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## Usage of CRG\_RERENDER

Introducing the usage of crg\_render. Examples are included. The file comments are optimized for the matlab publishing makro.

```
% Copyright 2005-2011 OpenCRG - VIRES Simulationstechnologie GmbH -
% Holger Helmich
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% distributed under the License is distributed on an "AS IS" BASIS,
% WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
% See the License for the specific language governing permissions and
% limitations under the License.
```

```
%  
% More Information on OpenCRG open file formats and tools can be found at  
%  
%      http://www.opencrg.org  
%  
% $Id: crg_test_map_rerender.m 1 2011-06-08 11:36:00Z hhelmich $
```

## Test proceedings

- generate 0-z-crg file
- add z-values ( optional )
- rerender crg
- display result

```
% DEFAULT SETTINGS
% clear enviroment
clear all;
close all;
```

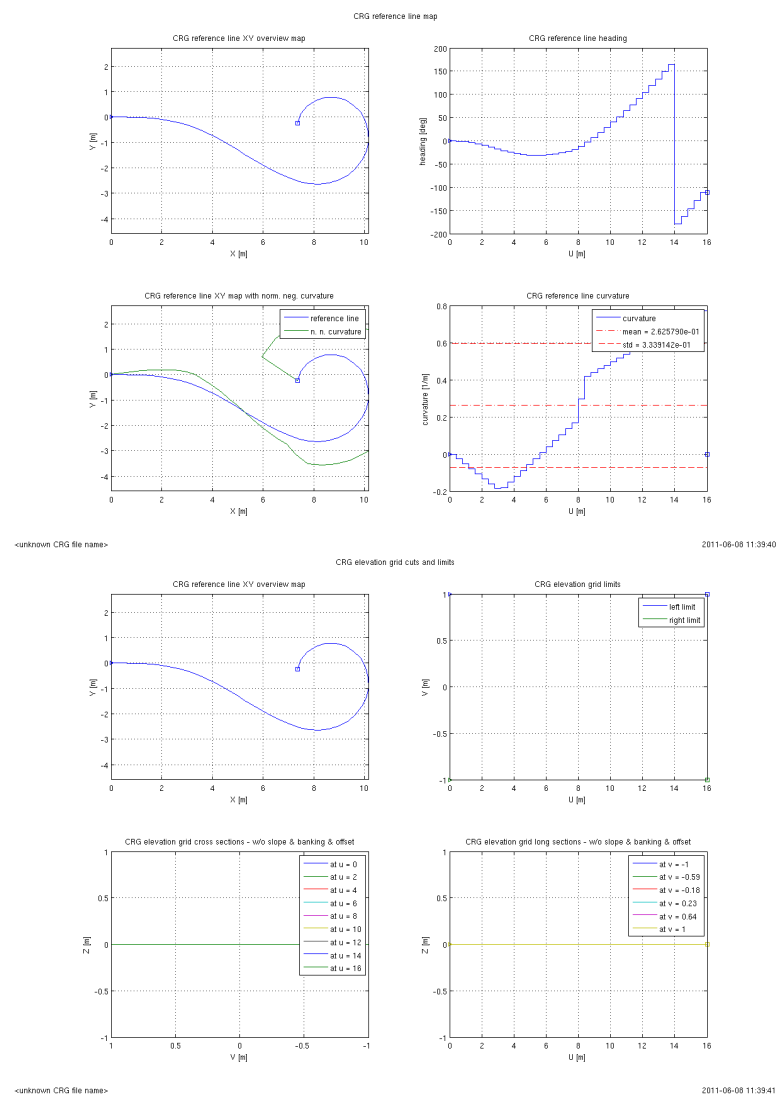
## Test1 ( different uinc )

```
c = { 3 { 0 -0.2/3 } ... % klothoide
      ; 5 {-0.2 0.4/5 } ... % turning klothoide
      ; 8 { 0.4 0.4/8 } ... % circle
    };
```

```
dat1 = crg_gen_csb2crg0([], 16, 1, c);
```

```
data = crg_rerender( dat1, 0.4 );
```

```
crg_show(data);
```



