

ChimPANzee

- A new allsky and panorama  
rendering software

Alexander Colsmann

Planetarium im Vonderau-Museum,  
Fulda, Germany



July 6<sup>th</sup>, 2004

IPS Conference, Valencia

ChimPANzee 

 Hans-Nüchter-  
Sternwarte

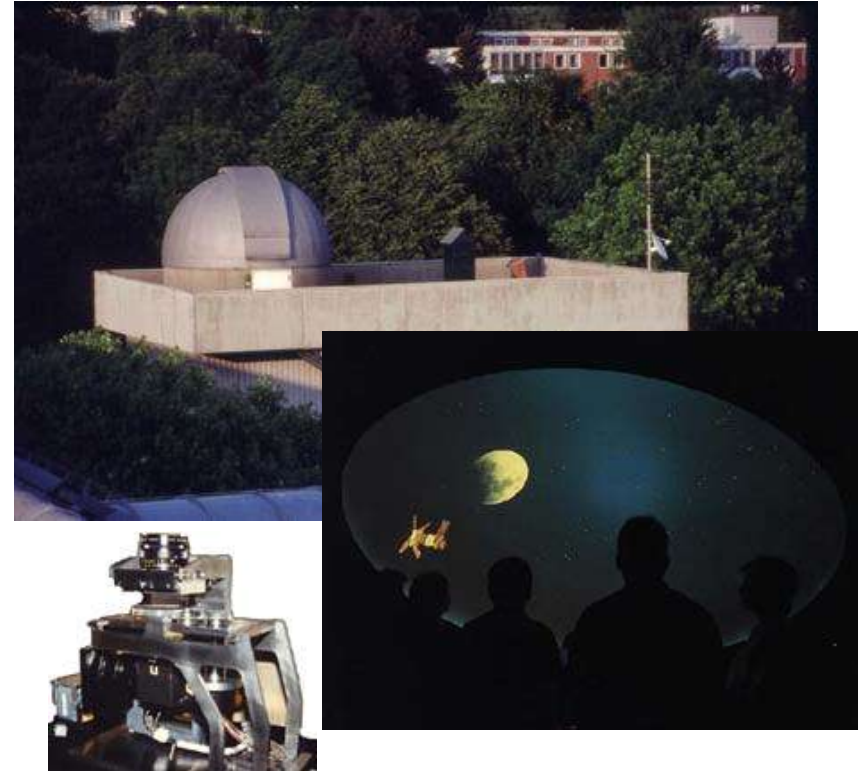
