

## Contents

Usage of OPTIONS	1
Test proceedings	2
Test 1.1 ( const space: BM_UV = NaN )	3
Test 1.2 ( const space, banking: BM_UV = NaN )	4
Test 1.3 ( const space, slope: BM_UV = NaN )	5
Test 1.4 ( variable space, banking, slope: BM_UV = NaN )	6
Test 2.1 ( const space: BM_UV = Set Zero )	7
Test 2.2 ( const space, banking: BM_UV = Set Zero )	8
Test 2.3 ( const space, slope: BM_UV = Set Zero )	9
Test 2.4 ( variable space, slope, banking: BM_UV = Set Zero )	10
Test 3.1 ( const space: BM_UV = Keep Last )	11
Test 3.2 ( const space, banking: BM_UV = Keep Last )	12
Test 3.3 ( const space, slope: BM_UV = Keep Last )	13
Test 3.4 ( variable space, slope, banking: BM_UV = Keep Last )	14
Test 4.1 ( const space: BM_UV = Repeat )	15
Test 4.2 ( const space, banking: BM_UV = Repeat )	16
Test 4.3 ( const space, slope: BM_UV = Repeat )	17
Test 4.4 ( variable space, slope banking: BM_UV = Repeat )	18
Test 5.1 ( const space: BM_UV = Reflect )	19
Test 5.2 ( const space, banking: BM_UV = Reflect )	20
Test 5.3 ( const space, slope: BM_UV = Reflect )	21
Test 5.4 ( variable space, banking: BM_UV = Reflect )	22
Test 6.1 ( const space, banking: smoothing )	23
Test 6.2 ( const space, slope: smoothing )	24

## Usage of OPTIONS

Test scripts to display results of option settings. 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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% you may not use this file except in compliance with the License.
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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_options.m 1 2011-06-08 11:22:00Z hhelmich $
```

## Test proceedings

- read crg-file
- set options
- display results

```
% DEFAULT SETTINGS
% clear enviroment
clear all;
close all;
% range
u = -1:0.01:11;
v = -2:0.01:2;
```

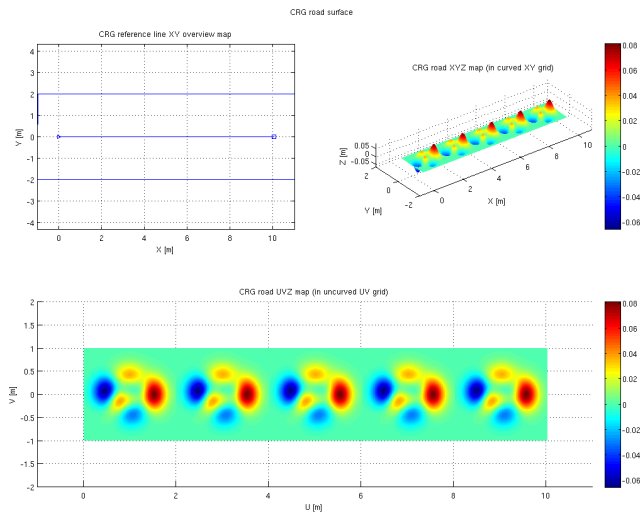
Test 1.1 ( const space: BM\_UV = NaN )

```
data = crg_read('demo1.crg');
```

```
data.opts.bdmu = 0;
```

```
data.opts.bdmv = 0;
```

```
crg_show_road_uv2surface(data, u, v);
```



demo1.crg

2011-06-08 11:22:14

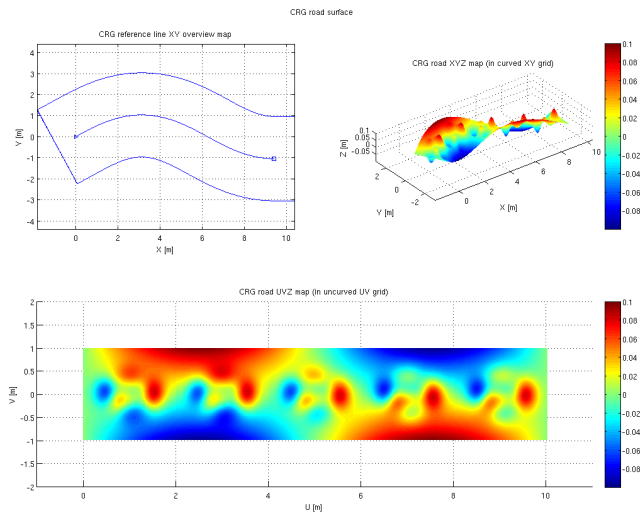
Test 1.2 ( const space, banking: BM\_UV = NaN )

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

