Success of Registax !

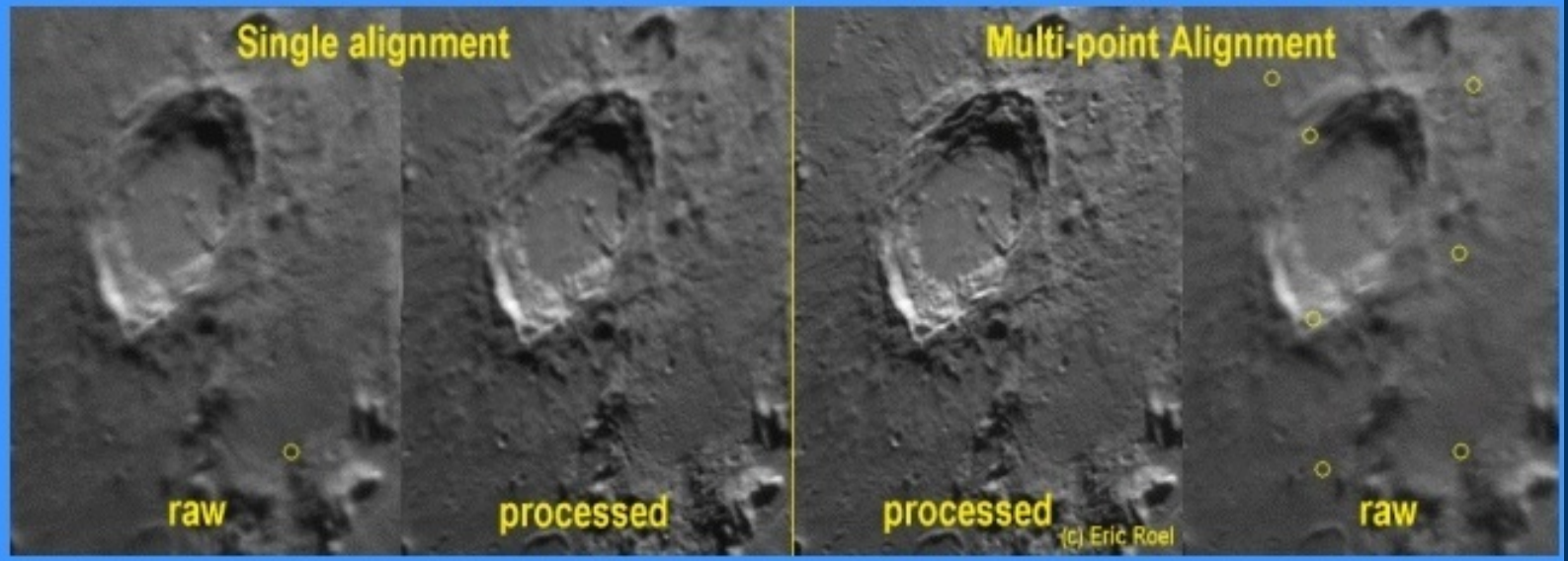
Cor Berrevoets

http://www.astronomie.be/registax/

Registax V5 !

RegiStax V 5 beta

Free software for alignment/stacking/processing of images



http://www.astronomie.be/registax/tempo/

RegiStax Free image processing software

Homepage
Download
Examples
About RegiStax
Contact

Register, Stack, Sharpen

Downloads V4
0051610

Latest News

15 oct 2008 RegiStax V5 progress report

1 jan 2008 Registax V5 Development has started
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20 nov 2006 RegiStax V4 Hot Product 2007 S&T
Read More »

29 oct 2006 RegiStax V4 is released Read More »

Welcome To RegiStax

A sneak preview of RegiStax V5

15 oct 2008 For the past 6-9 months a team of volunteers has been working hard to get RegiStax V5 working.

.

RegiStax V5 Development has started

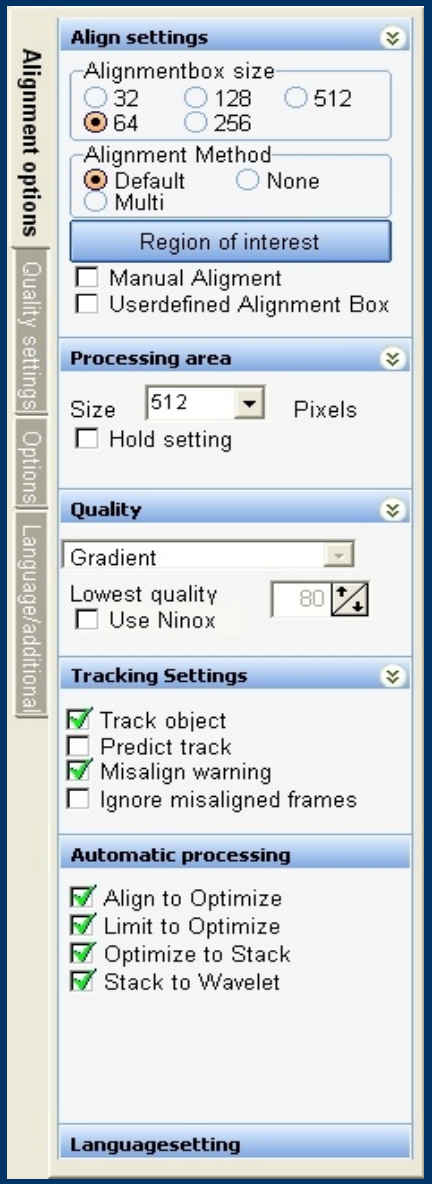
1 jan 2008

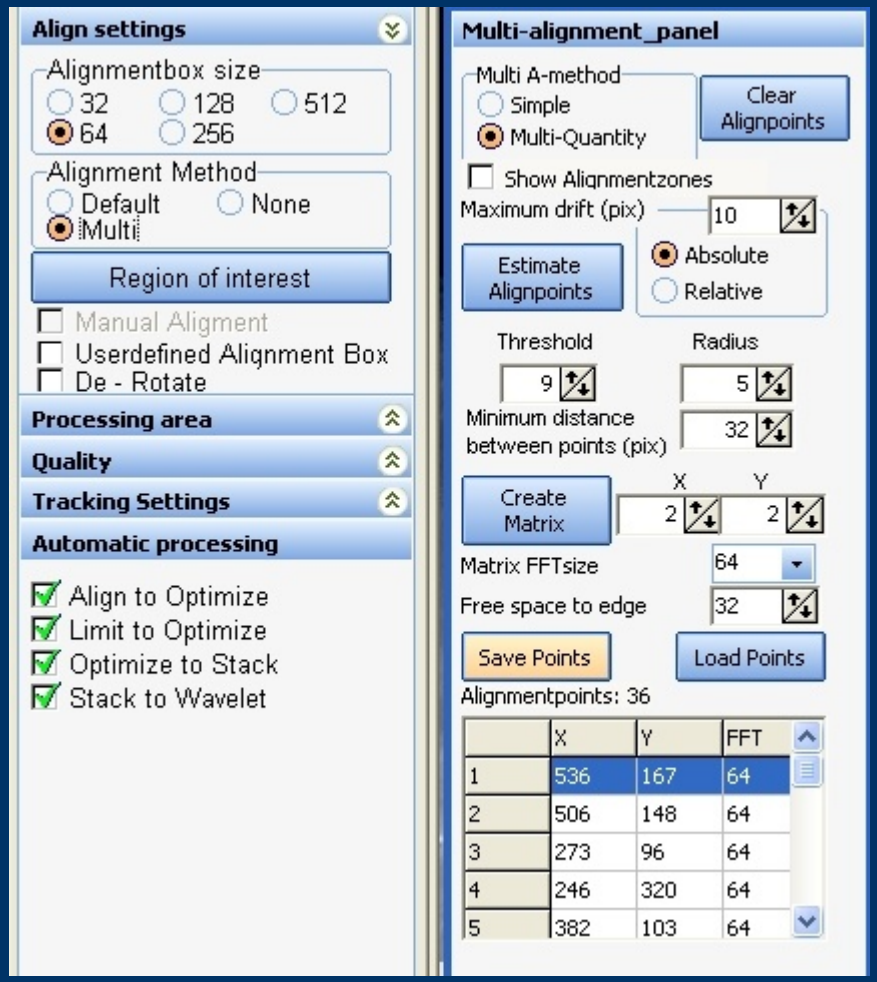
After a long sleep the RegiStax Development team has woken up.

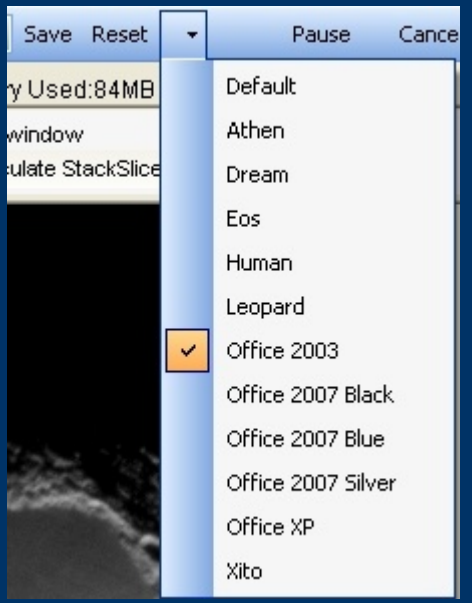
With over 45 000 downloads of RegiStax V4 on the counter and no need for intermediate releases the team is currently waking up from its long and well deserved sleep.Current development is in the stage of exploring new ideas. Users that have ideas for the next version of RegiStax are kindly requested to send these using the error-report module of RegiStax V4.To do this, startup RegiStax, go to the about page and click on the "SUBMIT ERROR" link. Change the Subject of the mail to **IDEA for REGISTAX V5** please.

with kind regards,

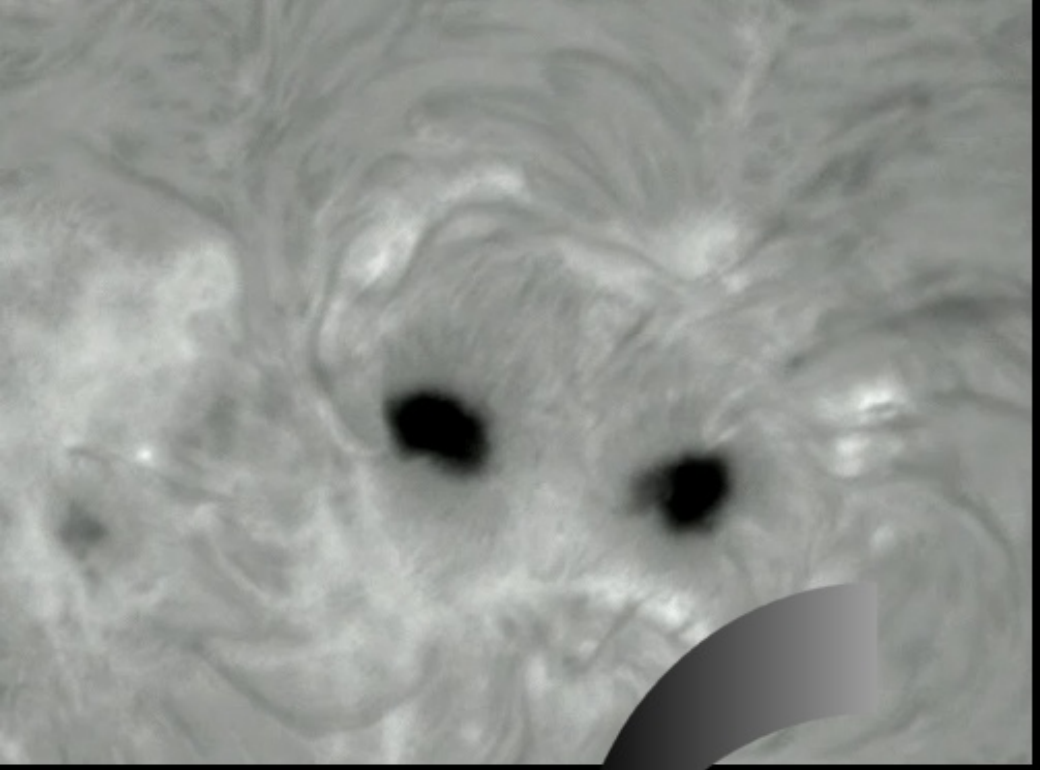
New interface ...