 Vonderau-Museum  
Fulda

Planetarium im Vonderau-Museum, Fulda



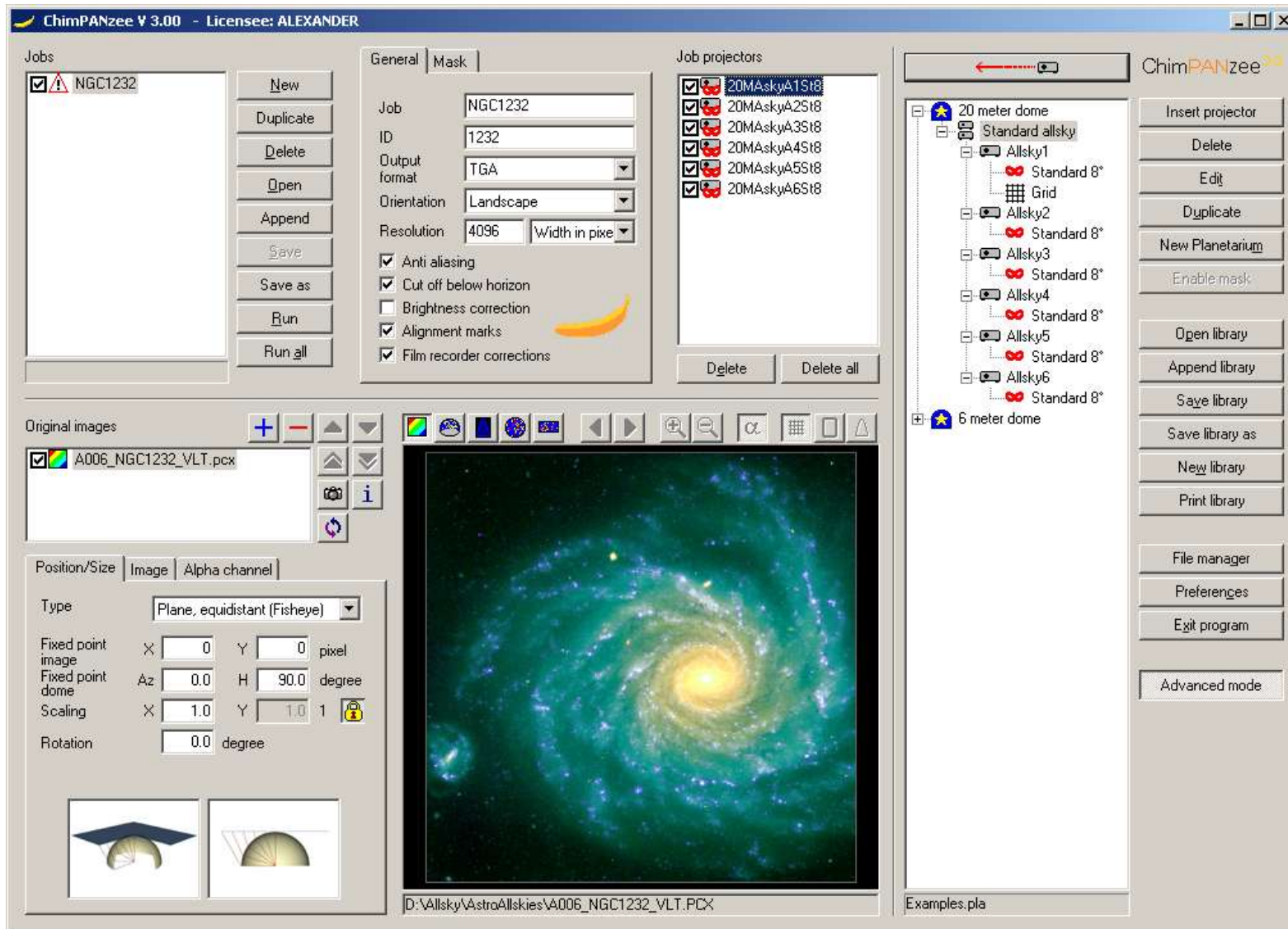
- 6 meter dome
- ZKP II
- 36 concentric seats
- Dataton automation
- Panorama, animation, zenith
- x/y slew
- Open to the public