```
data.opts.bdmu = 0;
```

```
data.opts.bdmv = 0;
```

```
crg_show_road_uv2surface(data, u, v);
```



demo7.crg

2011-06-08 11:22:19

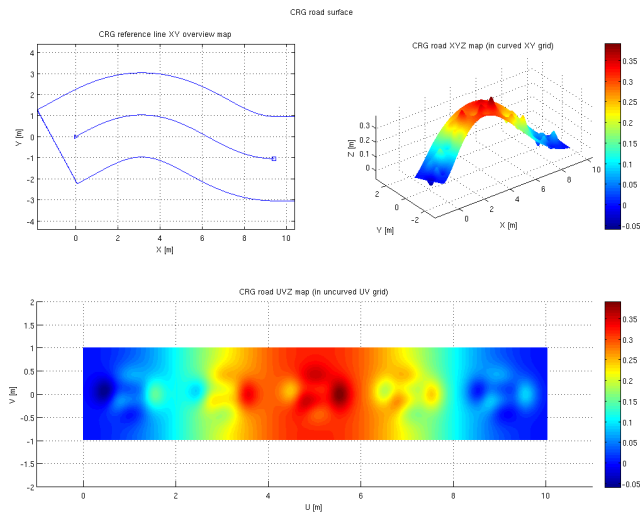
### Test 1.3 ( const space, slope: BM\_UV = NaN )

```
data = crg_read('demo9.crg');
```

```
data.opts.bdmu = 0;
```

```
data.opts.bdmv = 0;
```

```
crg_show_road_uv2surface(data, u, v);
```



demo9.crg

2011-06-08 11:22:48

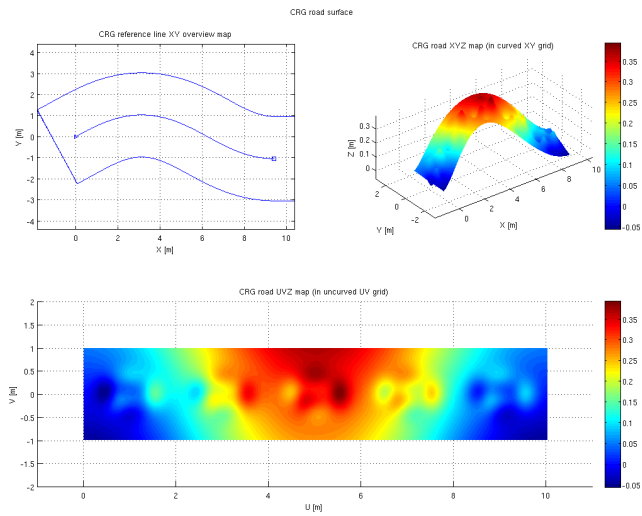
Test 1.4 ( variable space, banking, slope: BM\_UV = NaN  
)