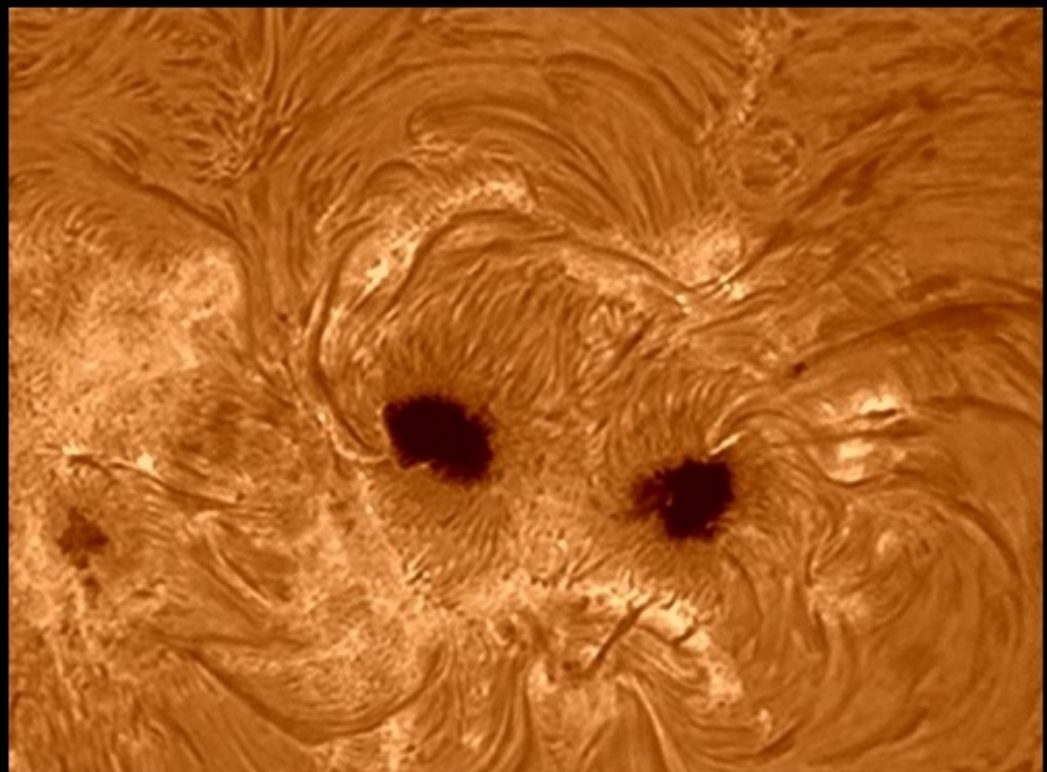




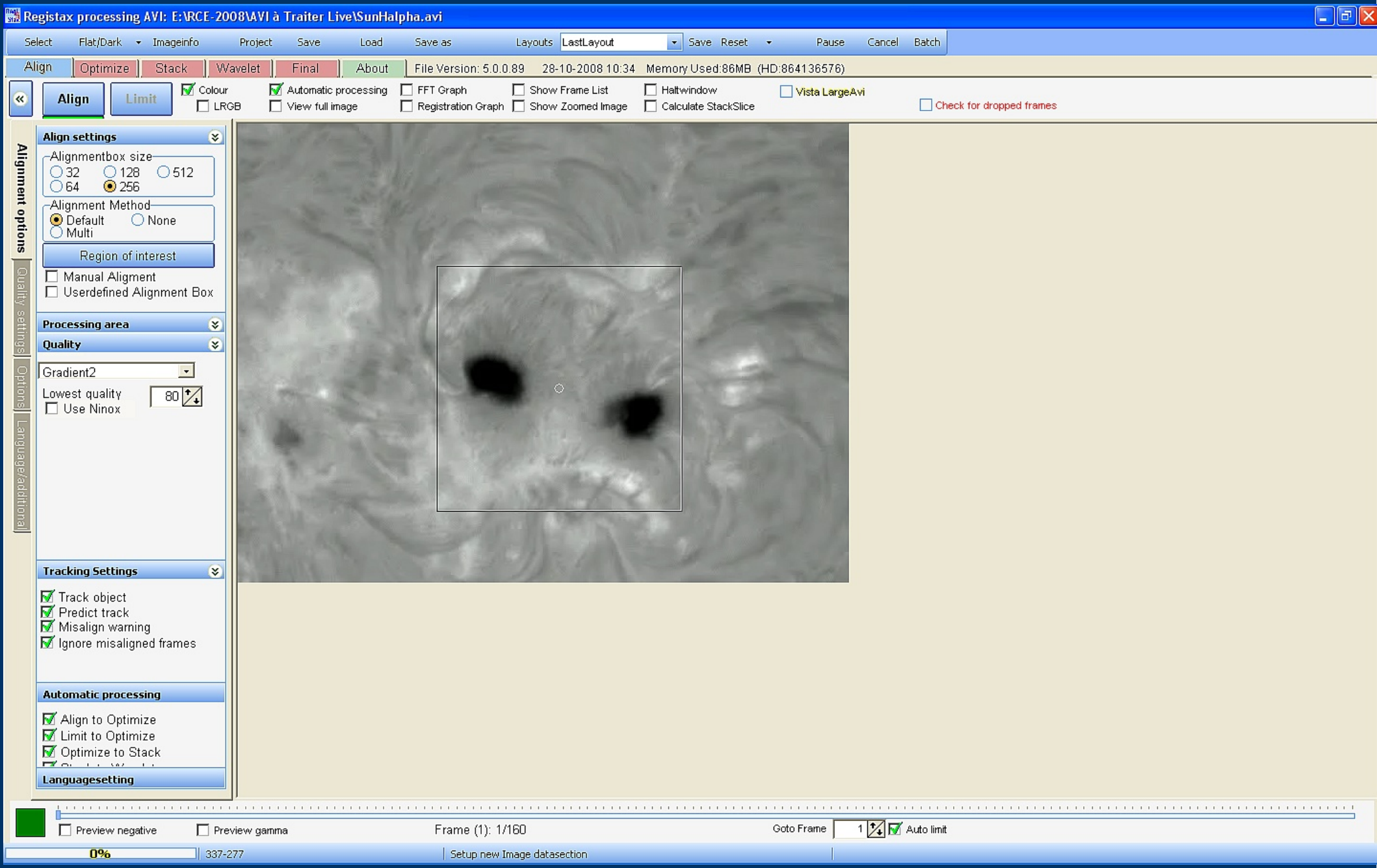
Exemple 1 Sun in H-Alpha



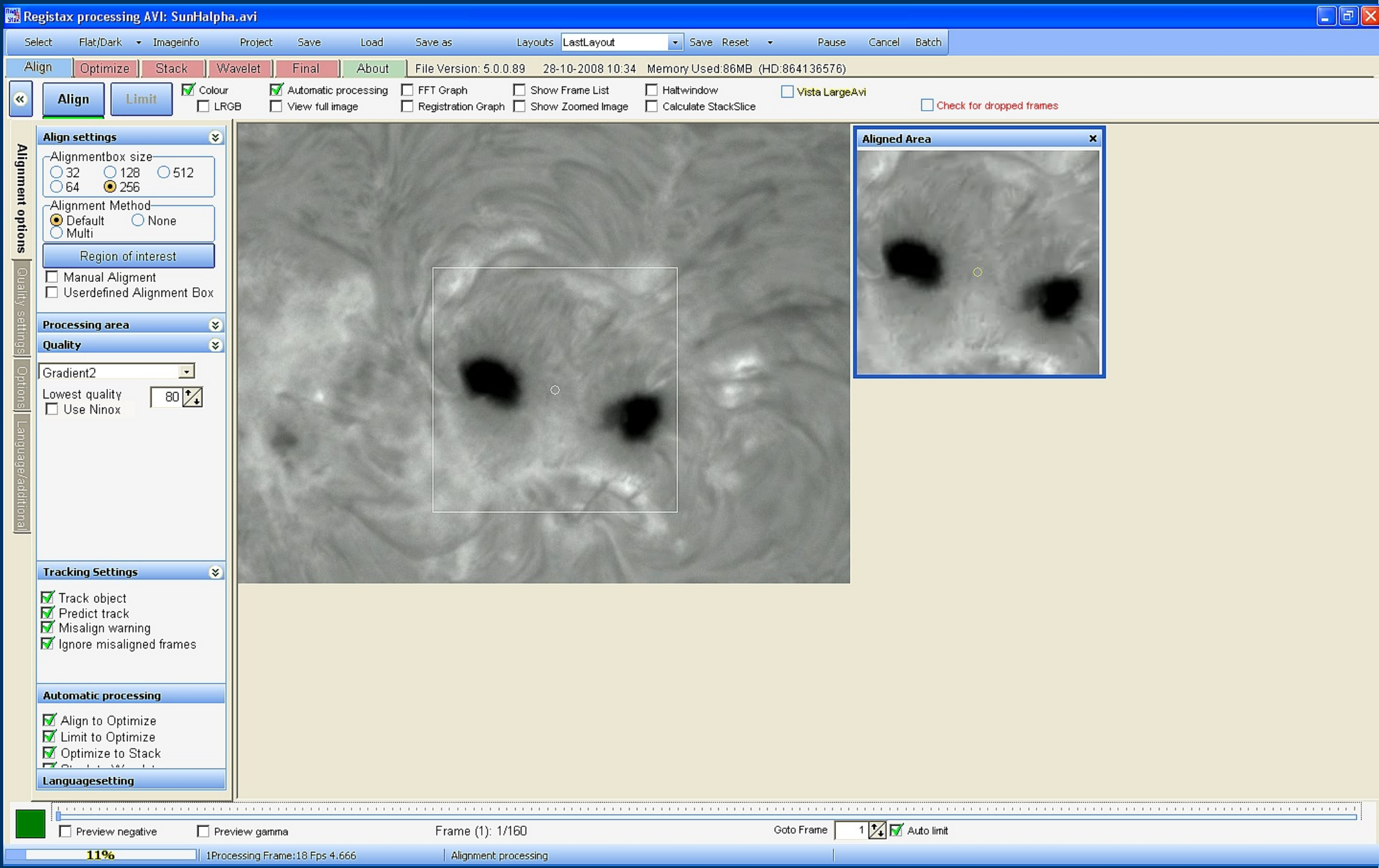
Soleil - H alpha



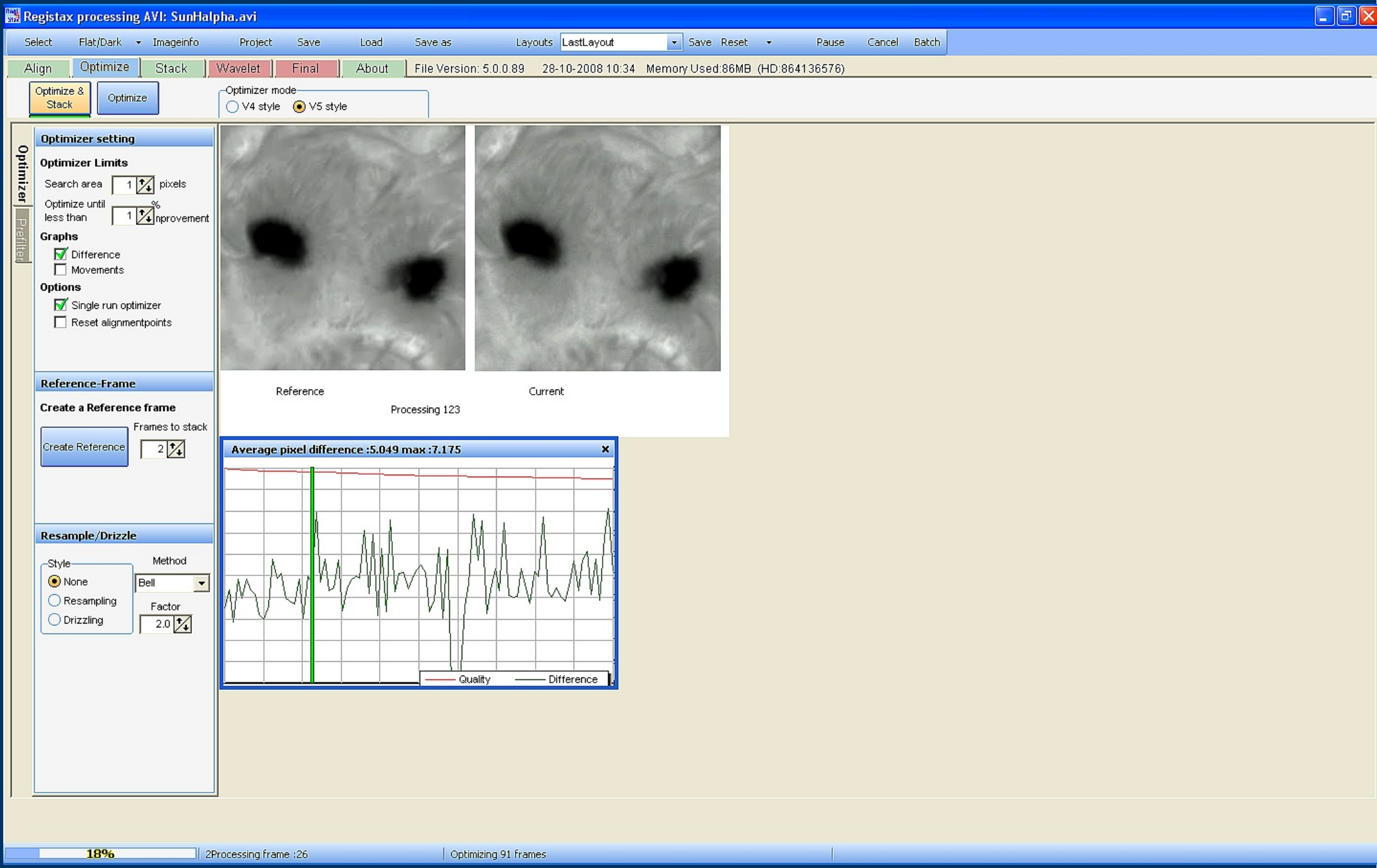
AVI loading and positioning 1 alignement point



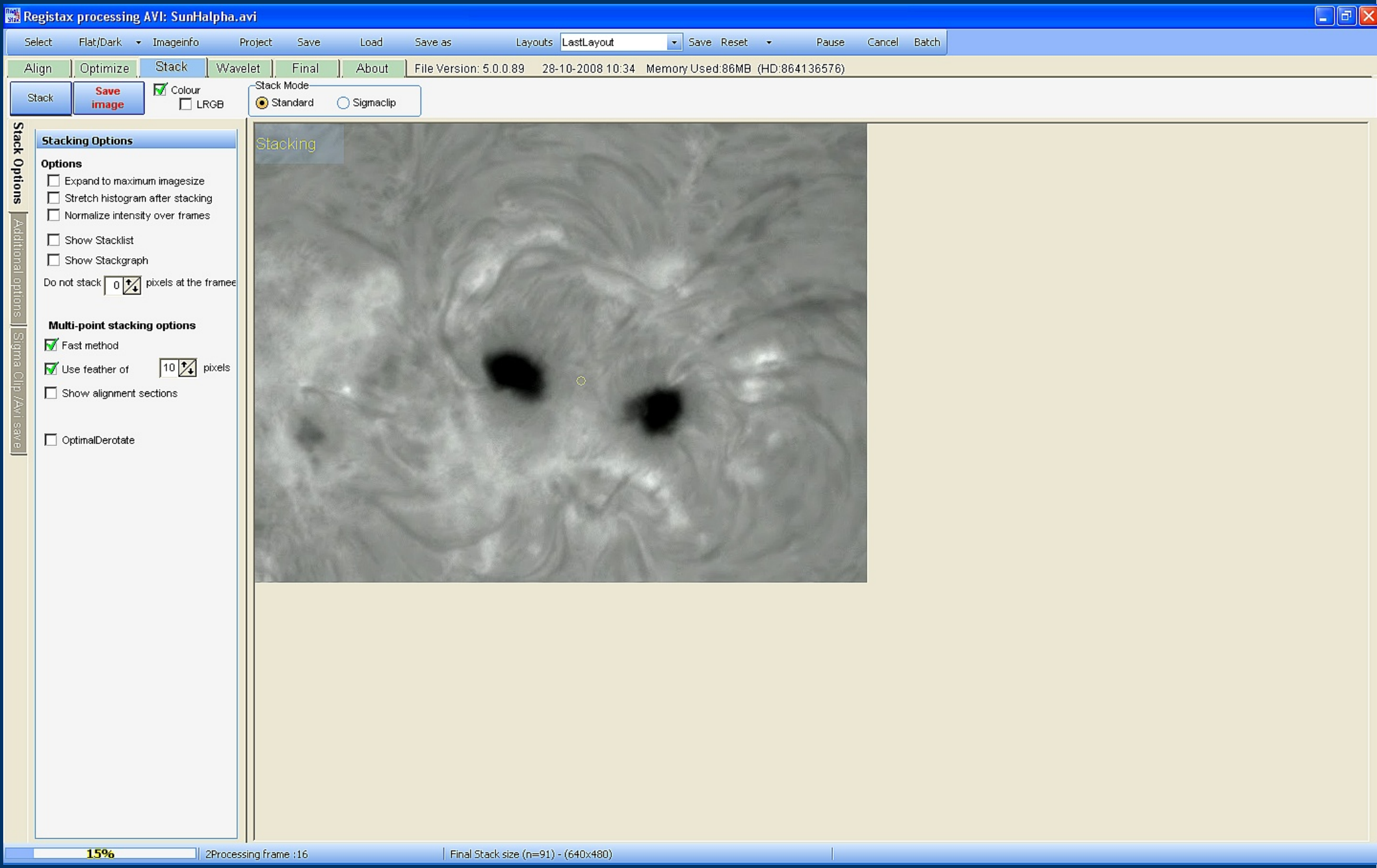
Aligning...