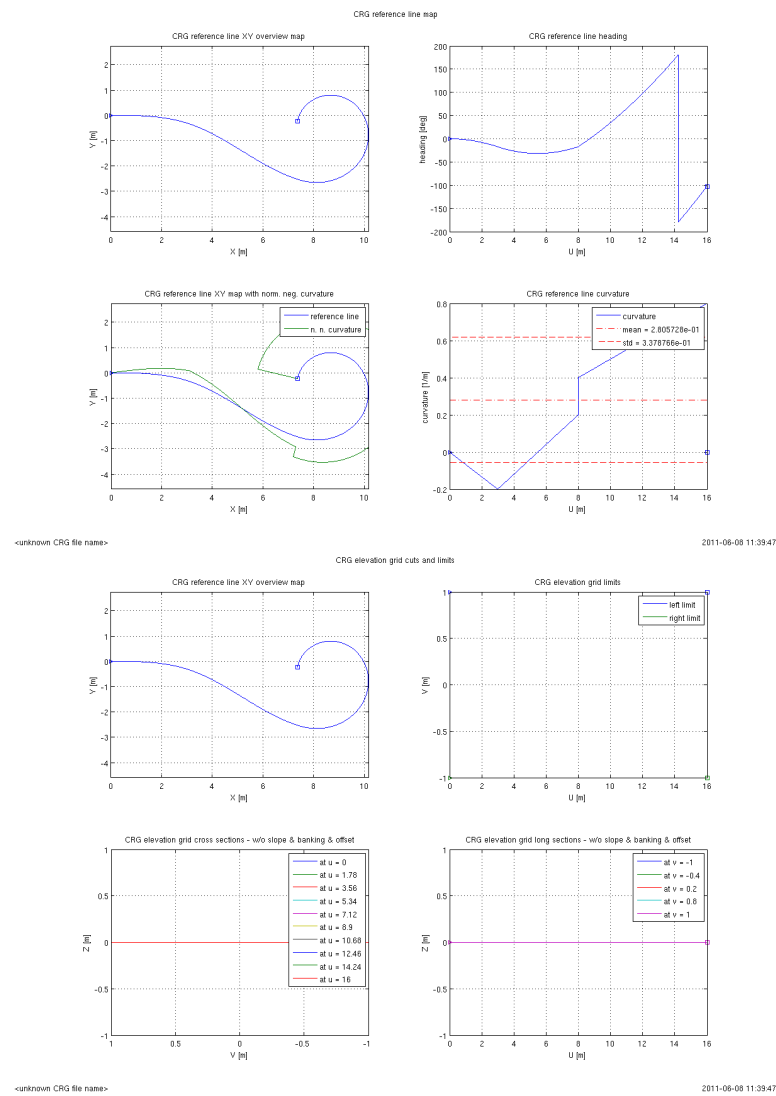


## Test2 ( different vinc )

```
c = { 3 { 0 -0.2/3 } ... % klothoide
      ; 5 {-0.2 0.4/5 } ... % turning klothoide
      ; 8 { 0.4 0.4/8 } ... % circle
    };
```

```
dat1 = crg_gen_csb2crg0([], 16, 1, c);
data = crg_rerender( dat1, [0.01, 0.2] );
```

```
crg_show(data);
```