```
data = crg_read('demo8.crg');
```

```
data.opts.bdmu = 0;
```

```
data.opts.bdmv = 0;
```

```
crg_show_road_uv2surface(data, u, v);
```



demo8.crg

2011-06-08 11:23:35

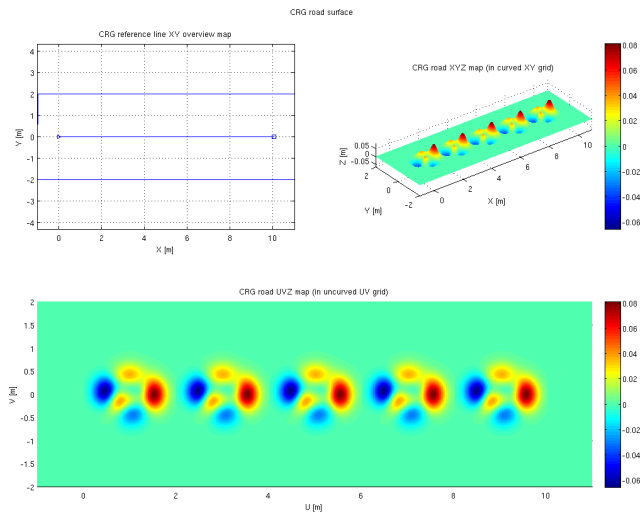
## Test 2.1 ( const space: BM\_UV = Set Zero )

```
data = crg_read('demo1.crg');
```

```
data.opts.bdmu = 1;
```

```
data.opts.bdmv = 1;
```

```
crg_show_road_uv2surface(data, u, v);
```



demo1.crg

2011-06-08 11:24:21



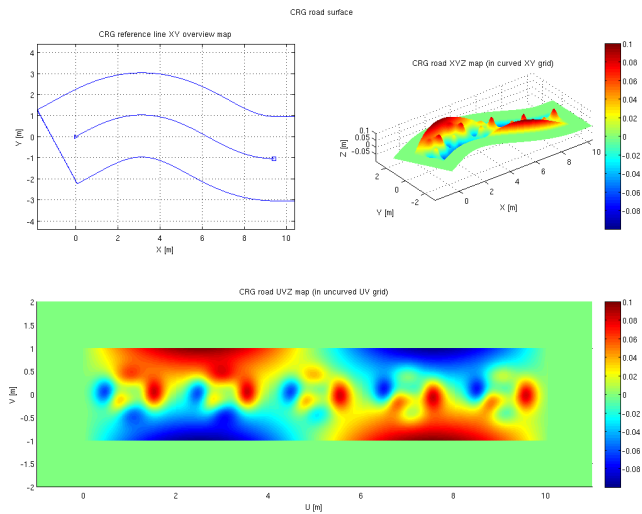
## Test 2.2 ( const space, banking: BM\_UV = Set Zero )

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

```
data.opts.bdmu = 1;
```

```
data.opts.bdmv = 1;
```

```
crg_show_road_uv2surface(data, u, v);
```



demo7.crg

2011-06-08 11:24:26

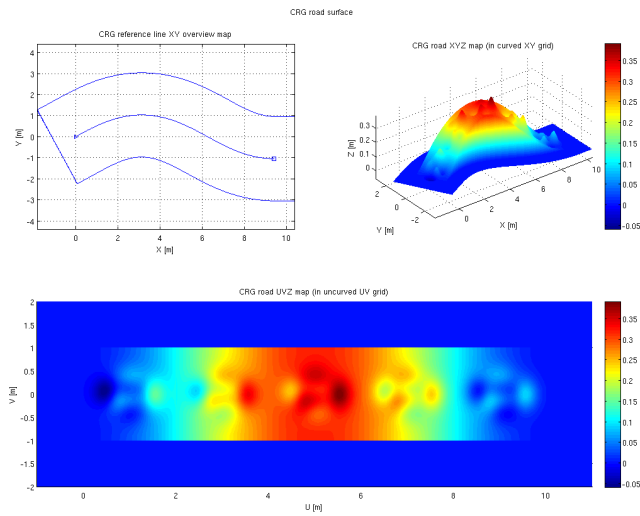
### Test 2.3 ( const space, slope: BM\_UV = Set Zero )