Registax processing AVI: SunHalpha.avi
Select
Flat/Dark
Imageinfo
Project
Save
Load
Save as
Layouts
LastLayout
Save
Reset
Pause
Cancel
Batch
Align
Optimize
Stack
Wavelet
Final
About
File Version: 5.0.0.89
28-10-2008 10:34
Memory Used:86MB (HD:864136576)
Align
Limit
Colour
LRGB
Automatic processing
View full image
FFT Graph
Registration Graph
Show Frame List
Show Zoomed Image
Haltwindow
Calculate StackSlice
Vista LargeAvi
Check for dropped frames
Alignment options
Quality settings
Options
Language/additional
Align settings
Alignmentbox size
32
64
128
256
512
Alignment Method
Default
Multi
None
Region of interest
Manual Aligment
Userdefined Alignment Box
Processing area
Quality
Gradient2
Lowest quality
80
Use Ninox
Tracking Settings
Track object
Predict track
Misalign warning
Ignore misaligned frames
Automatic processing
Align to Optimize
Limit to Optimize
Optimize to Stack
Languagesetting
Aligned Area
Preview negative
Preview gamma
Frame (1): 1/160
Goto Frame
1
Auto limit
11%
1Processing Frame:18 Fps 4.666
Alignment processing

Optimisation ...



Stack...


Registax processing AVI: SunHalpha.avi
Select
Flat/Dark
Imageinfo
Project
Save
Load
Save as
Layouts
LastLayout
Save
Reset
Pause
Cancel
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Stack
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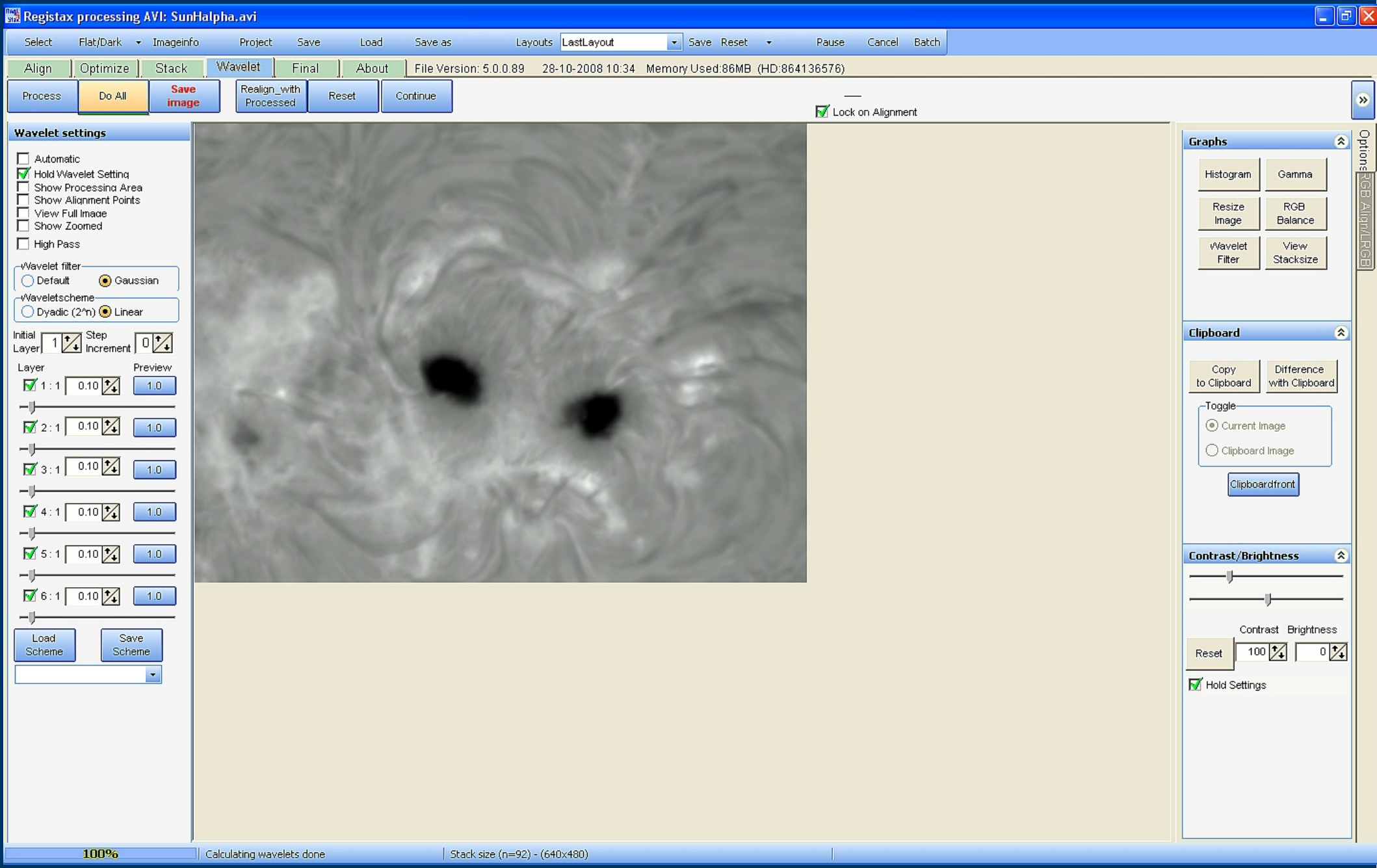
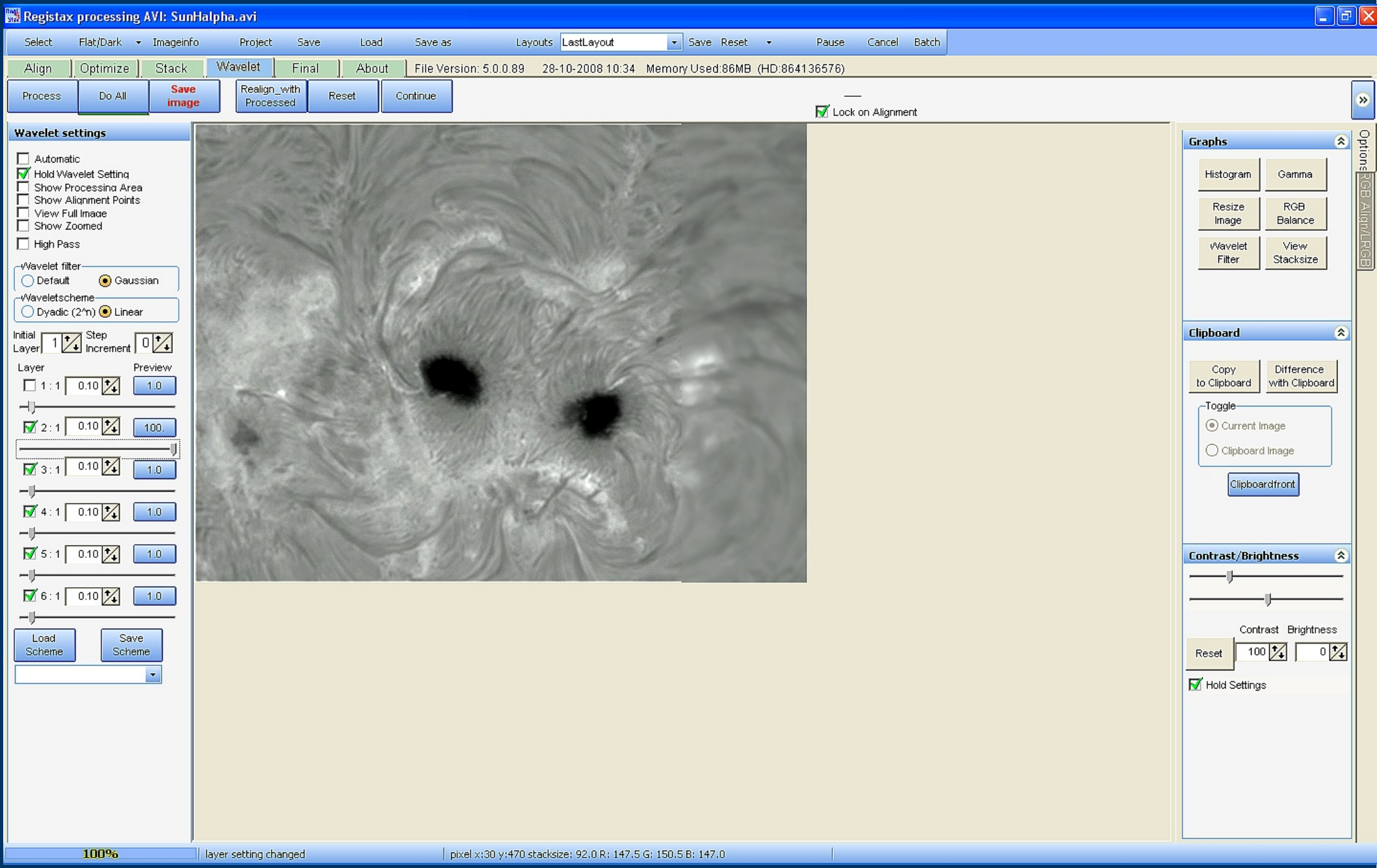
Memory Used:86MB (HD:864136576)
Stack
Save image
Colour
LRGB
Stack Mode
Standard
Sigmaclip
Stack Options
Additional options
Sigma Clip / Avi save
Stacking Options
Options
Expand to maximum imagesize
Stretch histogram after stacking
Normalize intensity over frames
Show Stacklist
Show Stackgraph
Do not stack
pixels at the framee
Multi-point stacking options
Fast method
Use feather of
pixels
Show alignment sections
OptimalDerotate
Stacking
15%
2Processing frame :16
Final Stack size (n=91) - (640x480)

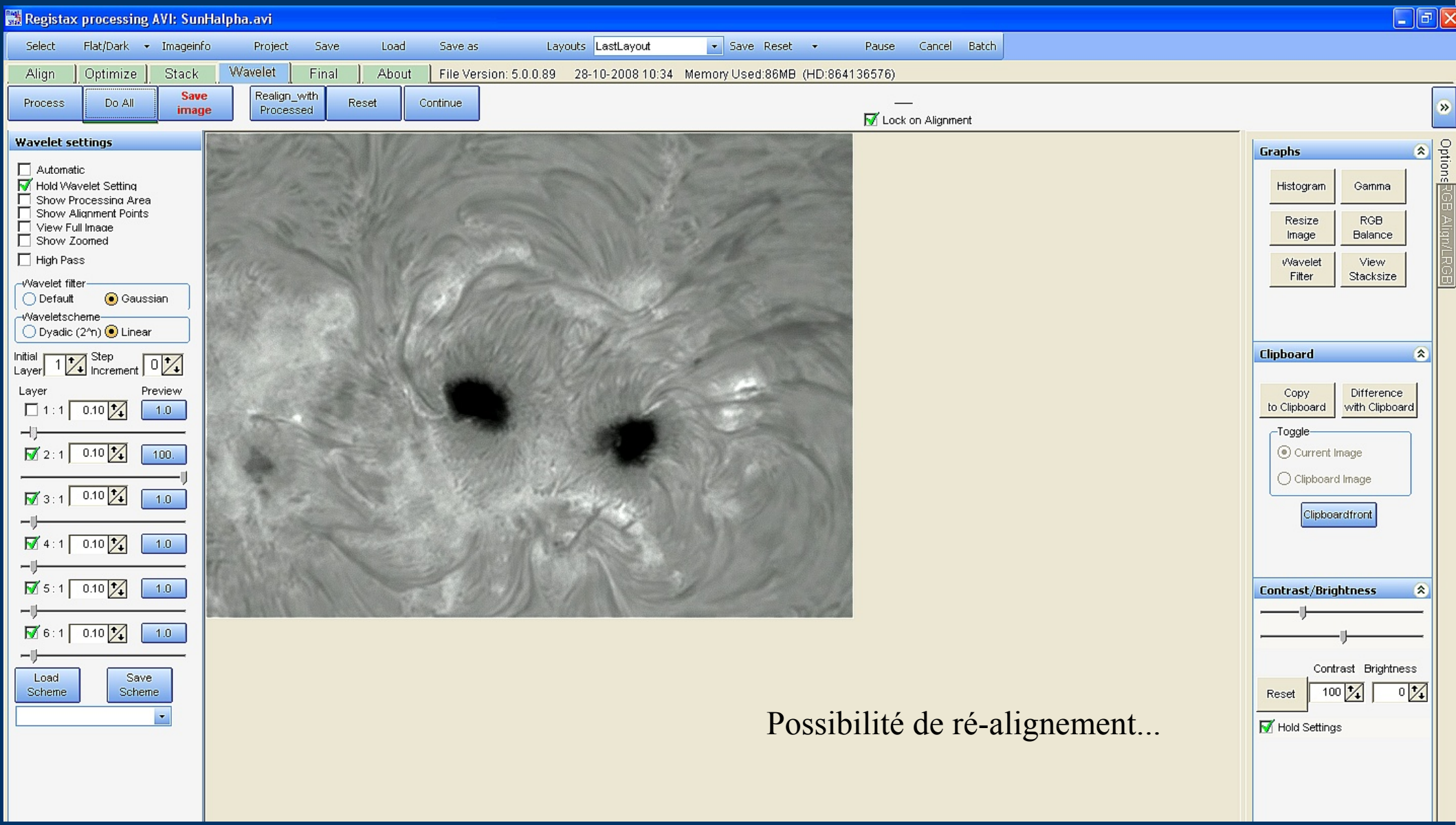
Wavelets...