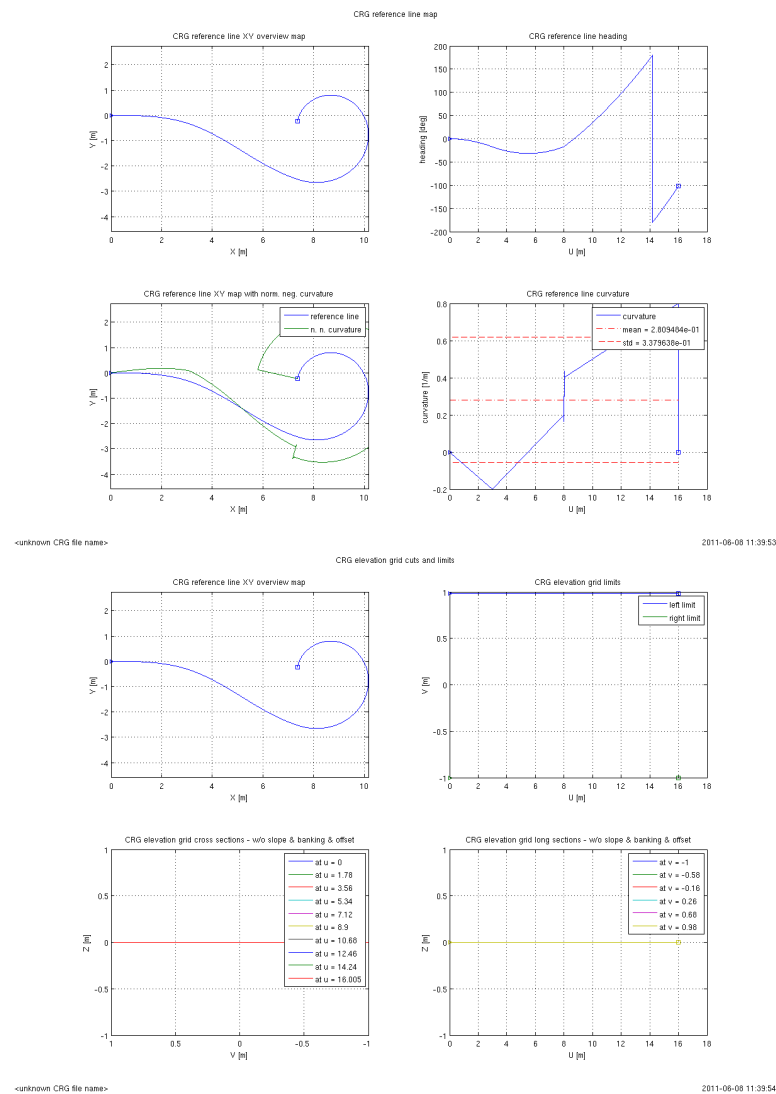


### Test3 ( different uinc, vinc )

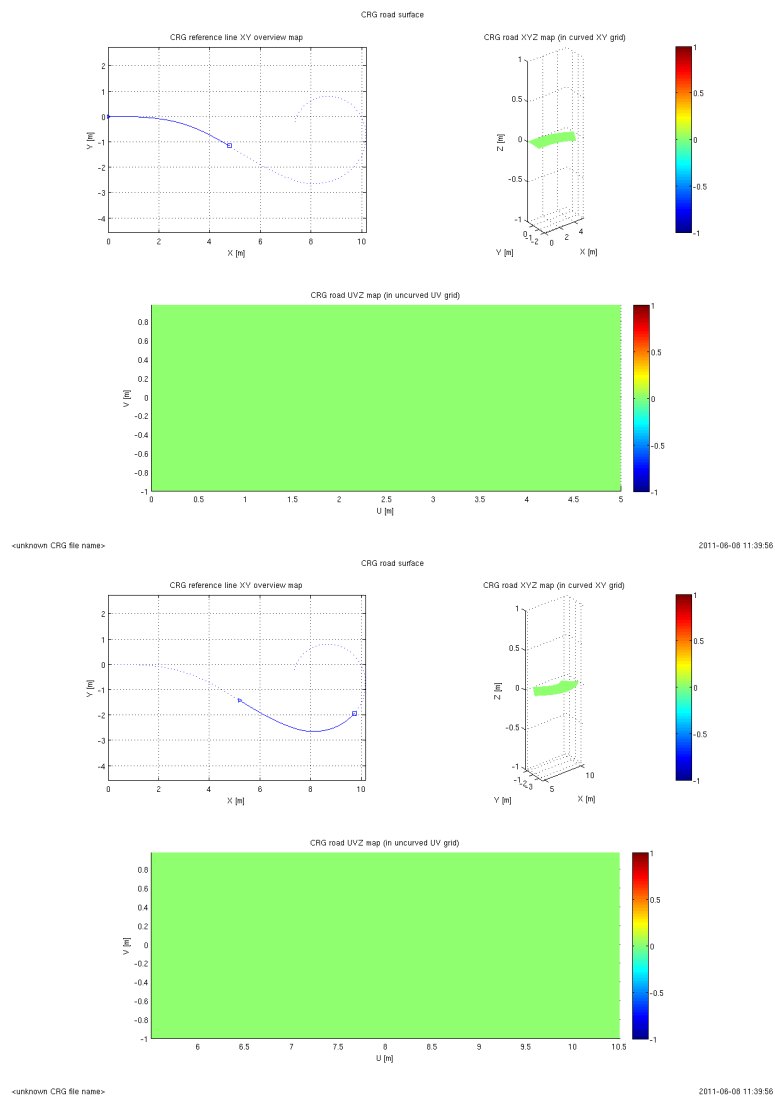
```
c = { 3 { 0 -0.2/3 } ... % klothoide
      ; 5 {-0.2 0.4/5 } ... % turning klothoide
      ; 8 { 0.4 0.4/8 } ... % circle
    };
```

```
dat1 = crg_gen_csb2crg0([], 16, 1, c);
data = crg_rerender( dat1, [0.005, 0.03] );
```

```
crg_show(data);
```