```
data = crg_read('demo9.crg');
```

```
data.opts.bdmu = 1;
```

```
data.opts.bdmv = 1;
```

```
crg_show_road_uv2surface(data, u, v);
```



demo9.crg

2011-06-08 11:24:56

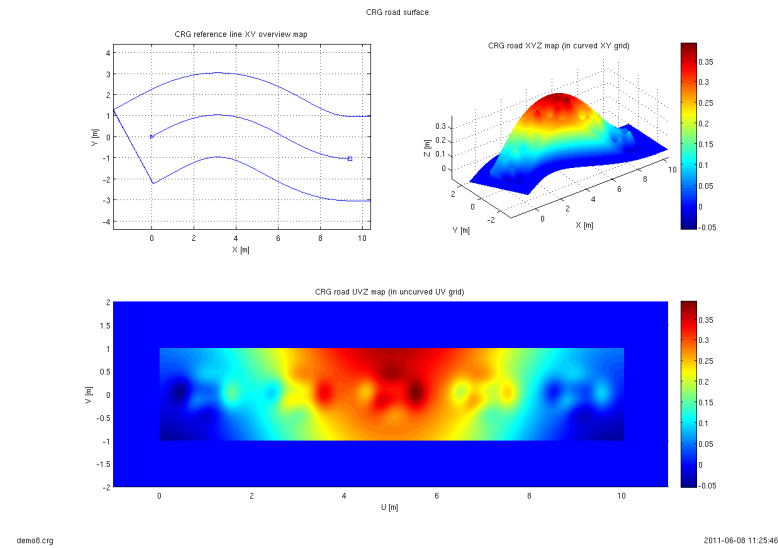
Test 2.4 ( variable space, slope, banking: BM\_UV = Set Zero )

```
data = crg_read('demo8.crg');
```

```
data.opts.bdmu = 1;
```

```
data.opts.bdmv = 1;
```

```
crg_show_road_uv2surface(data, u, v);
```



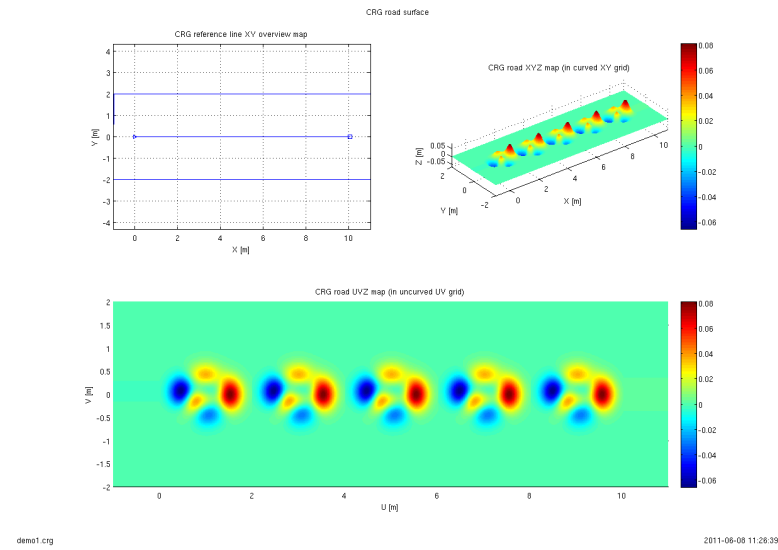
### Test 3.1 ( const space: BM\_UV = Keep Last )

```
data = crg_read('demo1.crg');
```

```
data.opts.bdmu = 2;
```

```
data.opts.bdmv = 2;
```

```
crg_show_road_uv2surface(data, u, v);
```



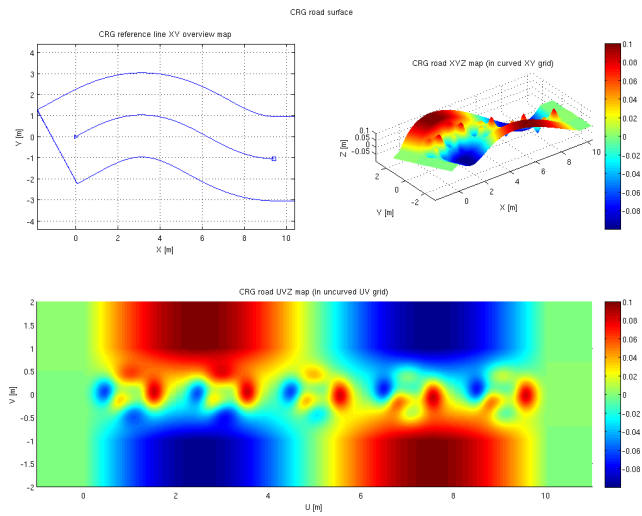
### Test 3.2 ( const space, banking: BM\_UV = Keep Last )

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