Registax processing AVI: SunHalpha.avi
Select
Flat/Dark
Imageinfo
Project
Save
Load
Save as
Layouts
LastLayout
Save
Reset
Pause
Cancel
Batch
Align
Optimize
Stack
Wavelet
Final
About
File Version: 5.0.0.89
28-10-2008 10:34
Memory Used:86MB (HD:864136576)
Process
Do All
Save image
Realign_with Processed
Reset
Continue
Lock on Alignment
Wavelet settings
Automatic
Hold Wavelet Setting
Show Processing Area
Show Alignment Points
View Full Image
Show Zoomed
High Pass
Wavelet filter
Default
Gaussian
Waveletscheme
Dyadic (2^n)
Linear
Initial Layer
Step Increment
Layer
Preview
1 : 1
2 : 1
3 : 1
4 : 1
5 : 1
6 : 1
0.10
1.0
Load Scheme
Save Scheme
Graphs
Histogram
Gamma
Resize Image
RGB Balance
Wavelet Filter
View Stacksize
Clipboard
Copy to Clipboard
Difference with Clipboard
Toggle
Current Image
Clipboard Image
Clipboardfront
Contrast/Brightness
Contrast
Brightness
Reset
100
0
Hold Settings
Options
RGB Align/LRGB
100%
Calculating wavelets done
Stack size (n=92) - (640x480)

Wavelet work ...

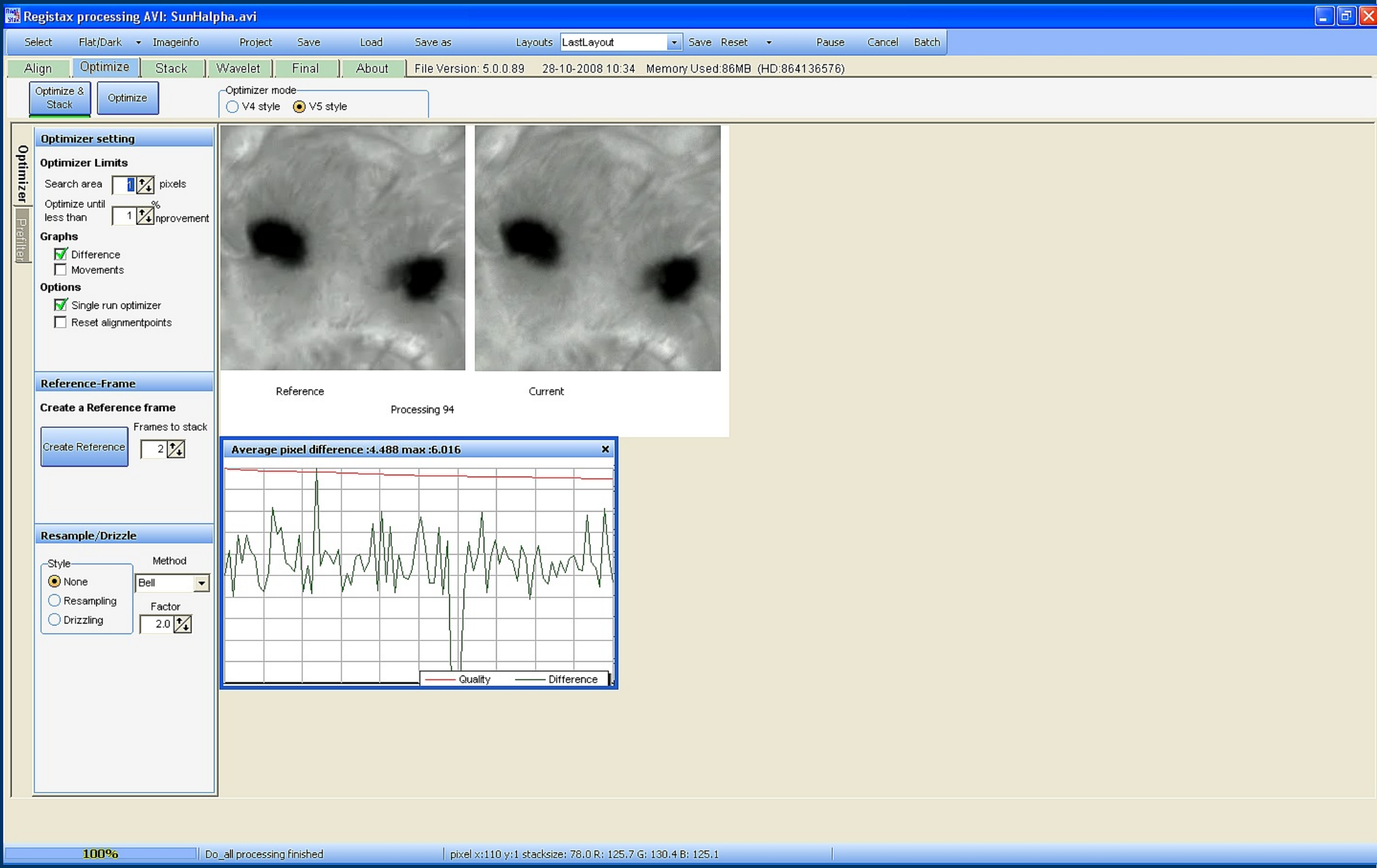


Do all ...

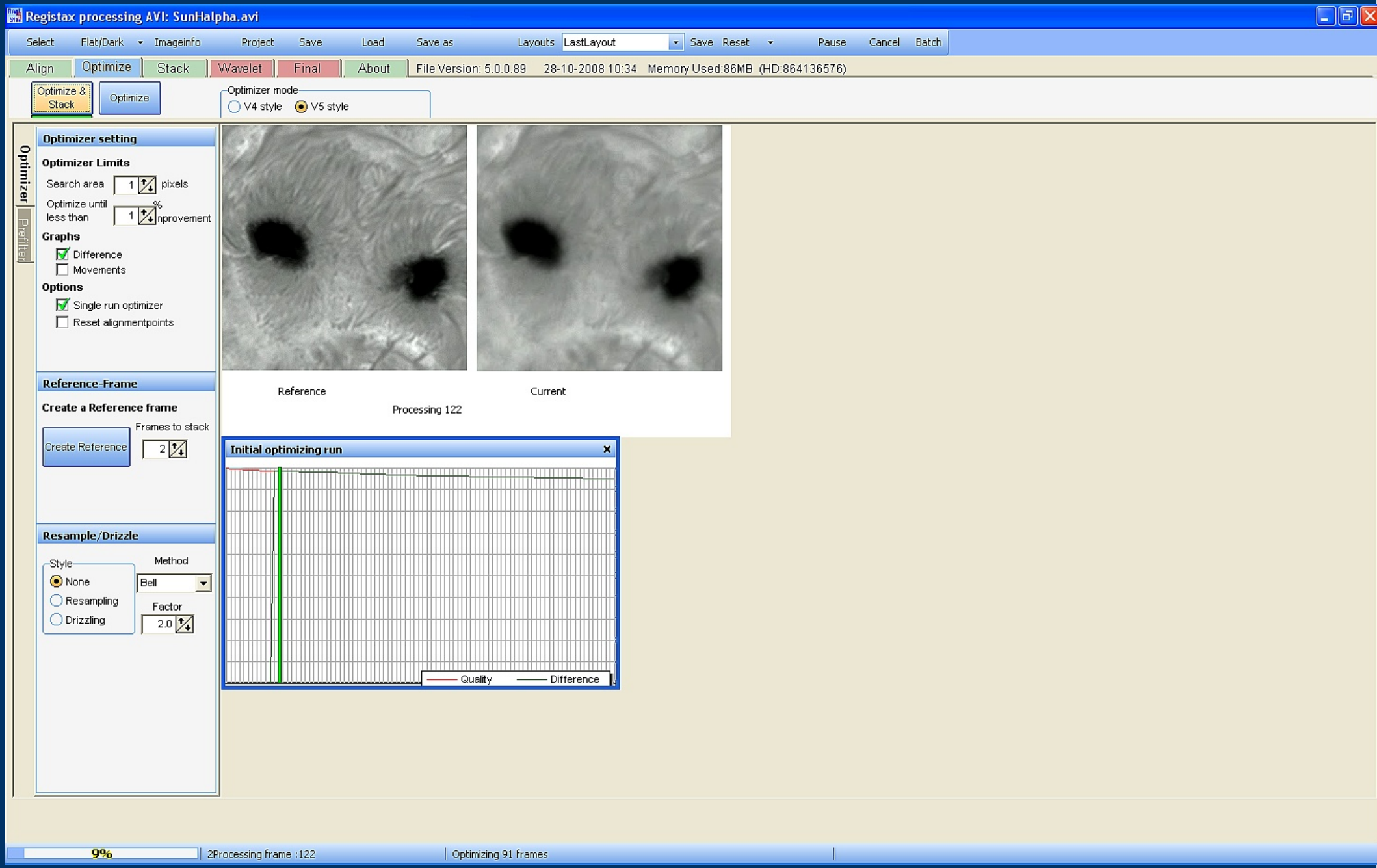


Possibilité de ré-alignement...

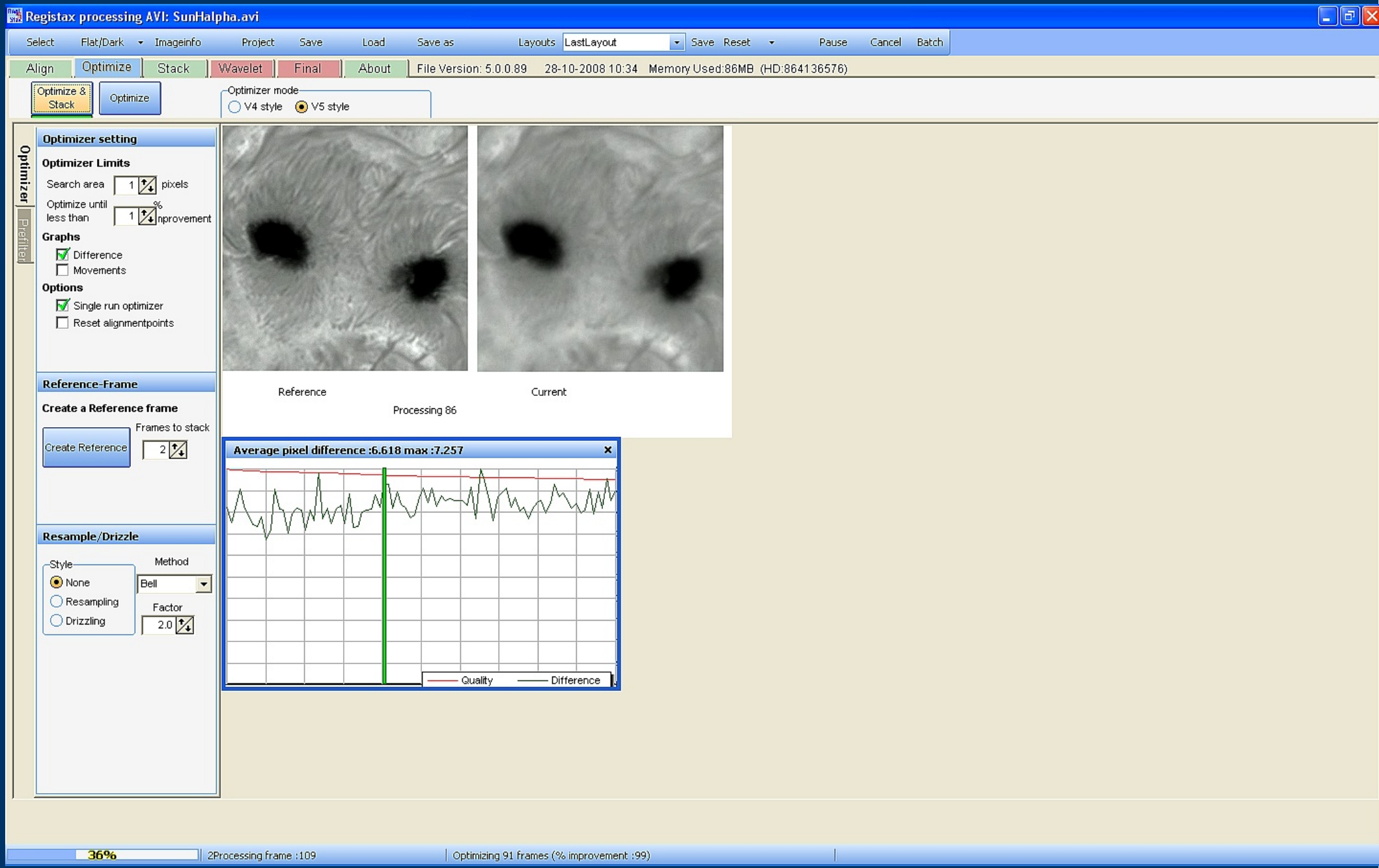
Re-alignement ...