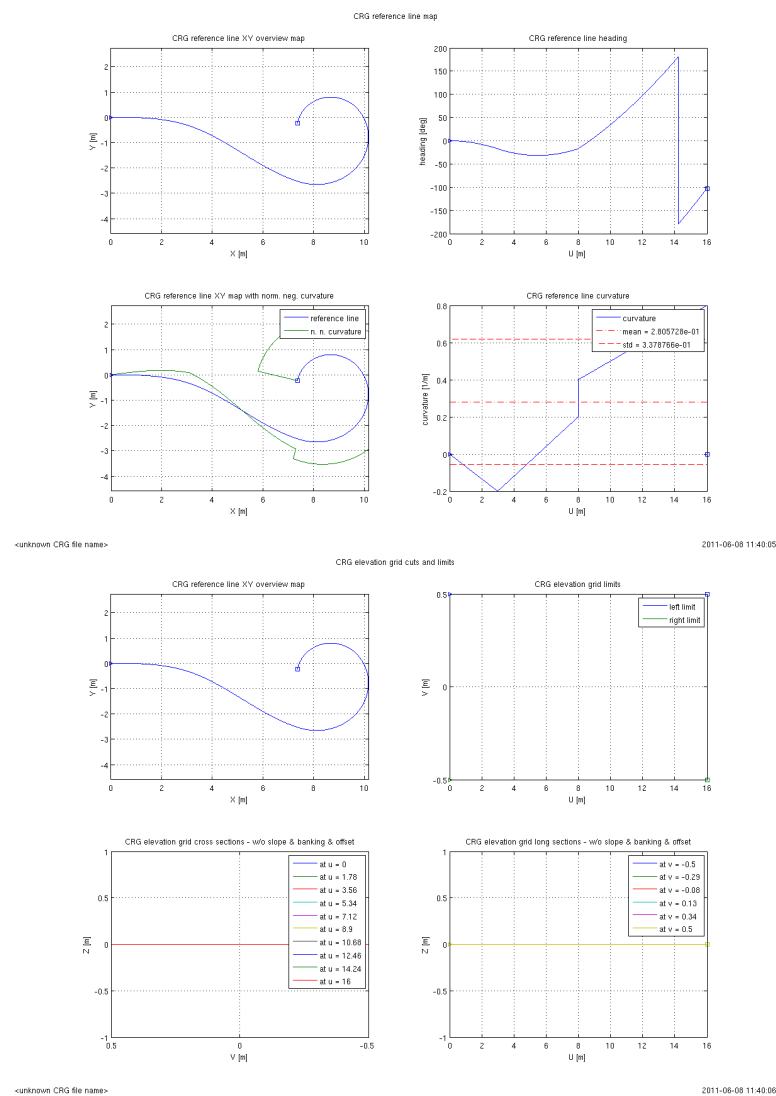
## Test4 ( different v )

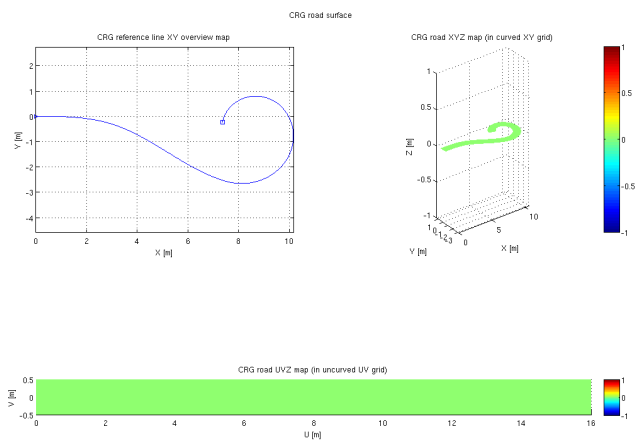
```
c = { 3 { 0 -0.2/3 } ... % klothoide
      ; 5 {-0.2 0.4/5 } ... % turning klothoide
      ; 8 { 0.4 0.4/8 } ... % circle
    };
```

```
dat1 = crg_gen_csb2crg0([], 16, 1, c);
```

```
data = crg_rerender( dat1, [], 0.5 );
```

```
crg_show(data);
```