```
data.opts.bdmu = 2;
```

```
data.opts.bdmv = 2;
```

```
crg_show_road_uv2surface(data, u, v);
```



demo7.crg

2011-06-08 11:28:46

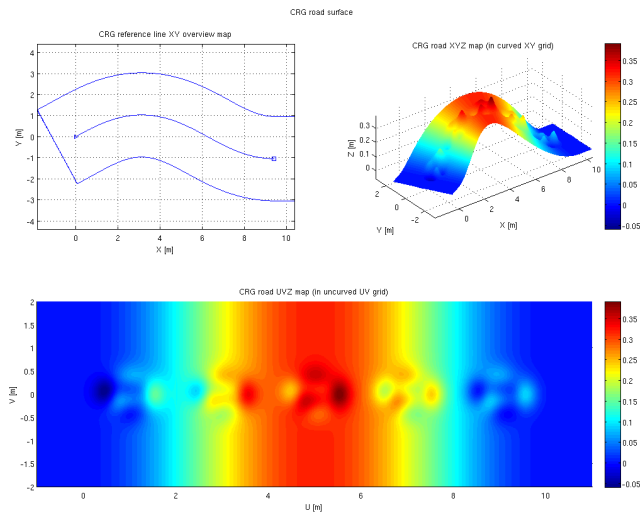
### Test 3.3 ( const space, slope: BM\_UV = Keep Last )

```
data = crg_read('demo9.crg');
```

```
data.opts.bdmu = 2;
```

```
data.opts.bdmv = 2;
```

```
crg_show_road_uv2surface(data, u, v);
```

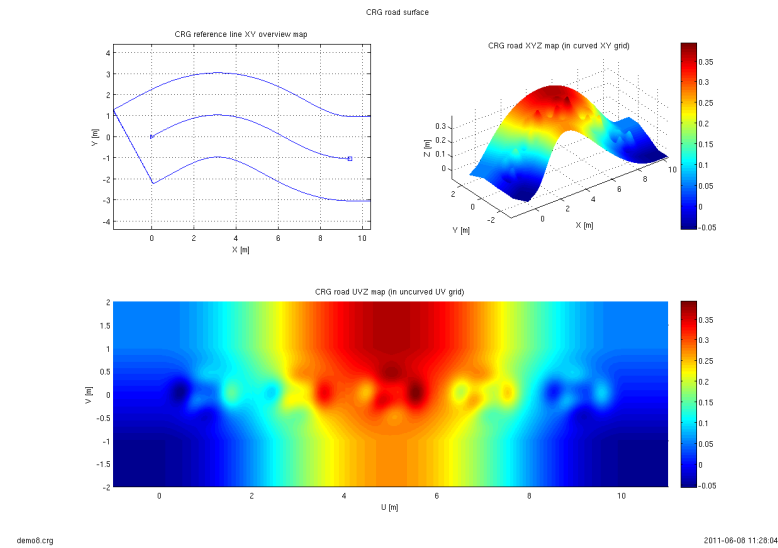


demo9.crg

2011-06-08 11:27:17

### Test 3.4 ( variable space, slope, banking: BM\_UV = Keep Last )

```
data = crg_read('demo8.crg');  
  
data.opts.bdmu = 2;  
data.opts.bdmv = 2;  
  
crg_show_road_uv2surface(data, u, v);
```



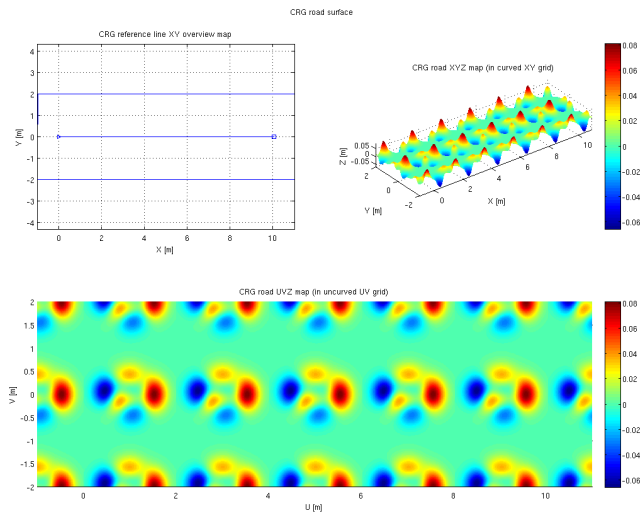
## Test 4.1 ( const space: BM\_UV = Repeat )