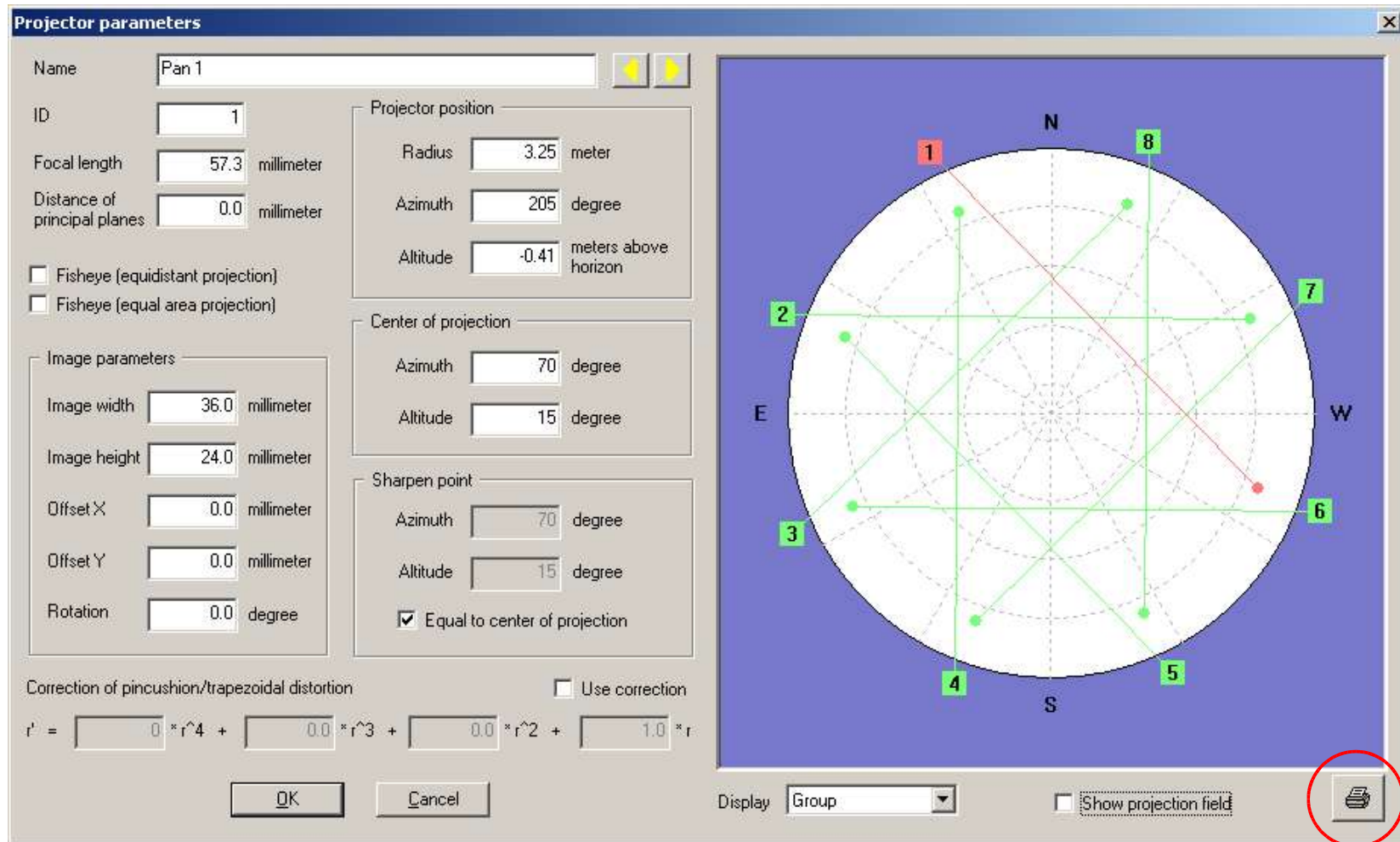
Hans-Nüchter-Sternwarte, Fulda



- 4 meter dome
- Home made, uses fisheye lens
- Variable number of seats
- Manual control
- 2 slide projectors
- Educational purpose only