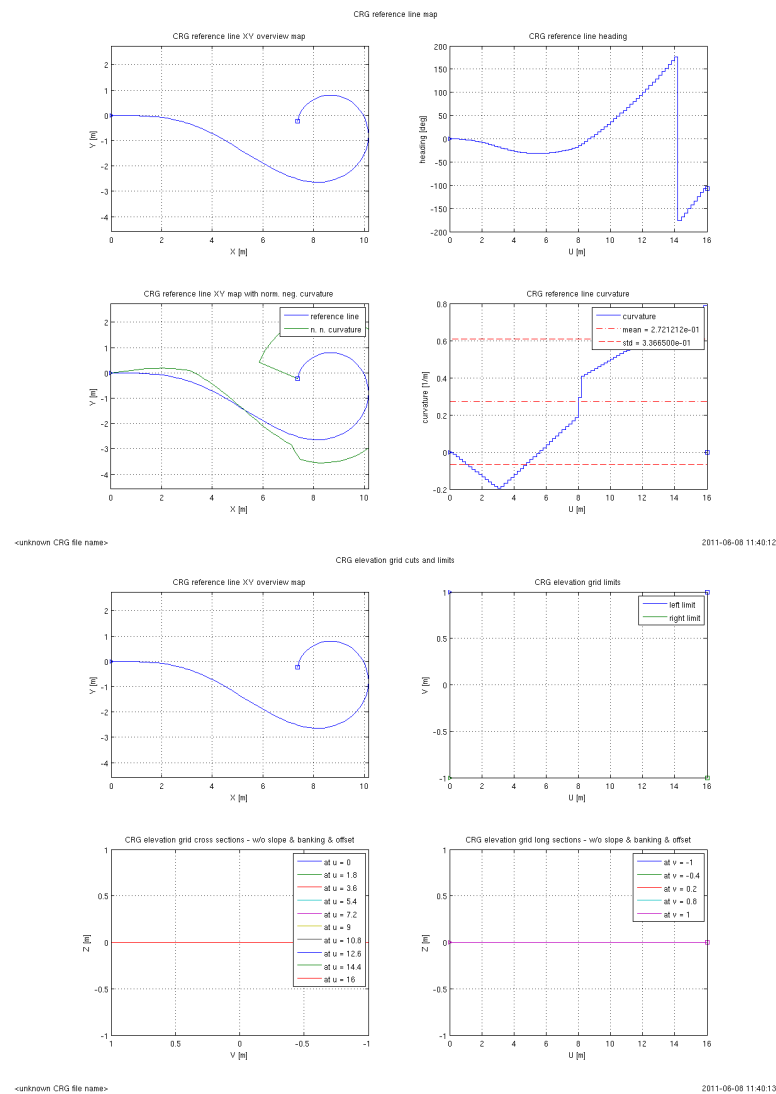


## Test5 ( interpolation method )

```
c = { 3 { 0 -0.2/3 } ... % klothoide
      ; 5 {-0.2 0.4/5 } ... % turning klothoide
      ; 8 { 0.4 0.4/8 } ... % circle
    };
```

```
dat1 = crg_gen_csb2crg0([], 16, 1, c);
data = crg_rerender( dat1, [0.2, 0.2] );
```

```
crg_show(data);
```