```
data = crg_read('demo1.crg');
```

```
data.opts.bdmu = 3;
```

```
data.opts.bdmv = 3;
```

```
crg_show_road_uv2surface(data, u, v);
```



demo1.crg

2011-06-08 11:29:51



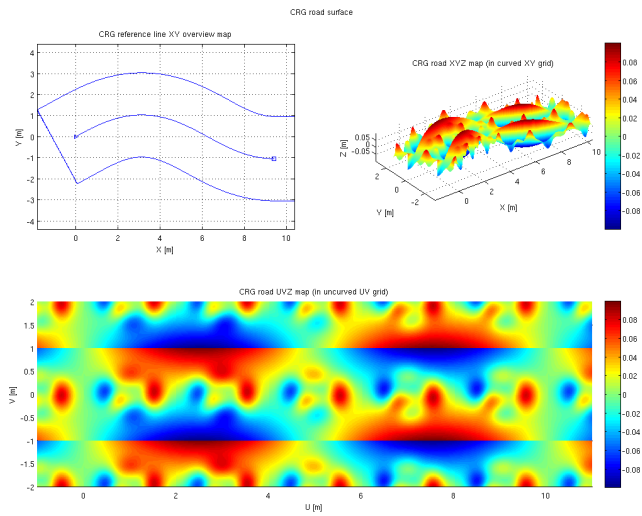
## Test 4.2 ( const space, banking: BM\_UV = Repeat )

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

```
data.opts.bdmu = 3;
```

```
data.opts.bdmv = 3;
```

```
crg_show_road_uv2surface(data, u, v);
```



demo7.crg

2011-06-08 11:29:56

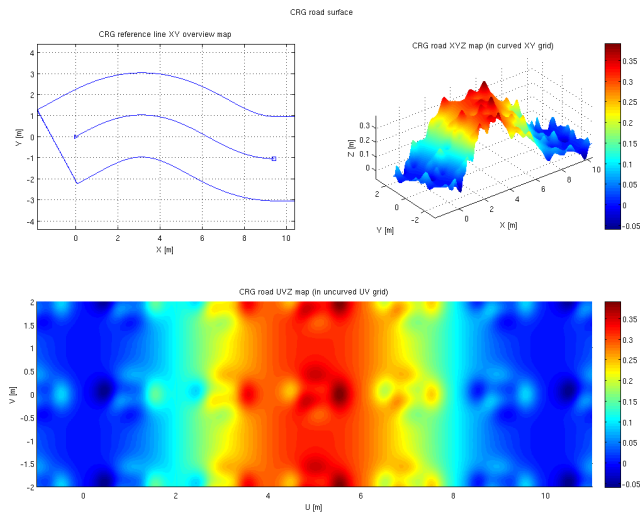
### Test 4.3 ( const space, slope: BM\_UV = Repeat )