All important information at a glance

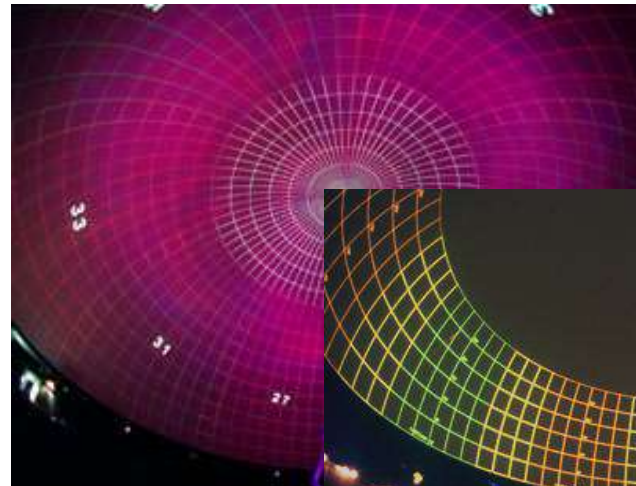
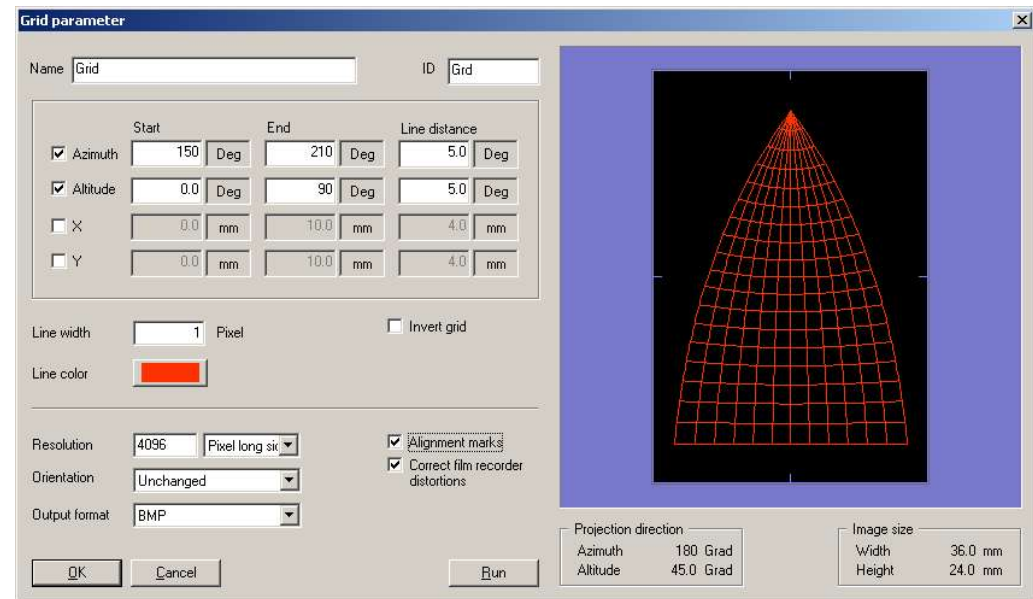




Print layout, e.g. for graphical arts

The easy way to proper alignment grids

- Create your own 100% fitting grids



Defining softedges has never been easier

Mask parameters

Name: Standard 8" ID: St8

	Start	End	Width
<input checked="" type="checkbox"/> Azimuth	150 Deg	210 Deg	8 Deg
<input type="checkbox"/> Altitude	0.0 Deg	10.0 Deg	1.0 Deg
<input type="checkbox"/> X	0.0 mm	10.0 mm	1.0 mm
<input type="checkbox"/> Y	0.0 mm	10.0 mm	1.0 mm

Softedge profile

Gamma value: 1.8

User defined softedge

Softedge: [dropdown]