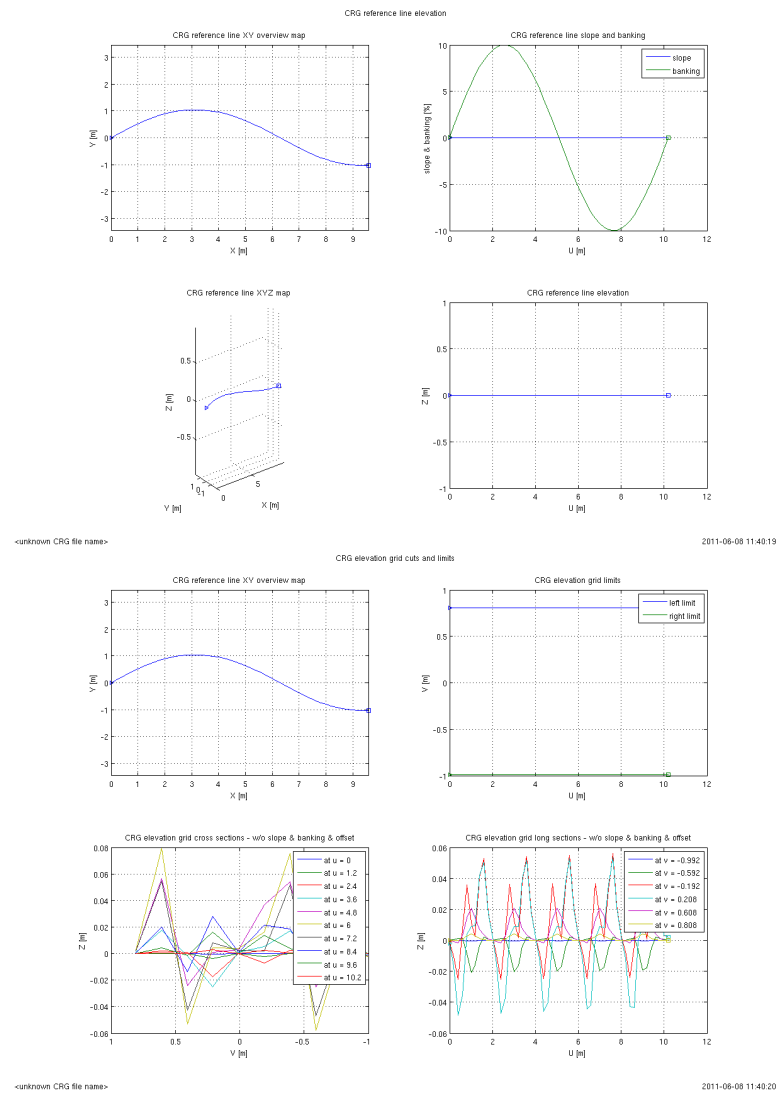


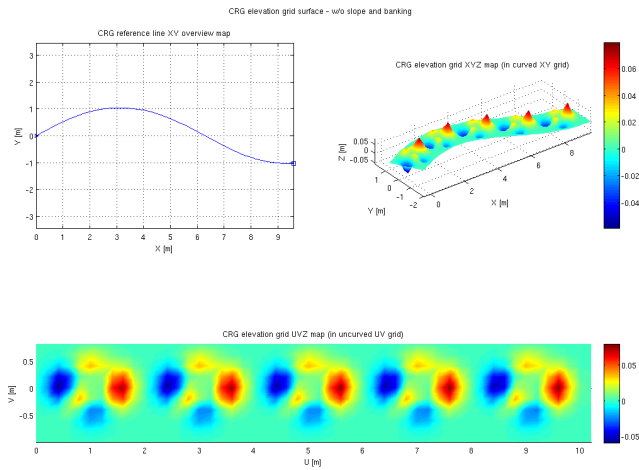
Test6 ( incl. z-values )

```
dat1 = crg_read('demo7.crg');
```

```
data = crg_rerender( dat1, [0.2, 0.2] );
```

```
crg_show(data);
```