```
data = crg_read('demo9.crg');
```

```
data.opts.bdmu = 3;
```

```
data.opts.bdmv = 3;
```

```
crg_show_road_uv2surface(data, u, v);
```



demo9.crg

2011-06-08 11:29:22

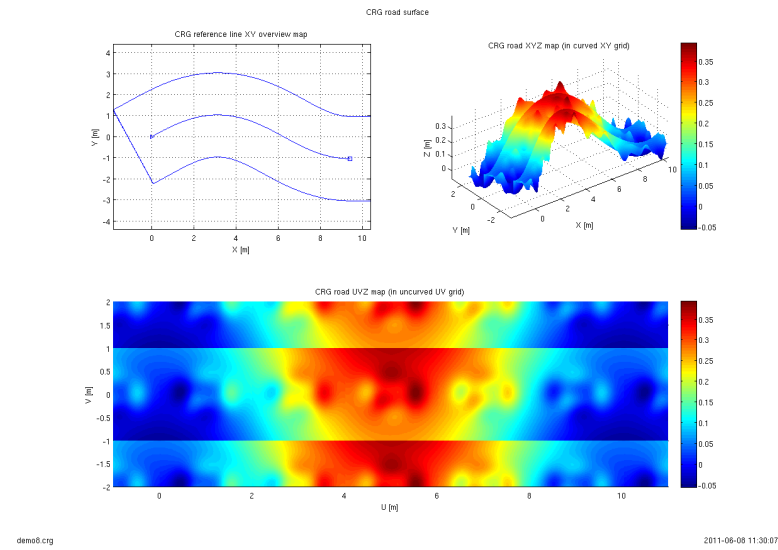
Test 4.4 ( variable space, slope banking: BM\_UV = Repeat  
)

```
data = crg_read('demo8.crg');
```

```
data.opts.bdmu = 3;
```

```
data.opts.bdmv = 3;
```

```
crg_show_road_uv2surface(data, u, v);
```



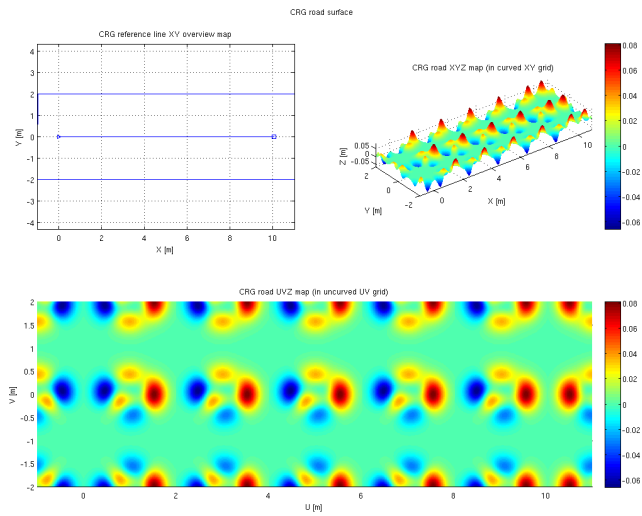
## Test 5.1 ( const space: BM\_UV = Reflect )

```
data = crg_read('demo1.crg');
```

```
data.opts.bdmu = 4;
```

```
data.opts.bdmv = 4;
```

```
crg_show_road_uv2surface(data, u, v);
```



demo1.crg

2011-06-08 11:30:53

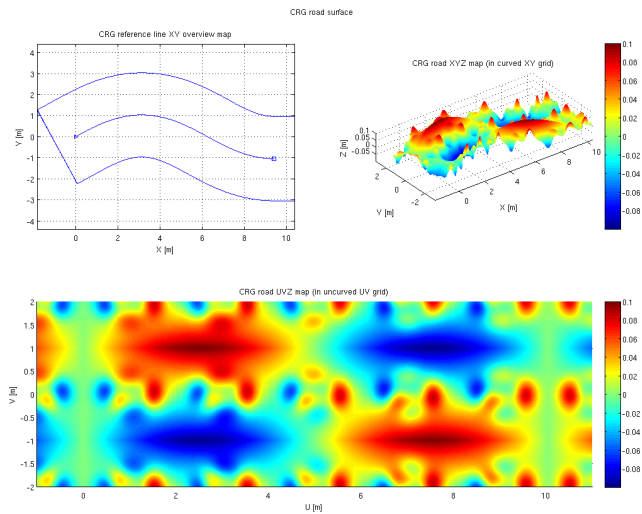
## Test 5.2 ( const space, banking: BM\_UV = Reflect )

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