New Delete Print

Overwrite Rename

Interpolation method: Linear

Projection direction

Azimuth: 180 Grad

Altitude: 45.0 Grad

Invert mask

Smooth mask

Allsky zenith correction

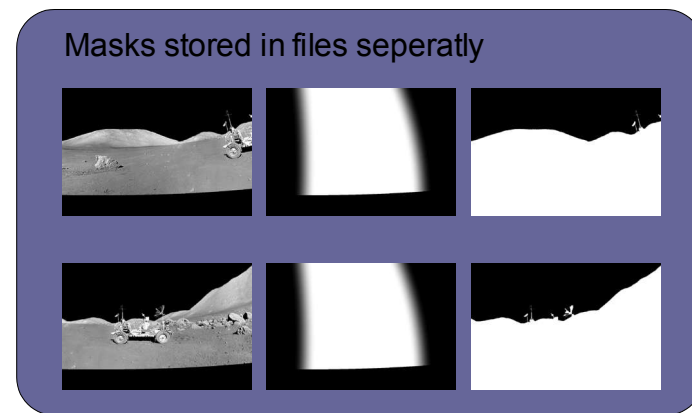
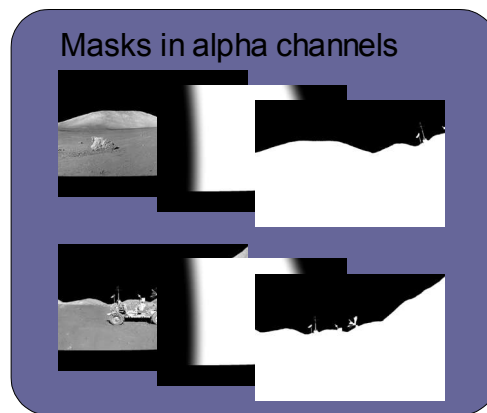
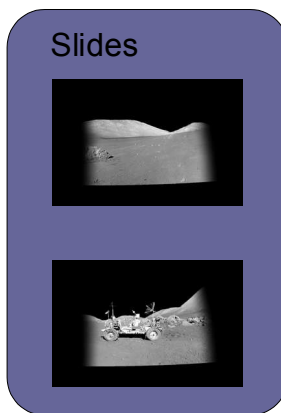
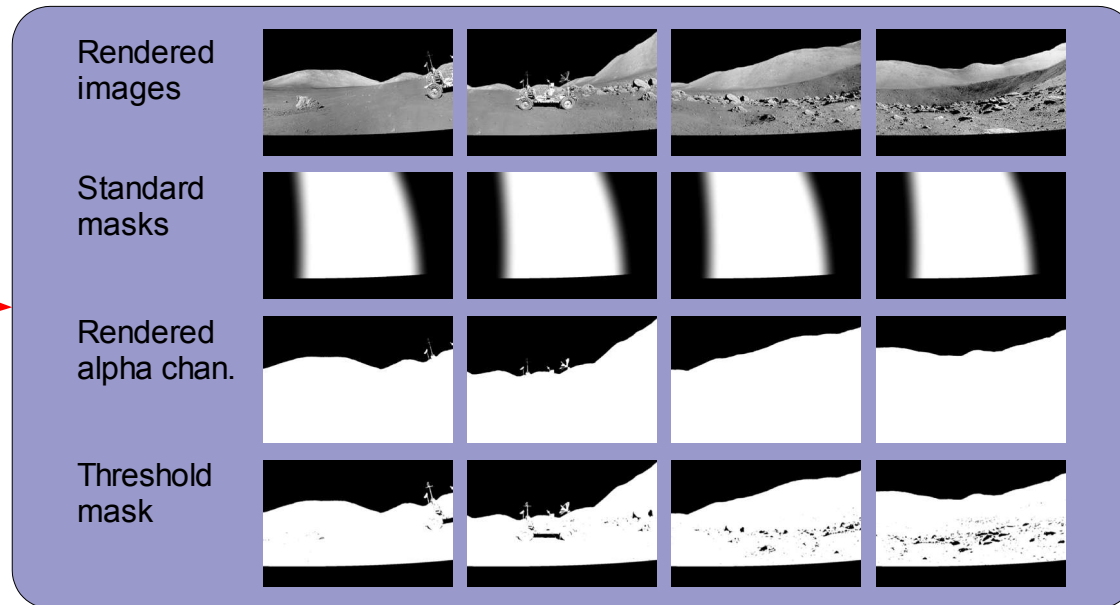
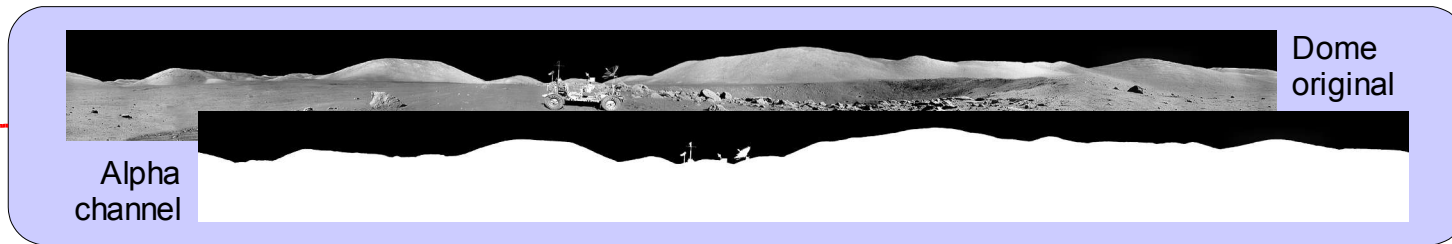
Special zenith corrections