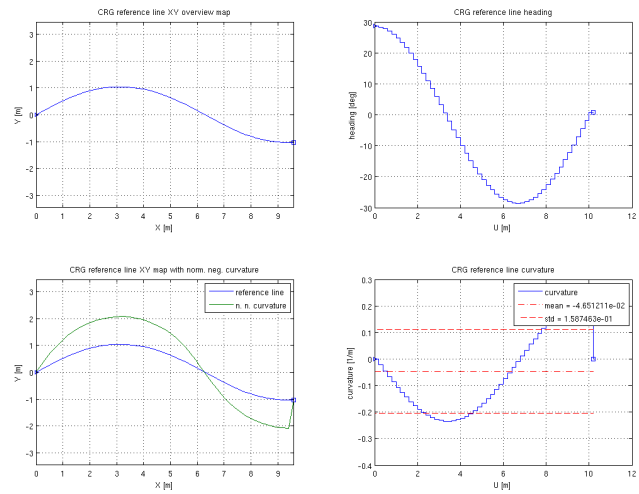




<unknown CRG file name>

CRG reference line map

2011-06-08 11:40:21



<unknown CRG file name>

2011-06-08 11:40:10





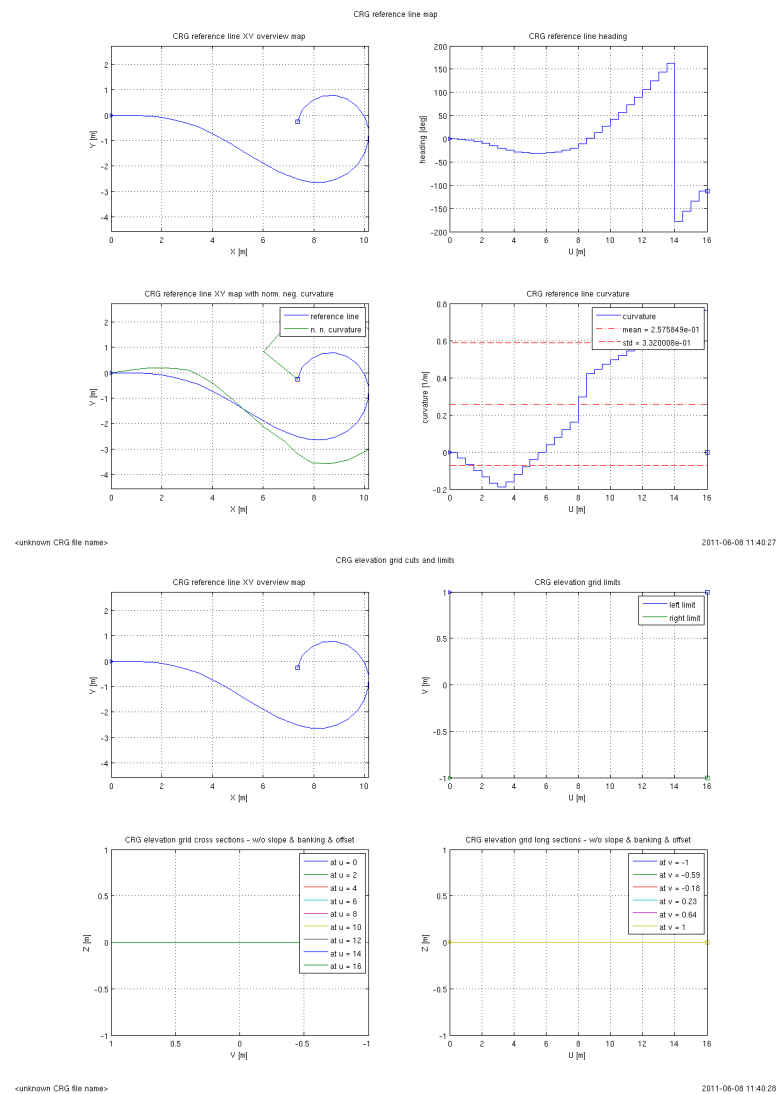
Test7 ( try uinc > 0.45 )

```
c = { 3 { 0 -0.2/3 } ... % klothoide
      ; 5 {-0.2 0.4/5 } ... % turning klothoide
      ; 8 { 0.4 0.4/8 } ... % circle
    };
```

```
dat1 = crg_gen_csb2crg0([], 16, 1, c);
```

```
data = crg_rerender( dat1, 0.5 );
```

```
crg_show(data);
```





Test8 ( real case: )

```
dat1 = crg_read('../crg-bin/country_road.crg');
```

```
data = crg_rerender(dat1, 0.4);  
crg_show(data);
```

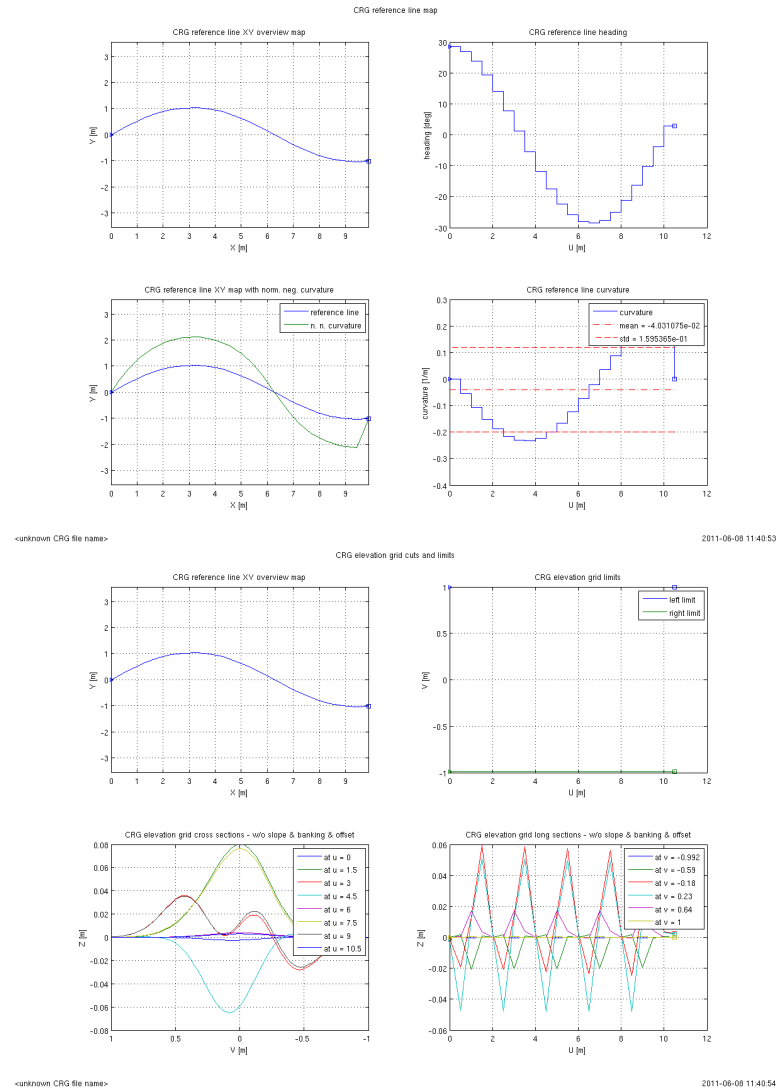
### Test9 ( no curvature )