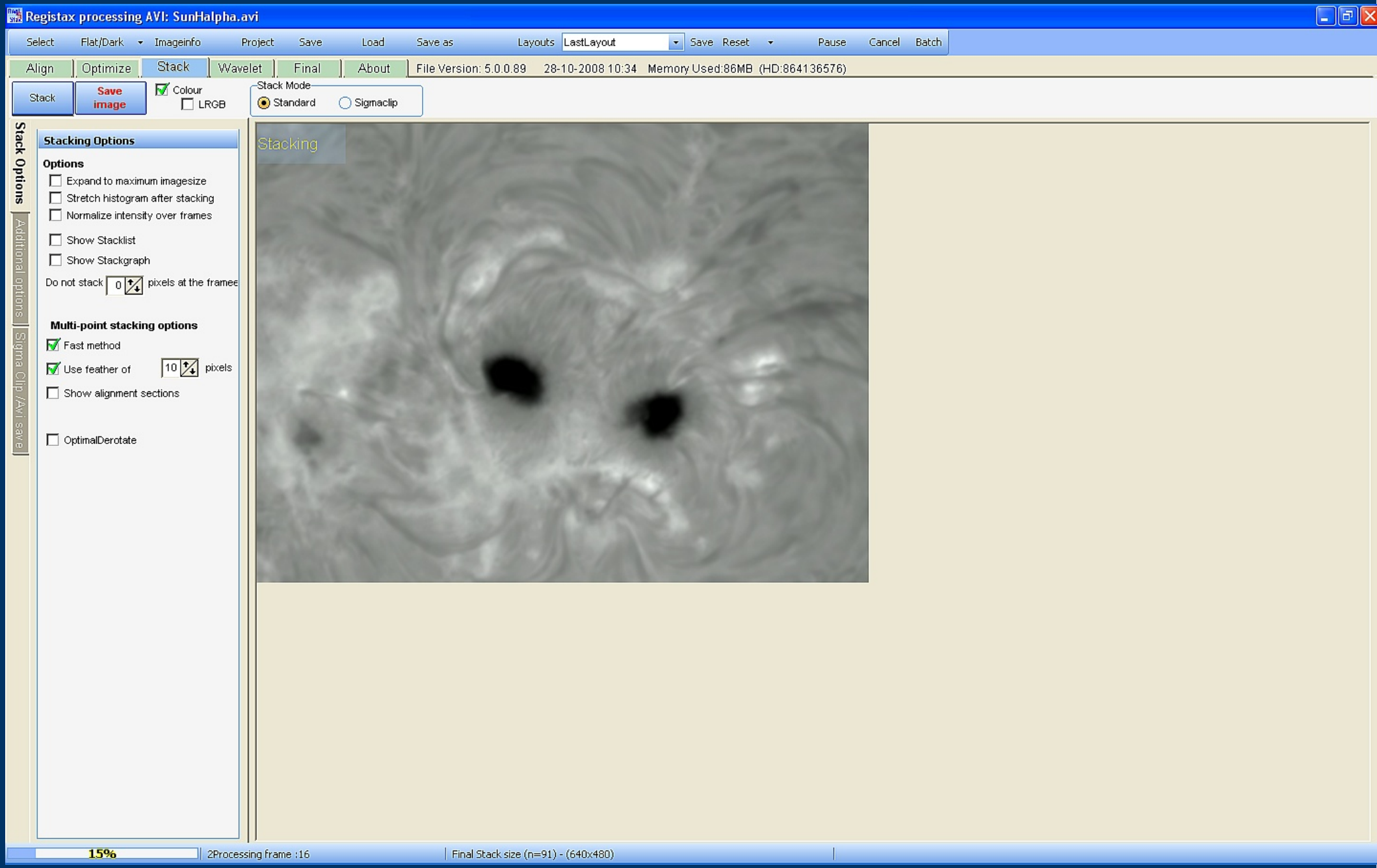
Re-alignement / optimisation ...



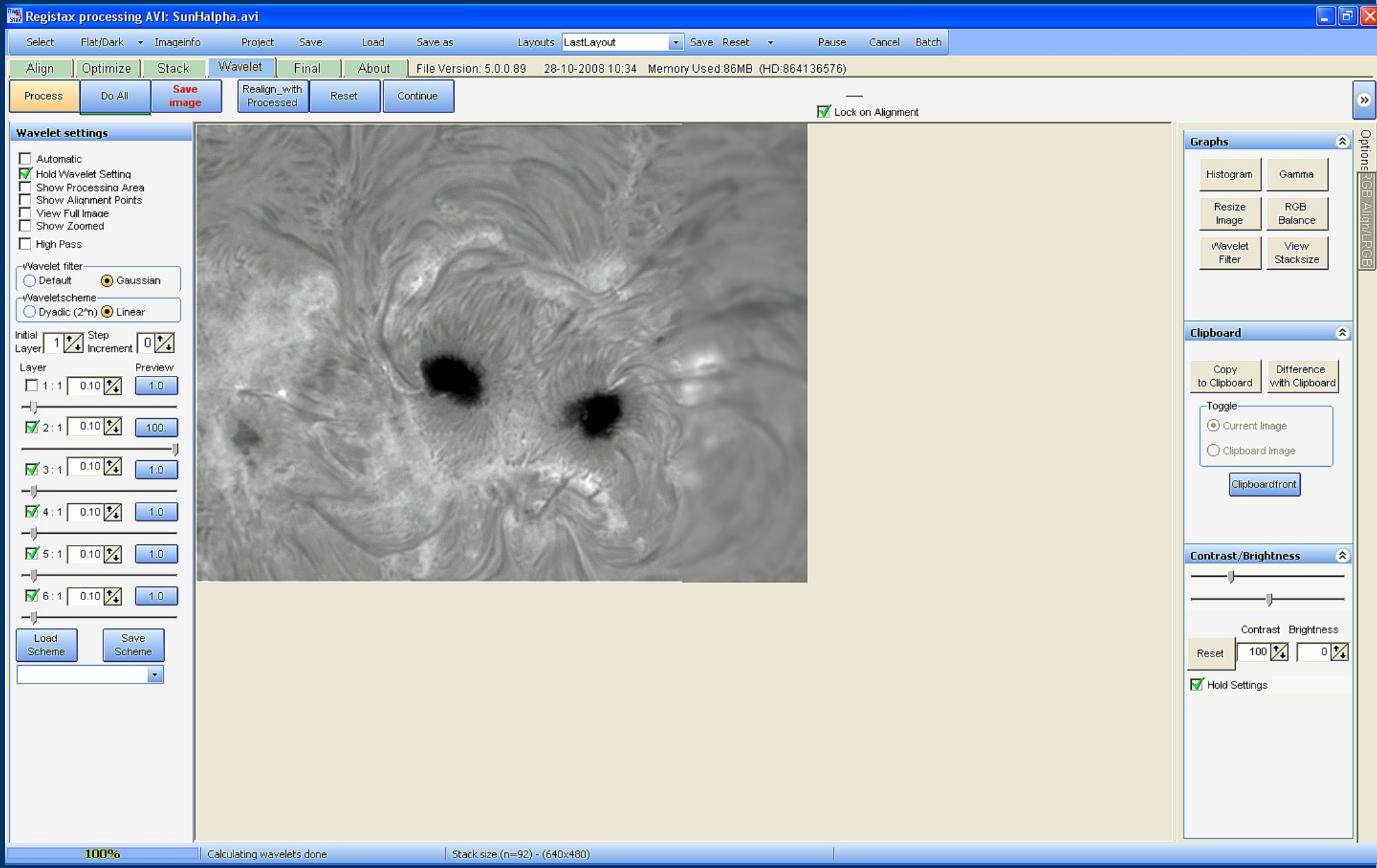
Re-alignement / optimisation ...



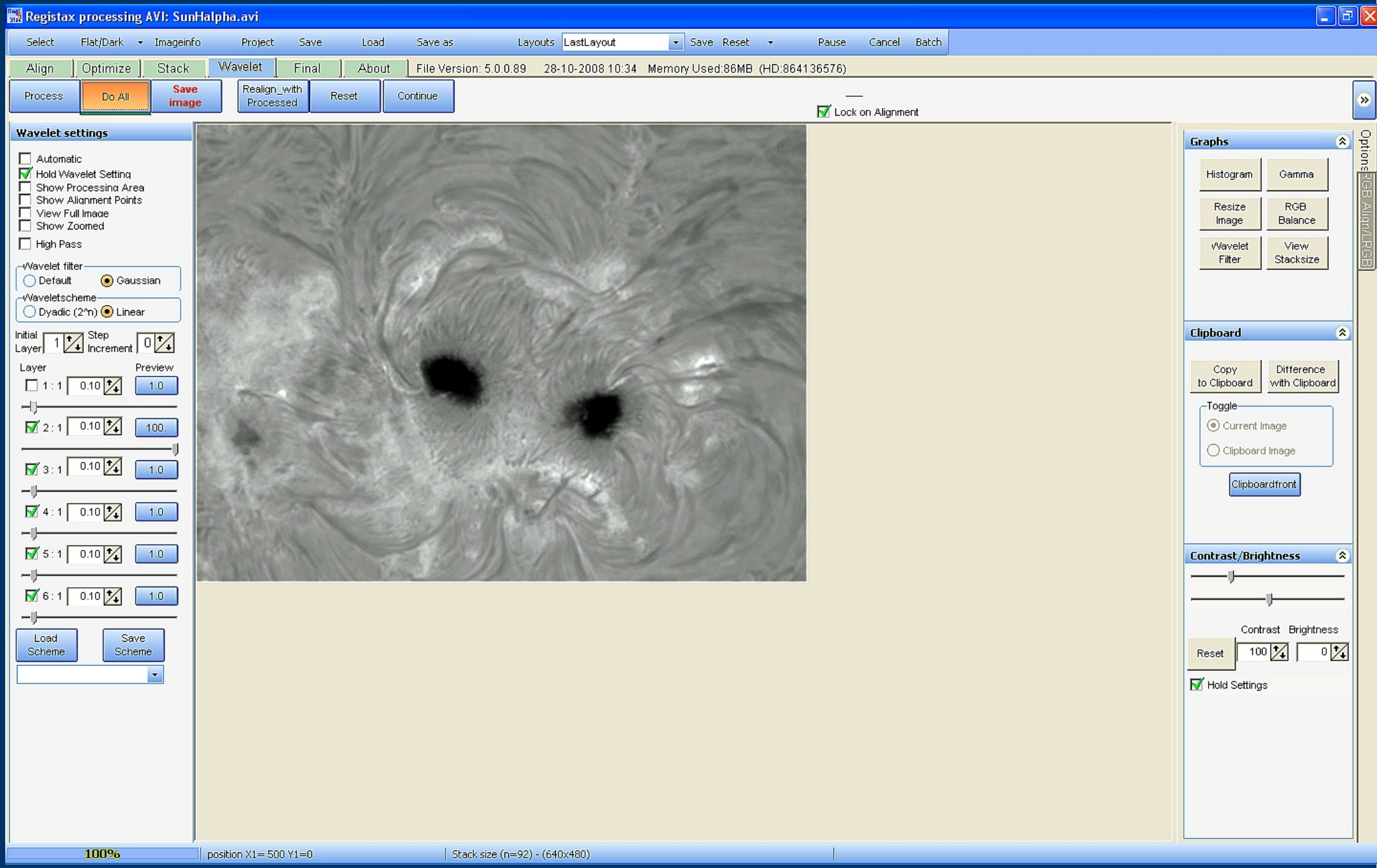
Re-alignement / stack ...



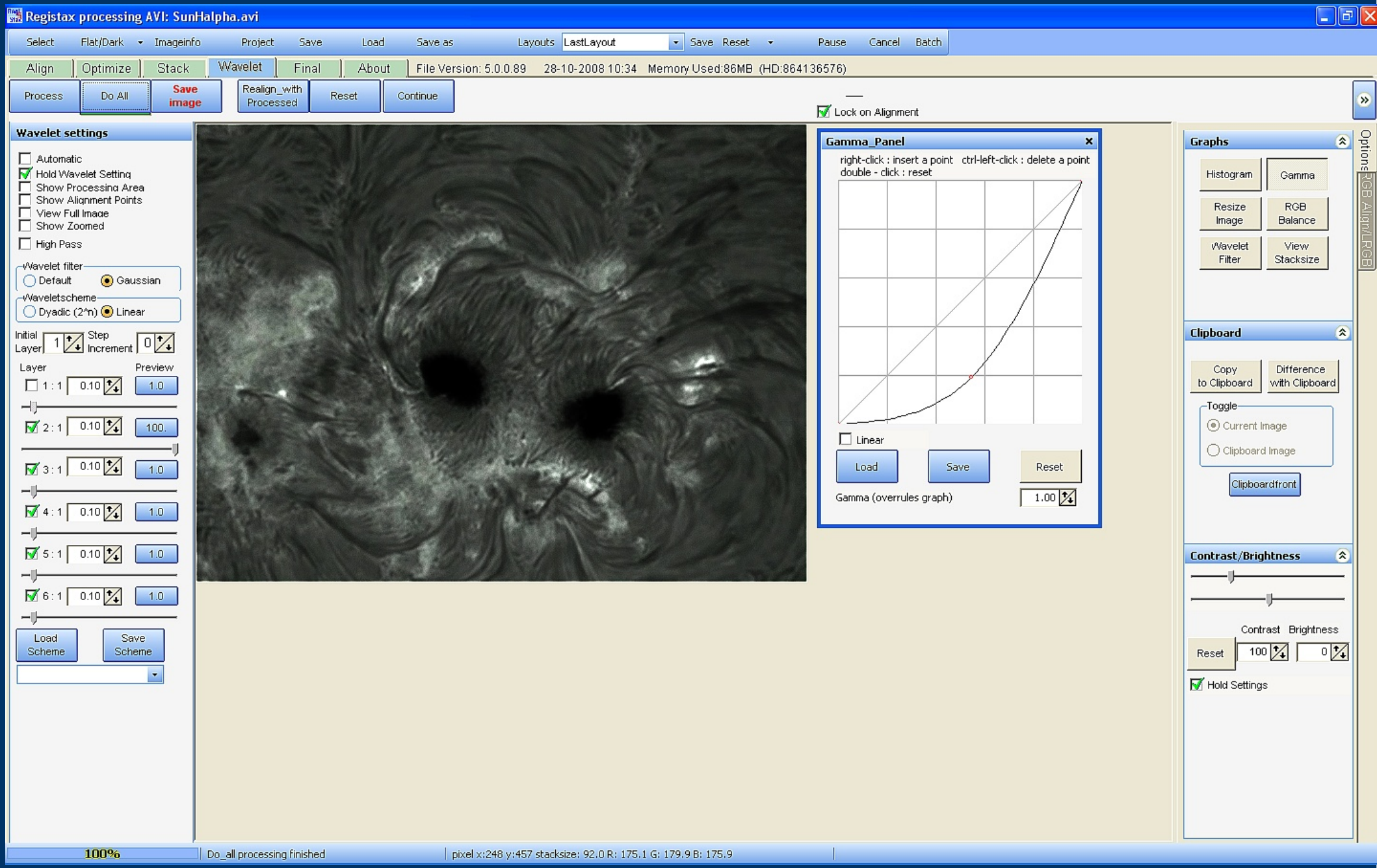
Re-alignement / wavelets ...