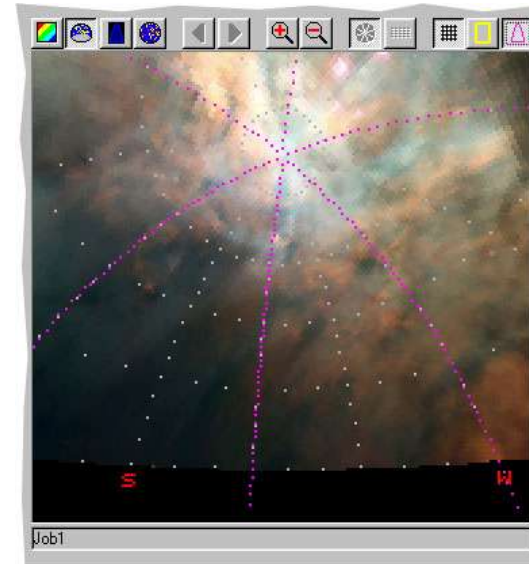
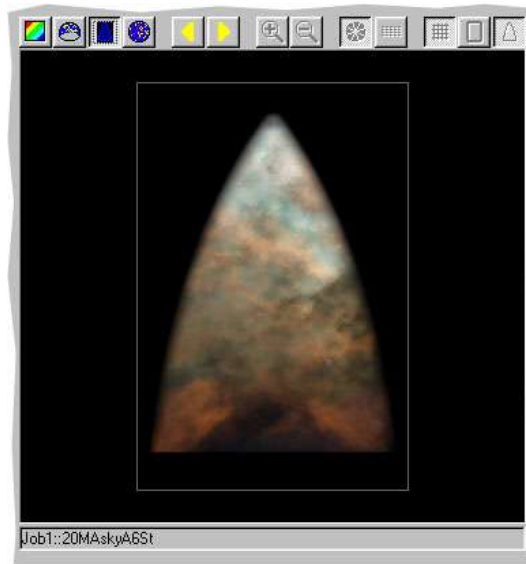
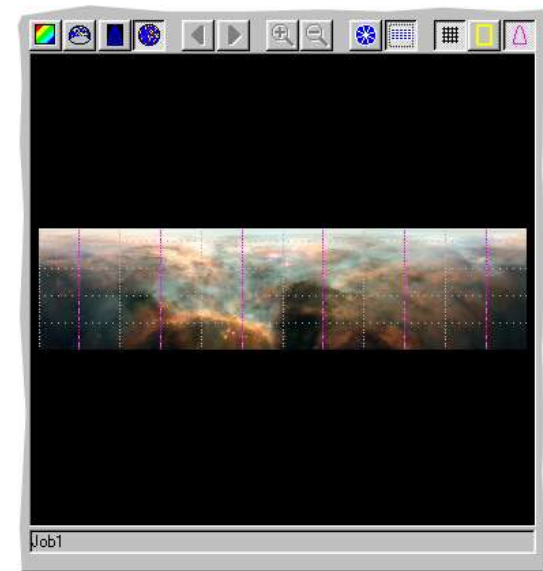
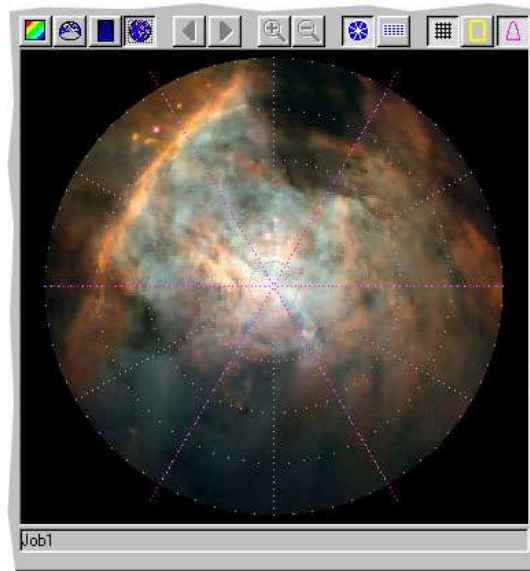
Smoothing prevents optical illusions