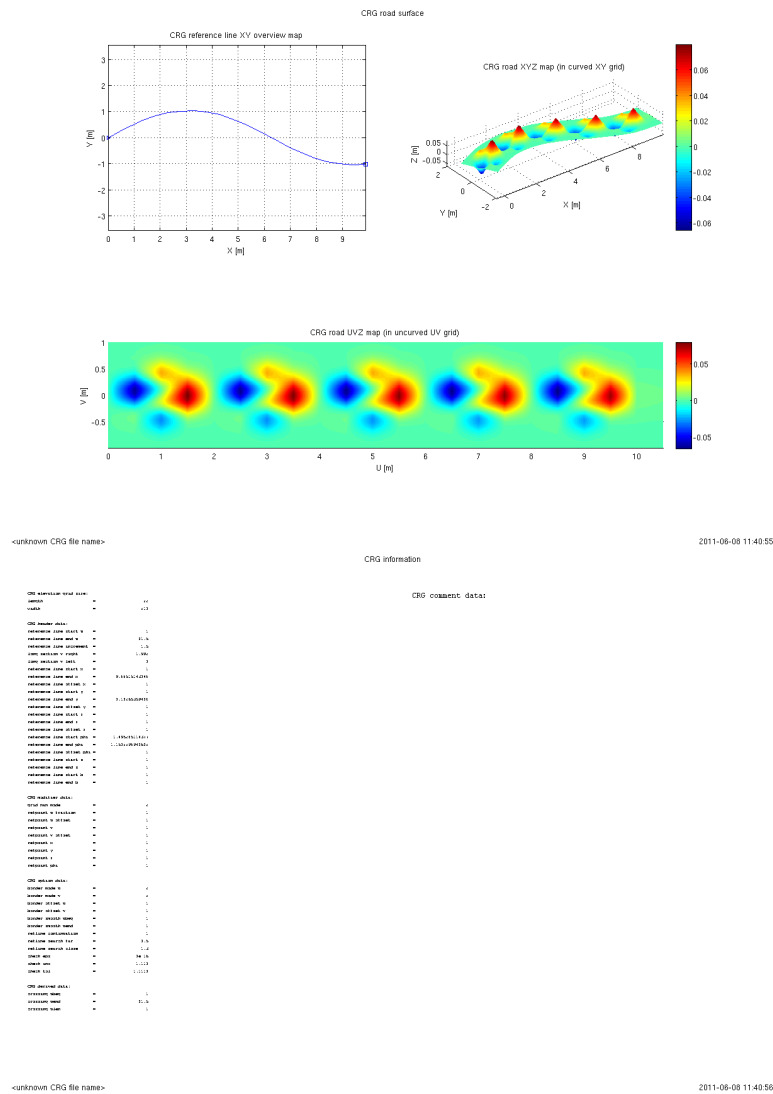
```
dat = crg_read('demo1.crg');  
data = crg_rerender(dat, 0.5);  
  
crg_show(data);
```

## Test10 ( curvature )

```
dat = crg_read('demo6.crg');
data = crg_rerender(dat, 0.5);
```

```
crg_show(data);
```

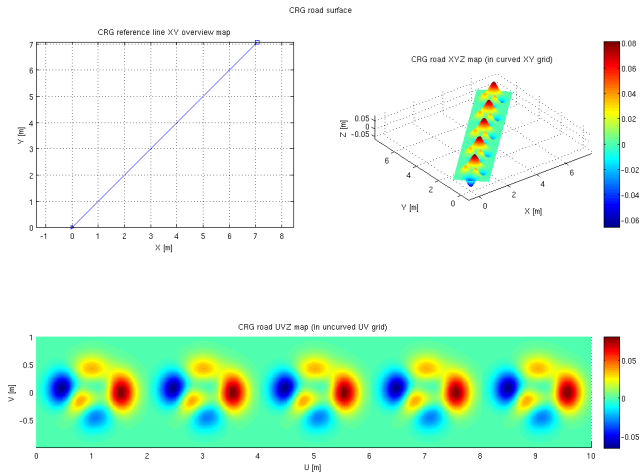




### Test11 ( constant curvature )

```
dat = crg_read('demo4.crg');
data = crg_rerender(dat, 0.05);
```

```
crg_show(data);
```



<unknown CRG file name>

2011-08-08 11:41:02

CRG information

CRG comment data:

[illegible]

<unknown CRG file name>

2011-08-08 11:41:06