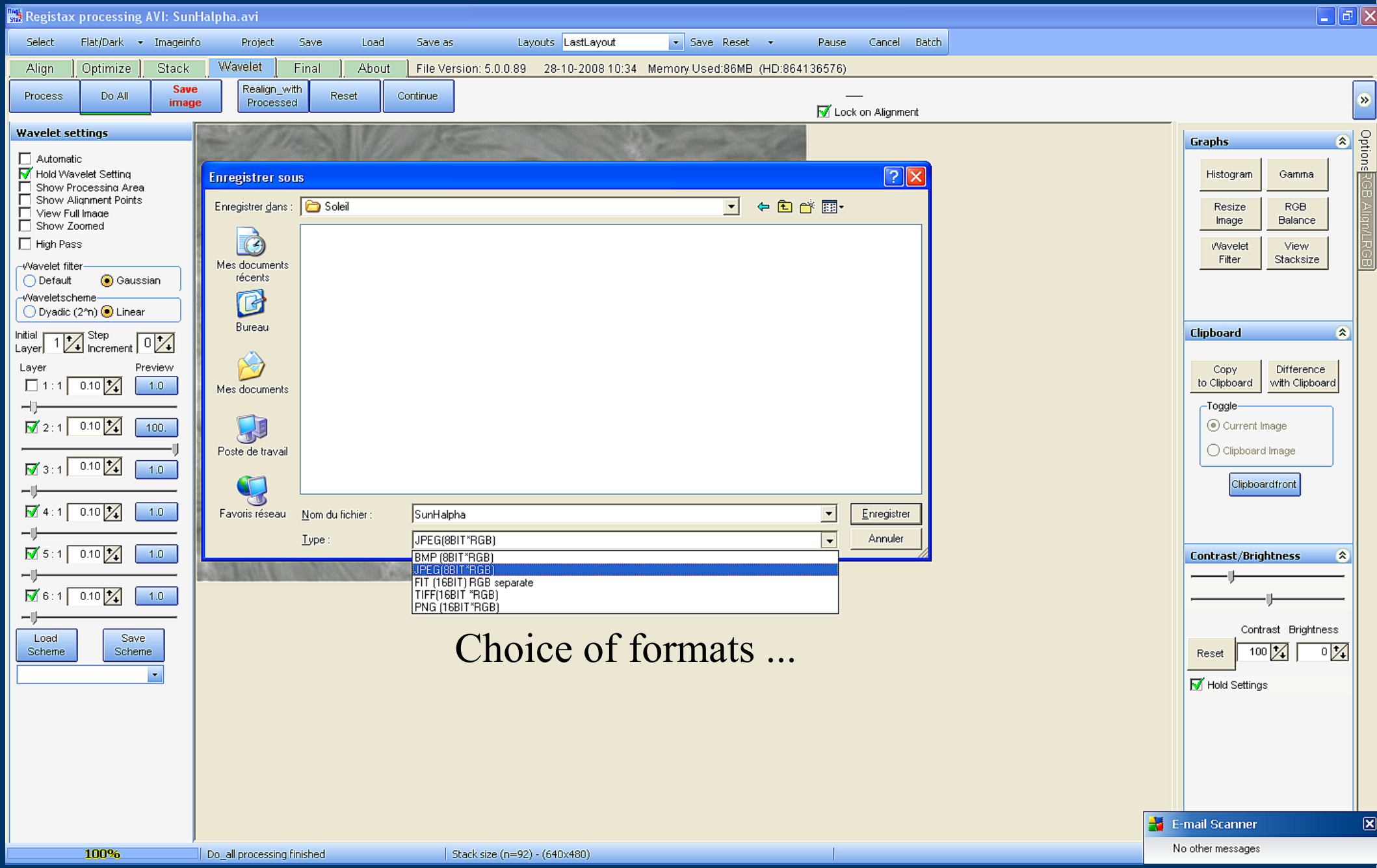
Re-alignement / Do all ...



Gamma for a more appealing image ...

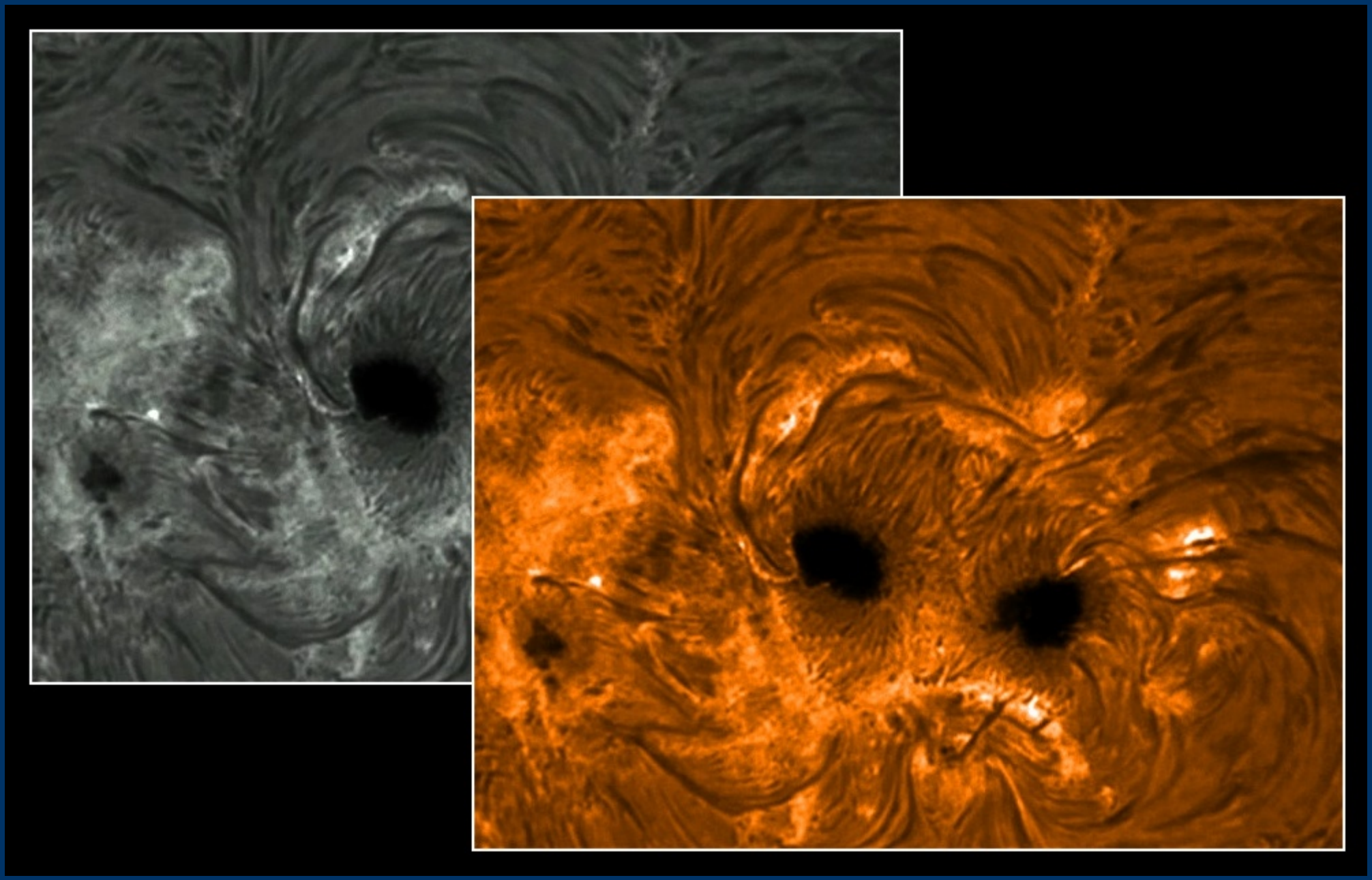


Saving ...



Choice of formats ...

Final result final after external colorisation ...



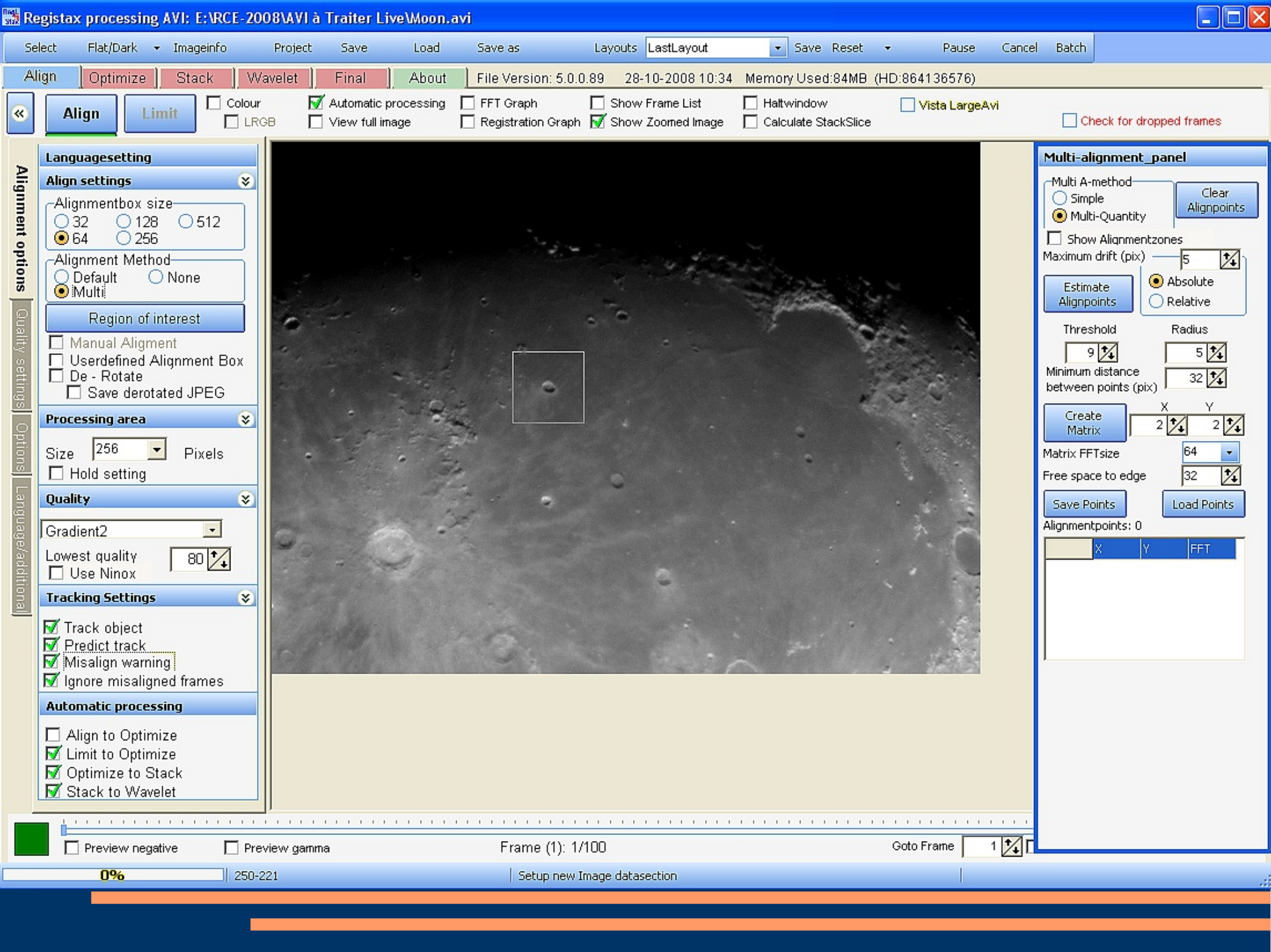
Exemple 2

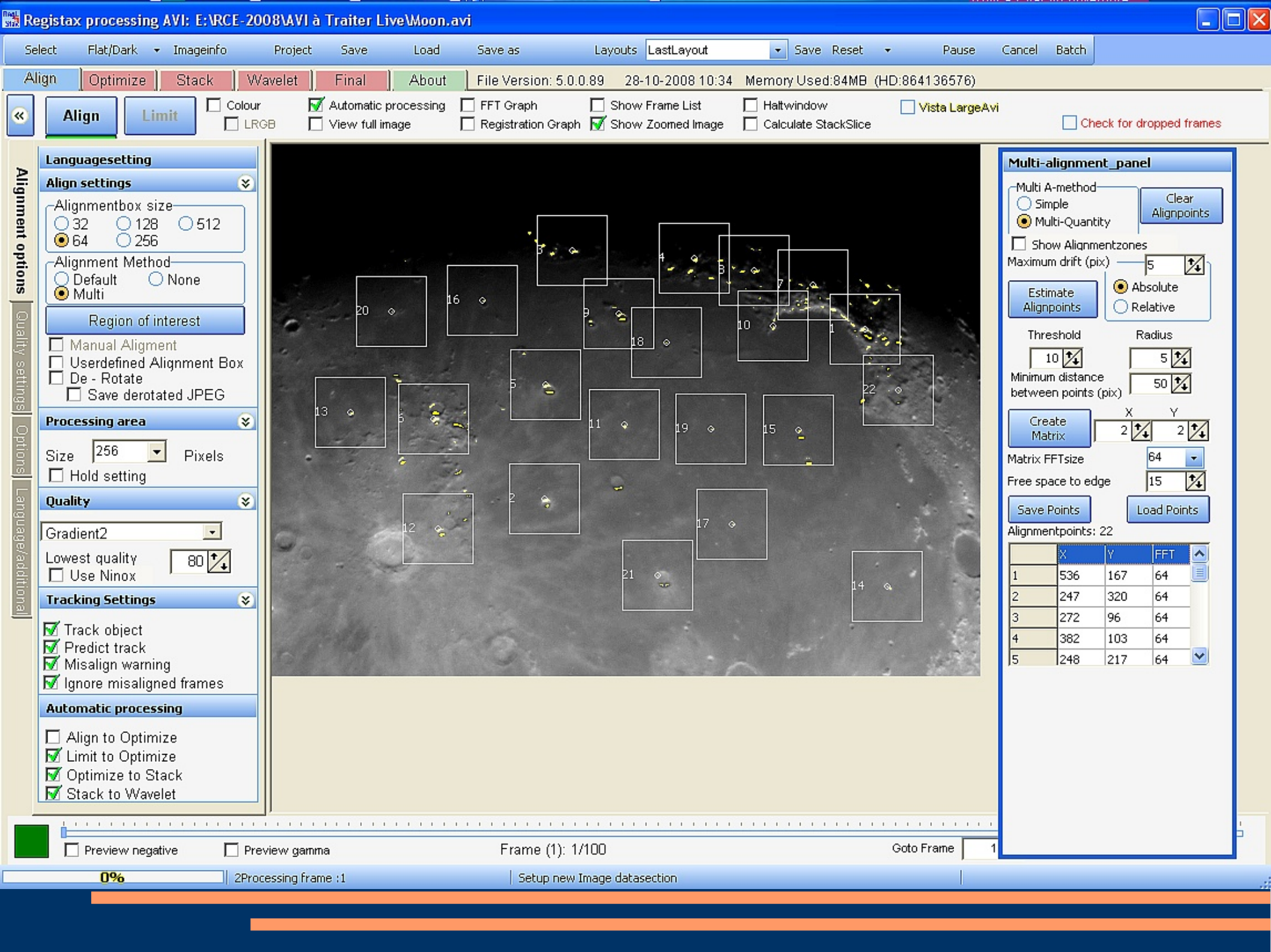
Low power Moon AVI

<--- raw image

Lune

Final result !


