

# WHERE ARE WE?



## All beamlines running 2.1

Seven end stations

First attempt to run 2.2 on one end station.

## Hardware Objects

BLISS – the new Control system/library - <http://gitlab.esrf.fr/bliss/bliss>

Continue improving the plate gripper and the FlexHCD implementation.  
(MicrodiffFocusMotor - centring or alignment)

## Workflows

The HDF5 format for Eiger detector

## Non MX beamline to use MxCUBE

Adaptation to a high-throughput diffuse scattering- ID28.

# ESRF HIGHLIGHTS: BLISS

bliss shell

bacon:8099/1

bliss shell

Diagram illustrating the BLISS beamline components and their parameters:

- wbv.diode In Out
- monocal.diode monocal 0.000
- mbv1.diode In Out
- mbv2.diode In Out
- mbv3.diode mtz 1.830 myf 1.950 myb -1.950
- pyroC1mm In Out
- pyroC2mm In Out
- wbv.led In Out mono 8.956 energy 12.700
- wbv.foil In Out
- ss1hg 2.000 crf\_y 0.000
- ss1ho -0.300 crf\_rz 0.000
- ss1vg 1.200 crf\_by 0.100
- ss1vo 0.025 crf\_tz 0.025
- mbv1.led In Out
- mbv1.foil In Out
- mbv2.led In Out ss2hg 2.700
- ss2ho 0.025
- ss2vg 2.000
- ss2vo 0.025
- mbv2.led In Out mbenf -375.000 mbenb -90.000
- mbv2.foil In Out
- mbv3.foil In Out
- AI100um In Out
- AI200um In Out
- AI350um In Out
- AI500um In Out
- AI1000um In Out
- AI1500um In Out

```
> detcover.
controller ctrl inout is_in is_out key_cmd key_in key_out set_in set_out state
```

Setup Shell output Log messages

```
> timescan(0.5, i0, npoints=20)
```

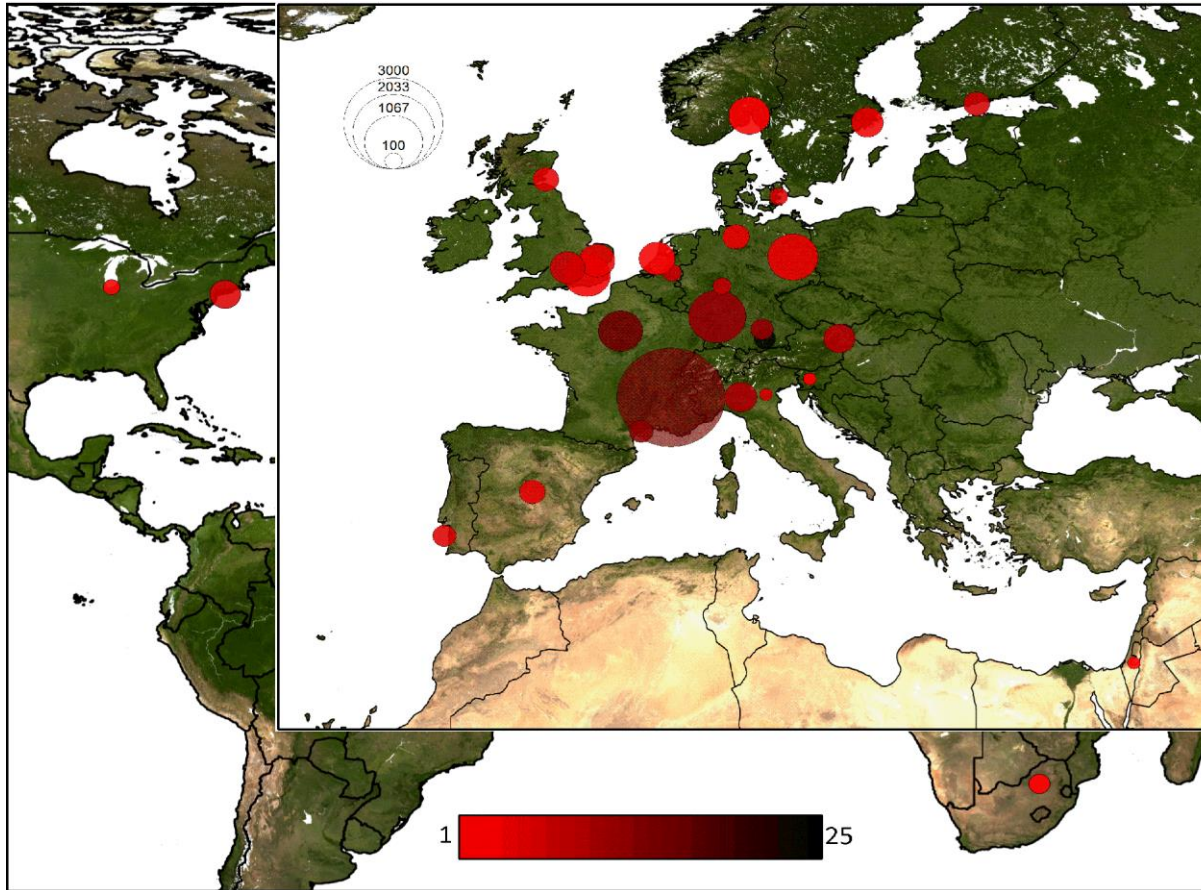
/users/opid30/scans/scans\_240616

7.289873838424683: i0: 6.75e-7

# ESRF HIGHLIGHTS: HIGH-THROUGHPUT DIFFUSE SCATTERING

The screenshot displays the ESRF data collection software interface. The main window is titled "Sample" and "Scan display". The "Sample position" section shows the following parameters: Omega: 1.00, Phi: 180.00, Gamma: -25.00, Chi: 0.00, Sample X: 0.49, Sample Y: 2.88, and Sample Z: 0.49. The "Sample video" section shows Iris: 100.0, Coarse Focus: -202.00, Fine Focus: 0.100, Zoom: 9.95, and Light: 30.0. The "Collection method" section is set to "Standard Collection" with parameters: Oscillation range: 0.1, First image: 1.0, Oscillation start: 1.0, Number of images: 1, Kappa: 0, Phi: 0, Deflector mode: 0, Exposure time (s): 0.02, Energy (keV): 0, Resolution (Å): 0, Transmission (%): 0, Inverse beam: unchecked, Subwedge size: 0, and Shutterless: unchecked. The "Data location" section shows Folder: /data/visitor/local-user/id28/20160624/, File name: local-user\_2\_###.cbf, Prefix: local-user, and Run number: 2. The "Machine current" section shows 173.7 mA, 7.8 multibunch, and 03:50. The "Flux" section shows - ph/s. The "Energy" section shows Energy: 0, Wavelength: 0, and Resolution: 0. The "Current" section shows 130.00 mm. The "Move to" section shows 0 Å. The "Safety shutter" section shows disabled. The "Add to queue" button is visible. The "Collect Queue" and "Pause" buttons are at the bottom left. The status bar at the bottom shows: [2016-06-24 17:07:12] Jun 24 09:04 Delivery:Next Refill at 21:00; [2016-06-24 17:07:12] Jun 24 09:04 Delivery:Next Refill at 21:00; [2016-06-24 17:07:12] Ready.

# ESRF HIGHLIGHTS: FULLY AUTOMATIC (BLISS AND WORKFLOWS)



19,142 samples processed since opening  
with no human intervention