User defined softedge characteristics

- Gamma definition
- 11 points

Keyhole masks



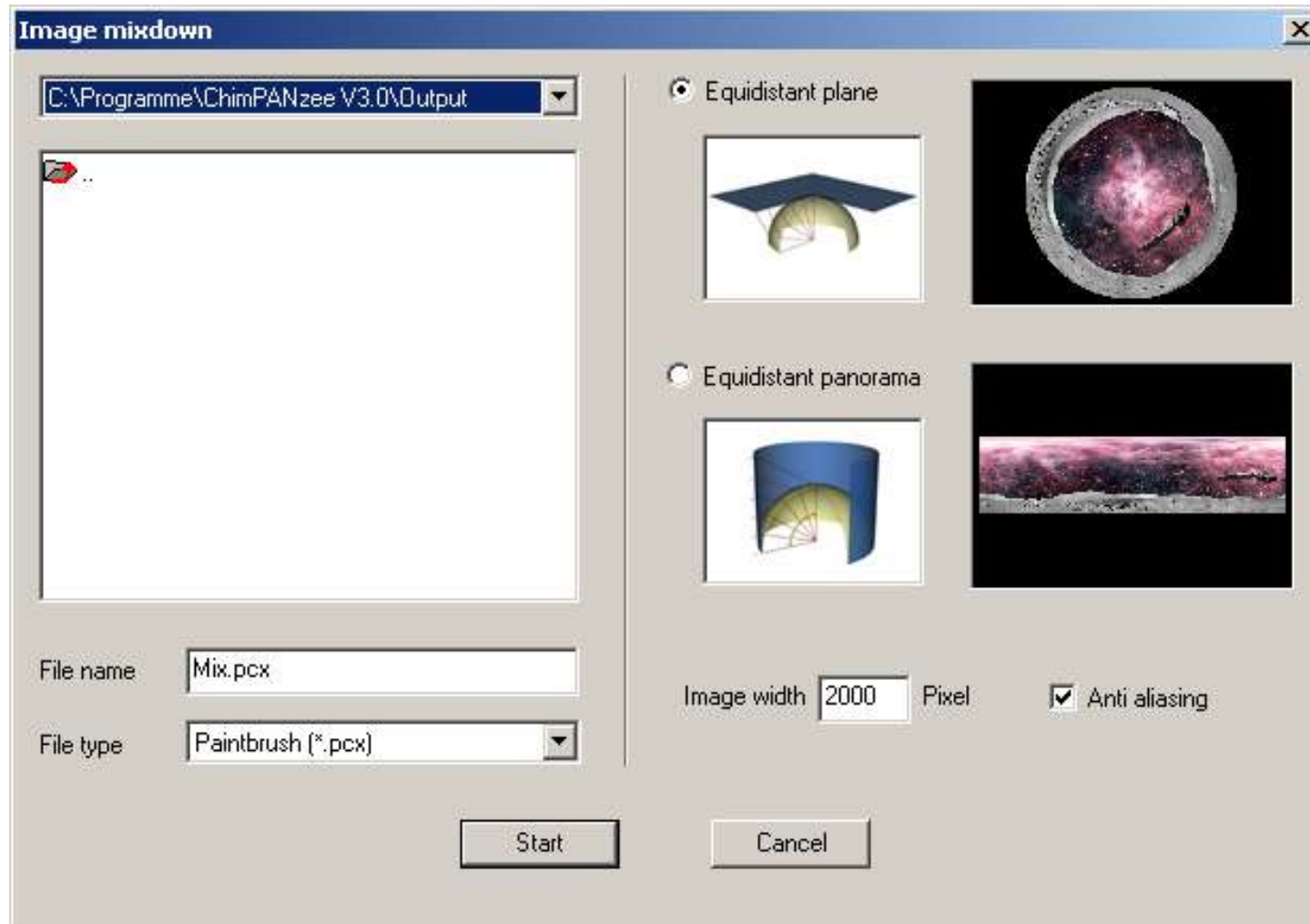


## Composing dome originals from different images

- Photoshop-like planes
- Alpha channels define free standing objects
- Move, scale or rotate images
- Correct brightness, contrast
- Define transparency
- Adjust color levels
- 5 kinds of image originals
- Different image merging methods
- and more ...

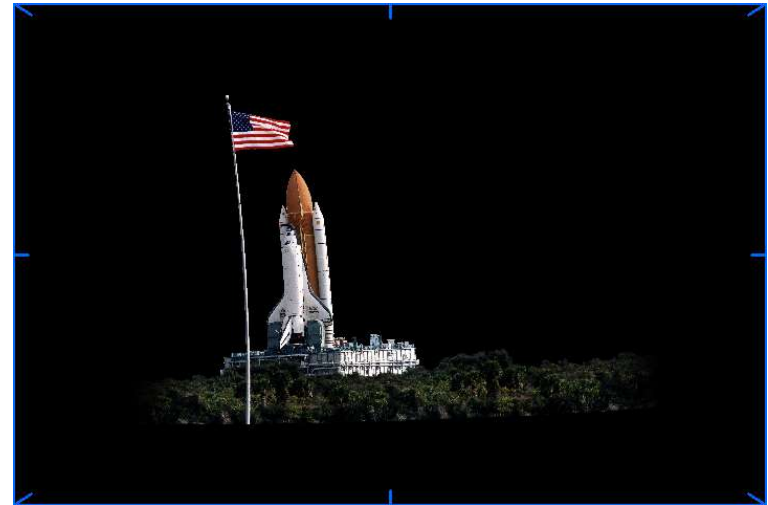