Registax processing AVI: E:\RCE-2008\AVI à Traiter Live\Moon.avi
Select
Flat/Dark
Imageinfo
Project
Save
Load
Save as
Layouts
LastLayout
Save
Reset
Pause
Cancel
Batch
Align
Optimize
Stack
Wavelet
Final
About
File Version: 5.0.0.89
28-10-2008 10:34
Memory Used:84MB (HD:864136576)
Align
Limit
Colour
LRGB
Automatic processing
View full image
FFT Graph
Registration Graph
Show Frame List
Show Zoomed Image
Haltwindow
Calculate StackSlice
Vista LargeAvi
Check for dropped frames
Alignment options
Quality settings
Options
Language/additional
Languagesetting
Align settings
Alignmentbox size
32
64
128
256
512
Alignment Method
Default
Multi
None
Region of interest
Manual Aligment
Userdefined Alignment Box
De - Rotate
Save derotated JPEG
Processing area
Size
256
Pixels
Hold setting
Quality
Gradient2
Lowest quality
80
Use Ninox
Tracking Settings
Track object
Predict track
Misalign warning
Ignore misaligned frames
Automatic processing
Align to Optimize
Limit to Optimize
Optimize to Stack
Stack to Wavelet
Multi-alignment_panel
Multi A-method
Simple
Multi-Quantity
Clear Alignpoints
Show Alignmentzones
Maximum drift (pix)
5
Estimate Alignpoints
Absolute
Relative
Threshold
9
Radius
5
Minimum distance between points (pix)
32
Create Matrix
X
Y
2
2
Matrix FFTsize
64
Free space to edge
32
Save Points
Load Points
Alignmentpoints: 0
X
Y
FFT
Preview negative
Preview gamma
Frame (1): 1/100
Goto Frame
1
0%
250-221
Setup new Image datasection


Registax processing AVI: E:\RCE-2008\AVI à Traiter Live\Moon.avi
Select
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Region of interest
Manual Aligment
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De - Rotate
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Pixels
Hold setting
Quality
Gradient2
Lowest quality
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Tracking Settings
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Automatic processing
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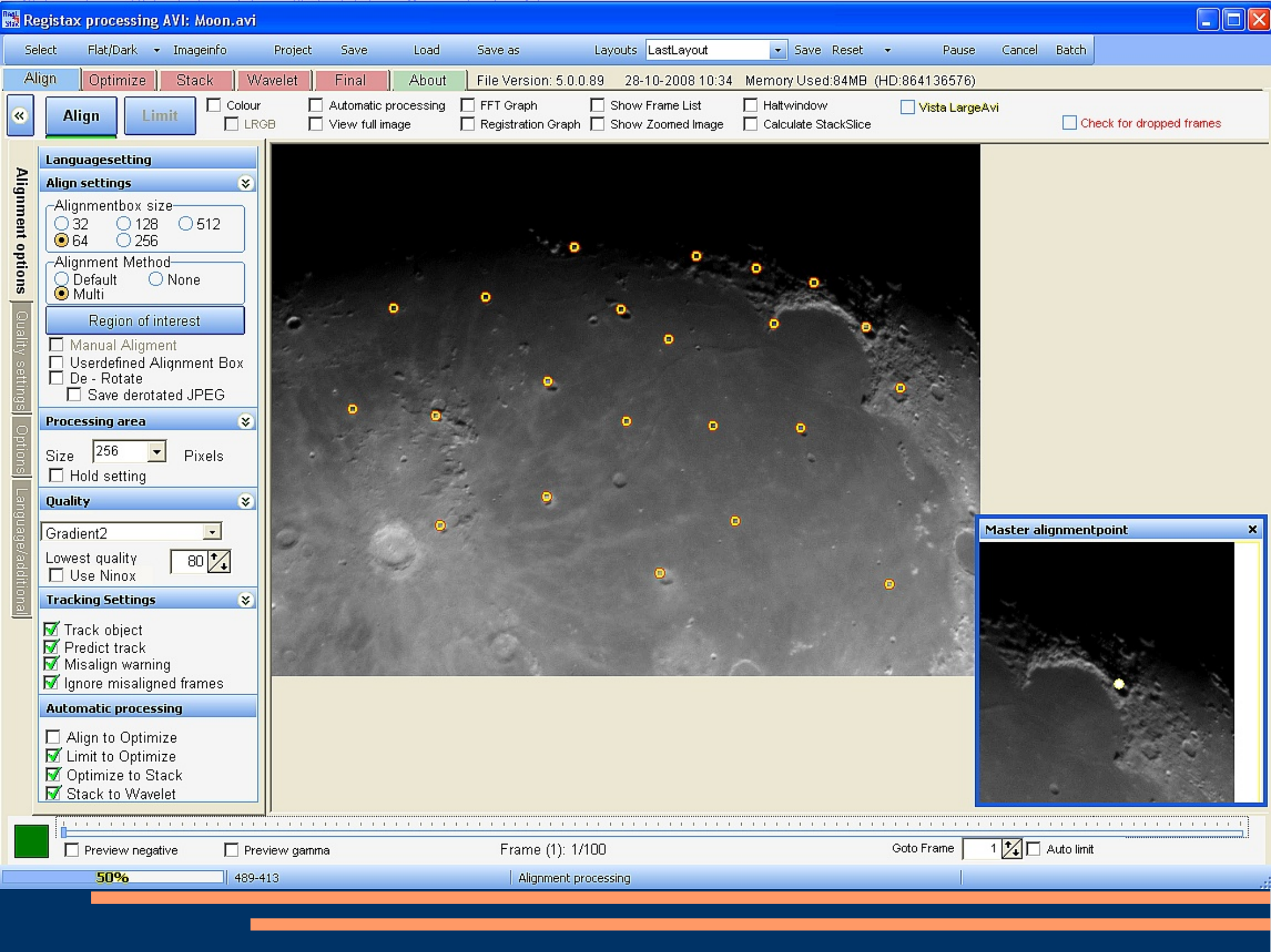
Limit to Optimize
Optimize to Stack
Stack to Wavelet
Multi-alignment_panel
Multi A-method
Simple
Multi-Quantity
Clear Alignpoints
Show Alignmentzones
Maximum drift (pix)
5
Estimate Alignpoints
Absolute
Relative
Threshold
10
Radius
5
Minimum distance between points (pix)
50
Create Matrix
X
Y
2
2
Matrix FFTsize
64
Free space to edge
15
Save Points
Load Points
Alignmentpoints: 22
X
Y
FFT
1 536 167 64
2 247 320 64
3 272 96 64
4 382 103 64
5 248 217 64
Preview negative
Preview gamma
Frame (1): 1/100
Goto Frame
1
0%
2Processing frame :1
Setup new Image datasection


Registax processing AVI: Moon.avi
Select
Flat/Dark
Imageinfo
Project
Save
Load
Save as
Layouts
LastLayout
Save
Reset
Pause
Cancel
Batch
Align
Optimize
Stack
Wavelet
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Align
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Alignment options
Quality settings
Options
Language/additional
Languagesetting
Align settings
Alignmentbox size
32
64
128
256
512
Alignment Method
Default
Multi
None
Region of interest
Manual Aligment
Userdefined Alignment Box
De - Rotate
Save derotated JPEG
Processing area
Size
256
Pixels
Hold setting
Quality
Gradient2
Lowest quality
80
Use Ninox
Tracking Settings
Track object
Predict track
Misalign warning
Ignore misaligned frames
Automatic processing
Align to Optimize
Limit to Optimize
Optimize to Stack
Stack to Wavelet
Master alignmentpoint
Preview negative
Preview gamma
Frame (1): 1/100
Goto Frame
1
Auto limit
50%
489-413
Alignment processing

Registax processing AVI: Moon.avi

Select | Flat/Dark | Imageinfo | Project | Save | Load | Save as | Layouts: LastLayout | Save | Reset | Pause | Cancel | Batch

Align | Optimize | Stack | Wavelet | Final | About | File Version: 5.0.0.89 28-10-2008 10:34 Memory Used:84MB (HD:864136576)

Optimize & Stack | Optimize

Optimizer mode: V4 style | V5 style

Optimizer | Prefilter

Optimizer setting

Optimizer Limits

Search area 1 pixels

Optimize until less than 1 % improvement

Graphs

- [x] Difference
- [ ] Movements

Options

- [x] Single run optimizer
- [ ] Reset alignmentpoints

Reference-Frame

Create a Reference frame

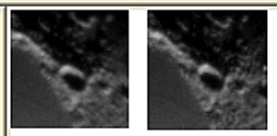
Create Reference | Frames to stack 49

Resample/Drizzle

Style: None | Resampling | Drizzling

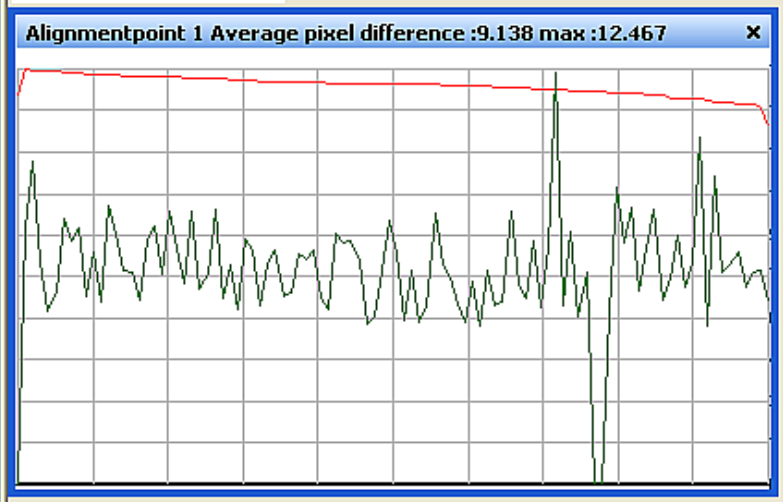
Method: Bell

Factor 2.0



Reference Current

Processing 81



69% | 3Processing frame 95 Fps 8.805 | Optimizing 100 frames

Registax processing AVI: Moon.avi

Select | Flat/Dark | Imageinfo | Project | Save | Load | Save as | Layouts | LastLayout | Save | Reset | Pause | Cancel | Batch

Align | Optimize | Stack | Wavelet | Final | About | File Version: 5.0.0.89 28-10-2008 10:34 Memory Used:84MB (HD:864136576)

Stack | Save image | Colour | LRGB | Stack Mode: Standard | Sigmaclip

Stack Options | Additional options | Sigma Clip /Avi save

Stacking Options

Options

- [ ] Expand to maximum imagesize
- [ ] Stretch histogram after stacking
- [ ] Normalize intensity over frames
- [ ] Show Stacklist
- [ ] Show Stackgraph

Do not stack 0 pixels at the framee

Multi-point stacking options

- [ ] Fast method
- [x] Use feather of 10 pixels
- [ ] Show alignment sections
- [ ] OptimalDerotate

24% | 2Processing frame :24 | Final Stack size (n=100) - (640x480)

Registax processing AVI: Moon.avi

Select | Flat/Dark | Imageinfo | Project | Save | Load | Save as | Layouts: LastLayout | Save | Reset | Pause | Cancel | Batch

Align | Optimize | Stack | Wavelet | Final | About | File Version: 5.0.0.89 | 28-10-2008 10:34 | Memory Used:85MB (HD:864136576)

Process | Do All | Save image | Realign_with Processed | Reset | Continue

Lock on Alignment

Wavelet settings

- [ ] Automatic
- [x] Hold Wavelet Setting
- [ ] Show Processing Area
- [ ] Show Alignment Points
- [ ] View Full Image
- [ ] Show Zoomed
- [ ] High Pass

Wavelet filter: ( ) Default (•) Gaussian

Waveletscheme: ( ) Dyadic (2^n) (•) Linear

Initial Layer: 1 Step Increment: 0

Layer		Preview
[x] 1 : 1	0.10	1.0
[x] 2 : 1	0.10	1.0
[x] 3 : 1	0.10	1.0
[x] 4 : 1	0.10	1.0
[x] 5 : 1	0.10	1.0
[x] 6 : 1	0.10	1.0

