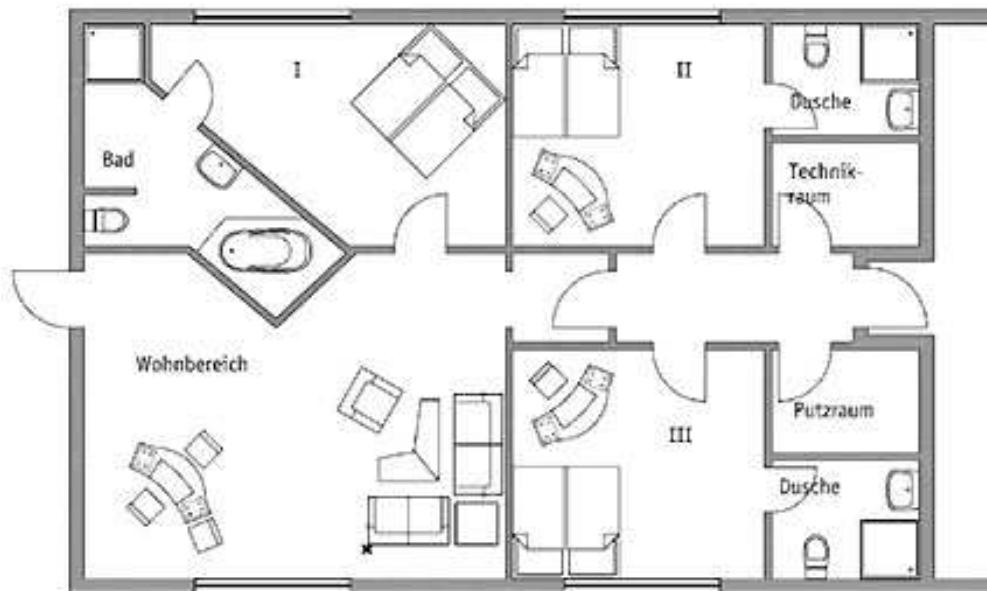
The screenshot shows a web browser window with two tabs: "Google Mail - Posteingang" and "COPS - Convective and Orograp...". The main content area is titled "Mailinglisten Universitaet Karlsruhe" and contains a login form with fields for "email address:" (containing "christian.barthlott@im") and "password:" (with masked characters), and a "Login" button. Below the login form is a "First login ?" and "Lost password ?" section. To the right of the login form is a "Subscribe" button and a "password" field. A message states: "You requested a subscription to list cops. To confirm your identity and prevent anyone from subscribing you to this list against your will, a message containing your password will be sent to you. Check your mailbox for new messages and enter below the password. This will confirm your subscription to list cops." Below this message is a "Subscribe" button and a "password" field. A blue arrow points to the "password" field with the text "enter pw here". The left sidebar contains the "COPS" logo, "Operations Center / Baden-Airpark", a date "Do, 22.03. 2007, 17:10", and a "Contact us / Location" menu with items like "About COPS", "Daily Reports", "Facility Status", "Operational Products", "Forecast Products", "Missions", "General Information", "Blog", "Links", "Internal", and "Subscribe Mailinglist". At the bottom of the sidebar is the "KIT" logo and "Impressum" and "webmaster" links. The footer of the page says "Powered by Sympa 5.2.4".

⇒ a password will be sent to you immediately; please confirm your subscription by entering the password (Preferences: change pw, change or add email address)

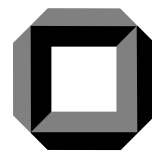
5. Accommodation possibilities at Baden-Airpark

- 3 double rooms in the building of the conference room B206
- modern and comfortable furniture with double bedrooms, TV, and shower or bath tub
- please contact Sybille Klug for booking or further information: +49 (0)7229 662 111
Sybille.Klug@baden-airpark.de

- approx. 10 single rooms in building B112
- TV/Sat, showers on each floor and partly a common kitchen (for long-term residence)
- Inquiries/bookings can be carried out by calling +491727245059 (Mr Breuer) **book early!**
- Prices including VAT: 1 day 35; 1 week 120; 14 days 200; 1 month 350 Euro



A selection of hotels in the surrounding of Baden-Airpark: [Search with Google Maps](#)



6. Open points

- **Operational Products**

- what measurement systems are capable of regularly transmitting quicklooks to the OC? e.g. radiosonde data and quicklooks would be very helpful for mission planning \implies please contact me during the workshop

- **D-PHASE Products**

- reduce the number of plots to 10000 - 15000 per day (storage capacity!)
- IMK will provide an ftp-server, where all participating model groups can upload their quicklooks \implies we need to know at what time of day the files will be sent for preparation of the visualisation area

- **Operations Coordination**

- further adjustment of OC staff and decision process? \implies WG tomorrow

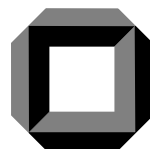


Photo: B. Mühr (2000) www.wolkenatlas.de

Thank you

**...please don't forget to visit <http://www.cops2007.de> for
registering to the COPS mailing list!**