To share images with colleagues just save them!



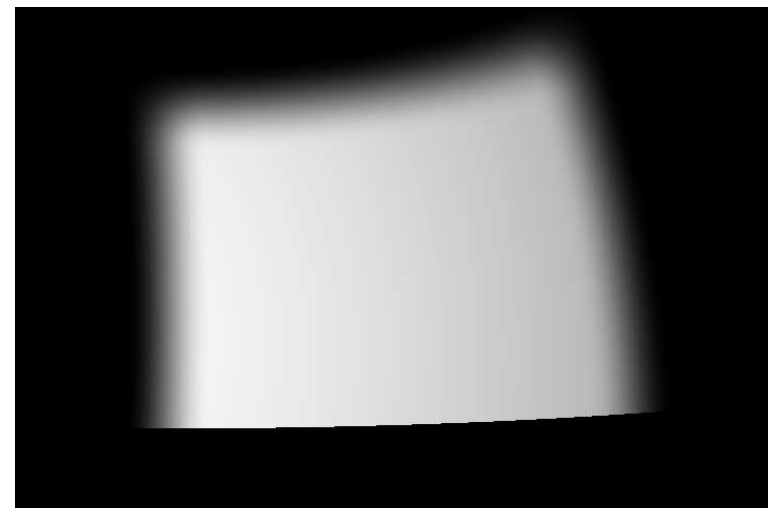
## Alignment marks

- Used for VR registered mounting



## Brightness correction

- Corrects different projection distances (=brightness) within one slide



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- System alignment on site
- ChimPANzee training
- Some in-stock fotogr. allskies and panoramas
- Customzied fotogr. allskies and panoramas
- Film recording
- Show production
- ...