Load Scheme | Save Scheme

Multi-alignment_panel

Multi A-method: ( ) Simple (•) Multi-Quantity

Clear Alignpoints

- [ ] Show Alignmentzones

Maximum drift (pix): 5

Estimate Alignpoints

(•) Absolute ( ) Relative

Threshold: 10 Radius: 5

Minimum distance between points (pix): 50

Create Matrix X: 2 Y: 2

Matrix FFTsize: 64

Free space to edge: 15

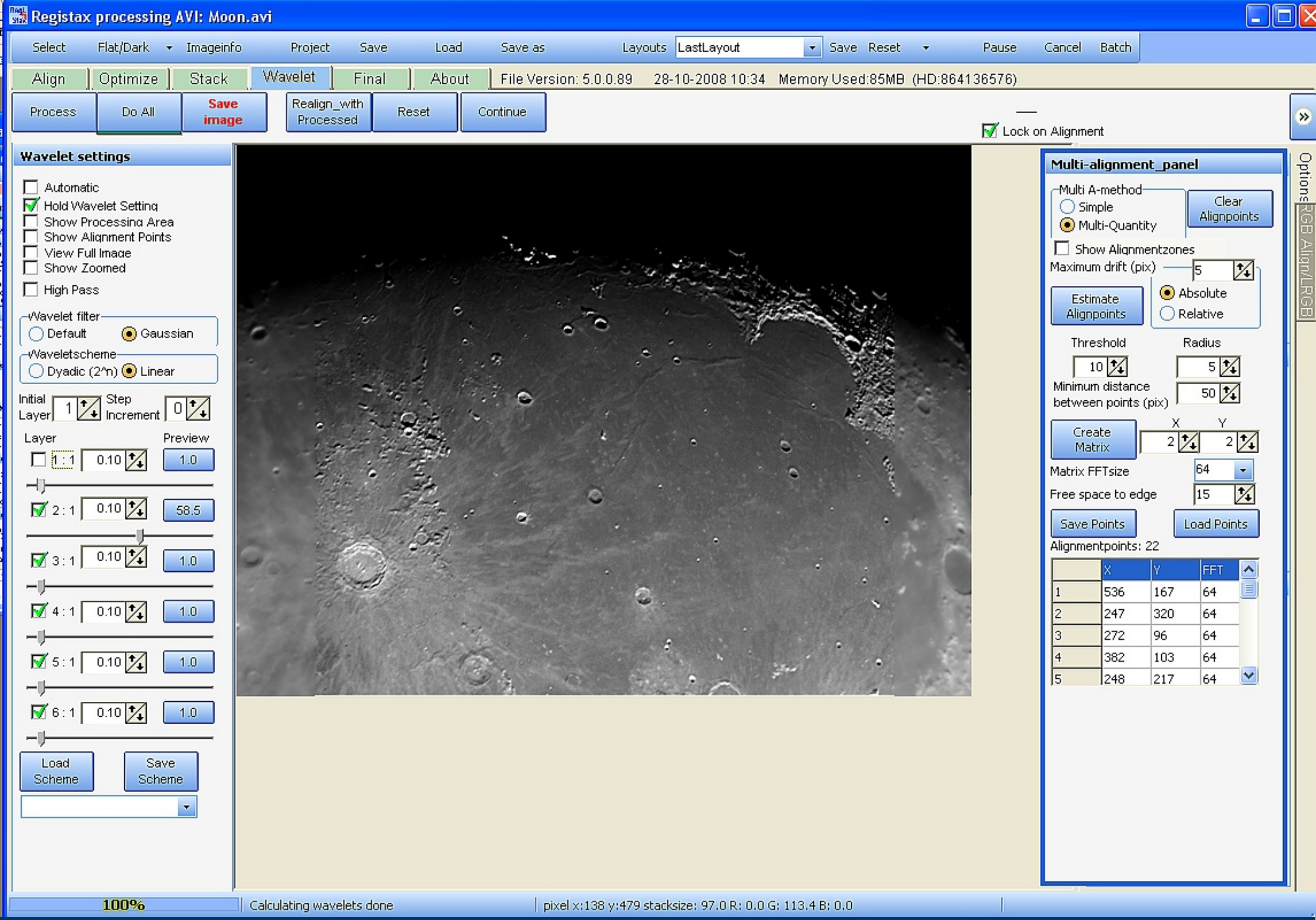
Save Points | Load Points

Alignmentpoints: 22

	X	Y	FFT
1	536	167	64
2	247	320	64
3	272	96	64
4	382	103	64
5	248	217	64

Options | RGB Align/LRGB

100% | Calculating wavelets done | Stack size (n=100) - (640x480)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Show Zoomed
High Pass
Wavelet filter
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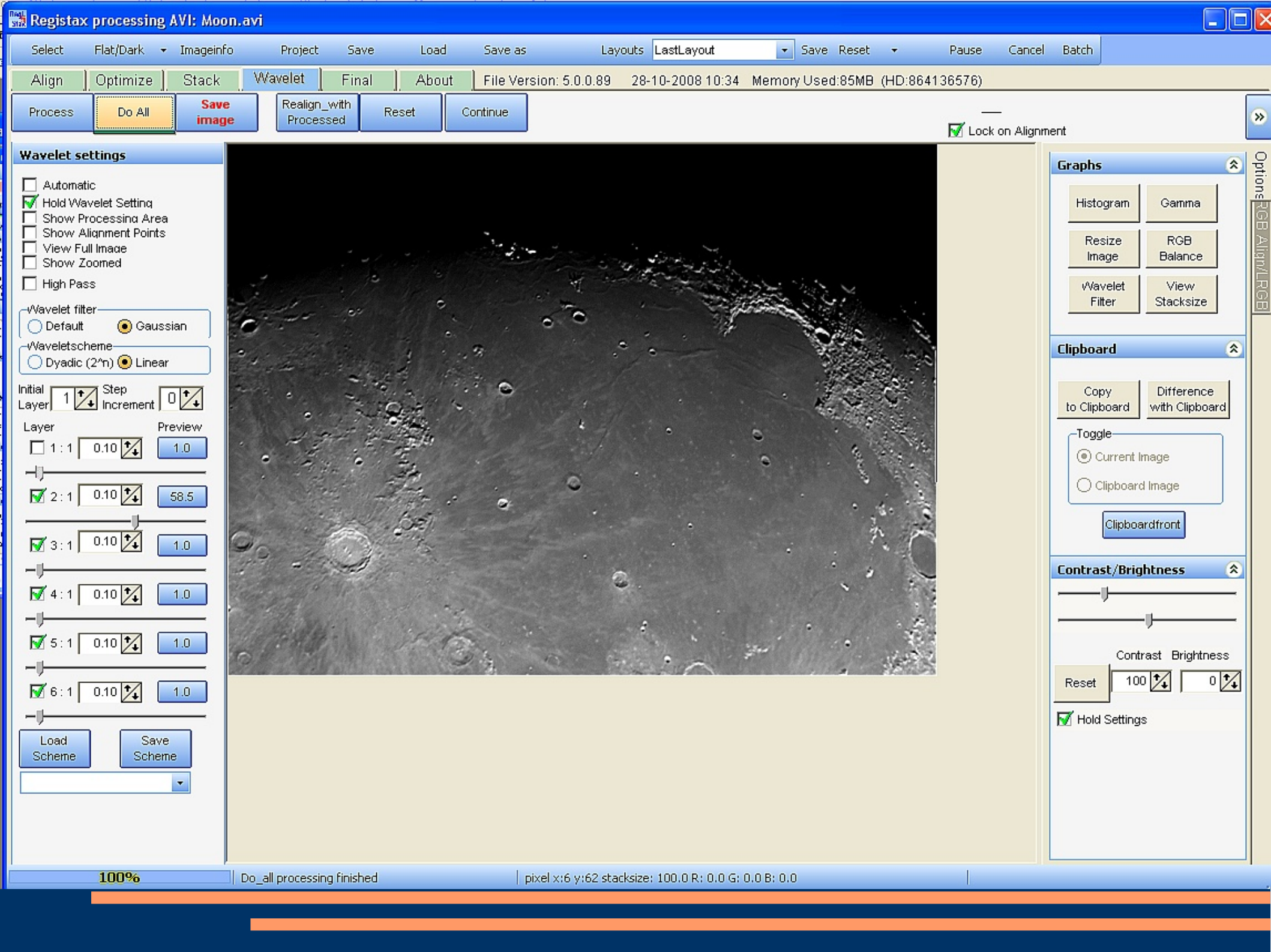
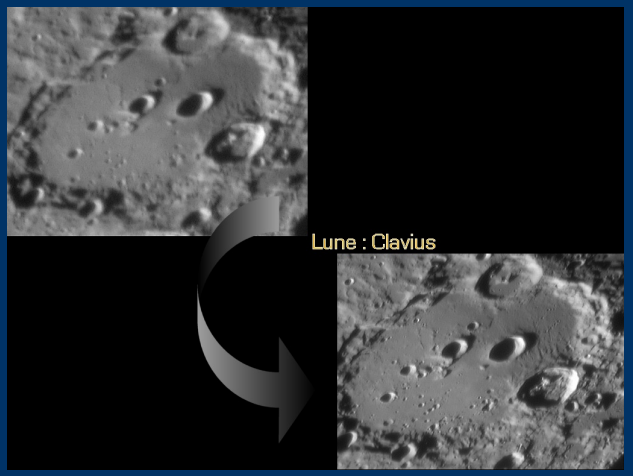
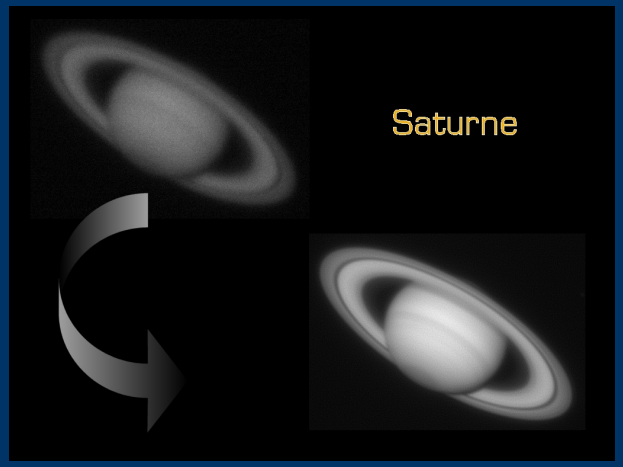
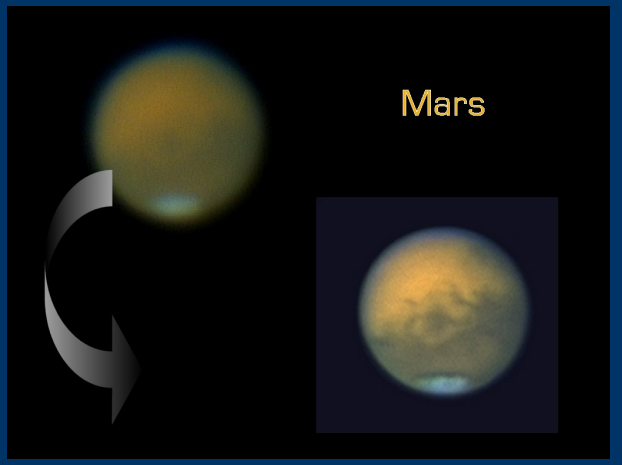
Gaussian
Waveletscheme
Dyadic (2^n)
Linear
Initial Layer
Step Increment
Layer
Preview
1 : 1
2 : 1
3 : 1
4 : 1
5 : 1
6 : 1
Load Scheme
Save Scheme
Multi-alignment_panel
Multi A-method
Simple
Multi-Quantity
Clear Alignpoints
Show Alignmentzones
Maximum drift (pix)
Estimate Alignpoints
Absolute
Relative
Threshold
Radius
Minimum distance between points (pix)
Create Matrix
X
Y
Matrix FFTsize
Free space to edge
Save Points
Load Points
Alignmentpoints: 22
FFT
1 536 167 64
2 247 320 64
3 272 96 64
4 382 103 64
5 248 217 64
Options
RGB Align/LRGB
100%
Calculating wavelets done
pixel x:138 y:479 stacksize: 97.0 R: 0.0 G: 113.4 B: 0.0

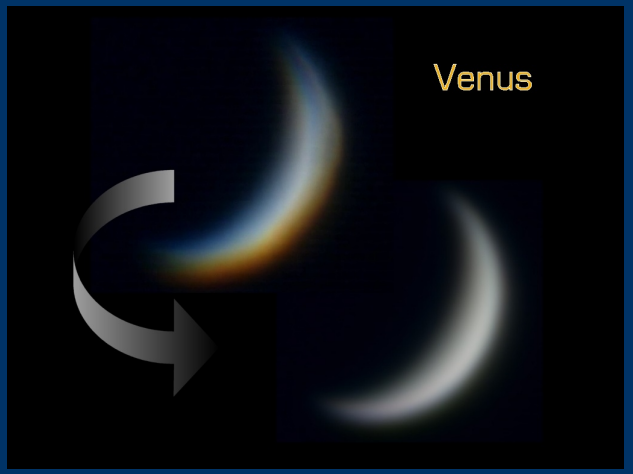

Registax processing AVI: Moon.avi
Select
Flat/Dark
Imageinfo
Project
Save
Load
Save as
Layouts
LastLayout
Save
Reset
Pause
Cancel
Batch
Align
Optimize
Stack
Wavelet
Final
About
File Version: 5.0.0.89
28-10-2008 10:34
Memory Used:85MB (HD:864136576)
Process
Do All
Save image
Realign_with Processed
Reset
Continue
Lock on Alignment
Wavelet settings
Automatic
Hold Wavelet Setting
Show Processing Area
Show Alignment Points
View Full Image
Show Zoomed
High Pass
Wavelet filter
Default
Gaussian
Waveletscheme
Dyadic (2^n)
Linear
Initial Layer
Step Increment
Layer
Preview
1 : 1
2 : 1
3 : 1
4 : 1
5 : 1
6 : 1
Load Scheme
Save Scheme
Graphs
Histogram
Gamma
Resize Image
RGB Balance
Wavelet Filter
View Stacksize
Clipboard
Copy to Clipboard
Difference with Clipboard
Toggle
Current Image
Clipboard Image
Clipboardfront
Contrast/Brightness
Contrast
Brightness
Reset
Hold Settings
Options
RGB Align/LRGB
100%
Do_all processing finished
pixel x:6 y:62 stacksize: 100.0 R: 0.0 G: 0.0 B: 0.0

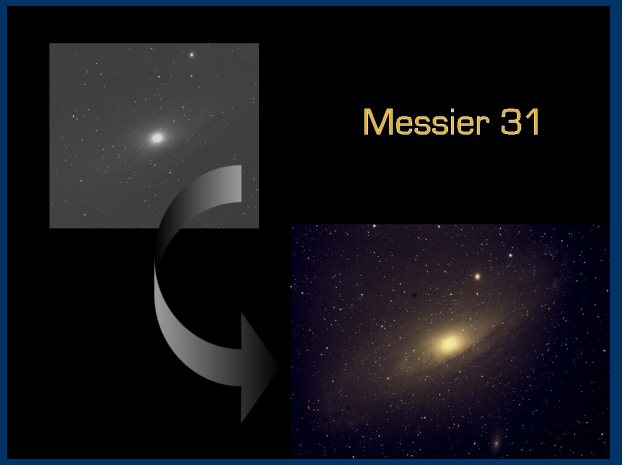
Other exemples ...











Maintenant pour terminer ....

Ouvrons ensemble la dernière version en ma possession de REGISTAX V5 Beta

En vue de la présentation de demain où nous verrons les fonctions avancées, merci de me transmettre le plus tôt possible vos éventuelles questions pointues.
Une petite note à la fin de cette séance ou un email en début de soirée (sweiller@free.fr / mettre comme sujet : RCE/2008).
Des images sur mon site : http://sweiller.free.fr