```
data.opts.bdmu = 4;
```

```
data.opts.bdmv = 4;
```

```
crg_show_road_uv2surface(data, u, v);
```



demo7.crg

2011-06-08 11:39:58

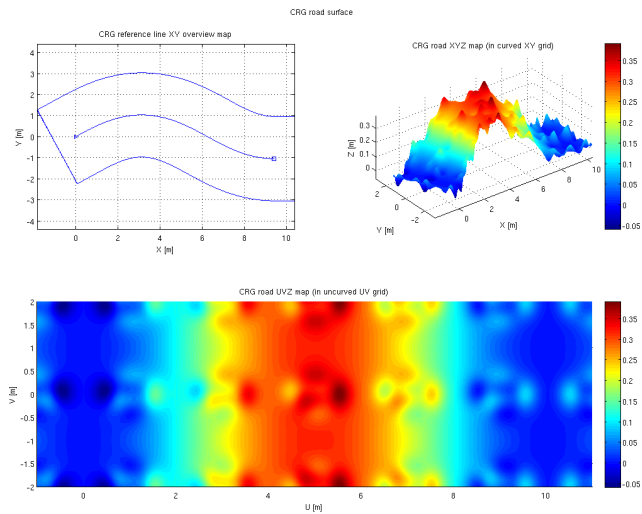
### Test 5.3 ( const space, slope: BM\_UV = Reflect )

```
data = crg_read('demo9.crg');
```

```
data.opts.bdmu = 4;
```

```
data.opts.bdmv = 4;
```

```
crg_show_road_uv2surface(data, u, v);
```



demo9.crg

2011-06-08 11:31:24

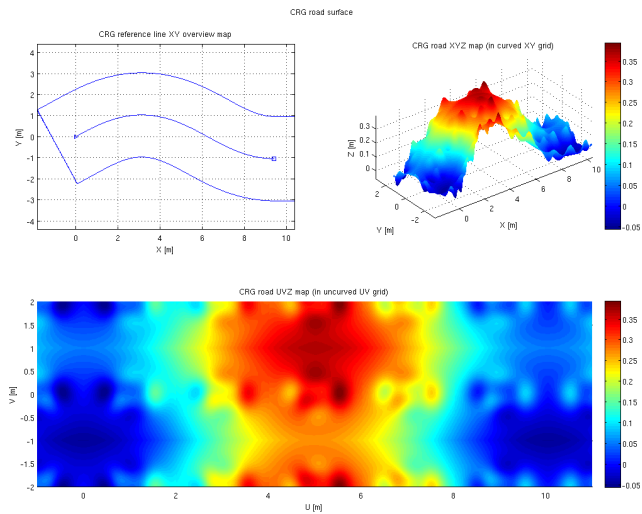
## Test 5.4 ( variable space, banking: BM\_UV = Reflect )

```
data = crg_read('demo8.crg');
```

```
data.opts.bdmu = 4;
```

```
data.opts.bdmv = 4;
```

```
crg_show_road_uv2surface(data, u, v);
```



demo8.crg

2011-06-08 11:32:10

## Test 6.1 ( const space, banking: smoothing )

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

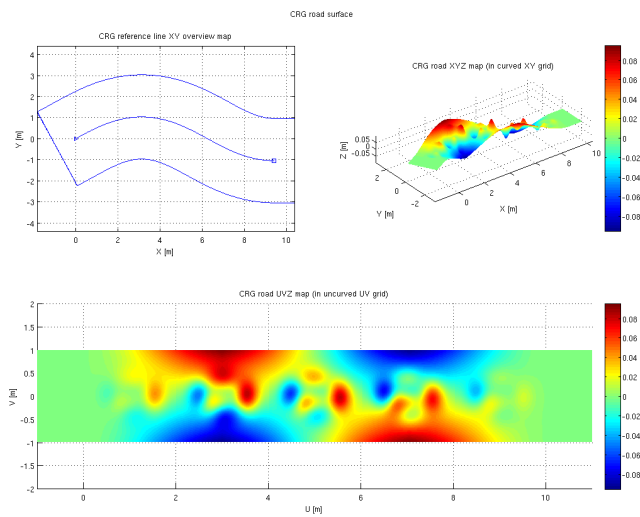
```
data.opts.bdmu = 1;
```

```
data.opts.bdmv = 0;
```

```
data.opts.bdss = 3;
```

```
data.opts.bdse = 3;
```

```
crg_show_road_uv2surface(data, u, v);
```



demo7.crg

2011-06-08 11:32:56



## Test 6.2 ( const space, slope: smoothing )

```
data = crg_read('demo9.crg');
```

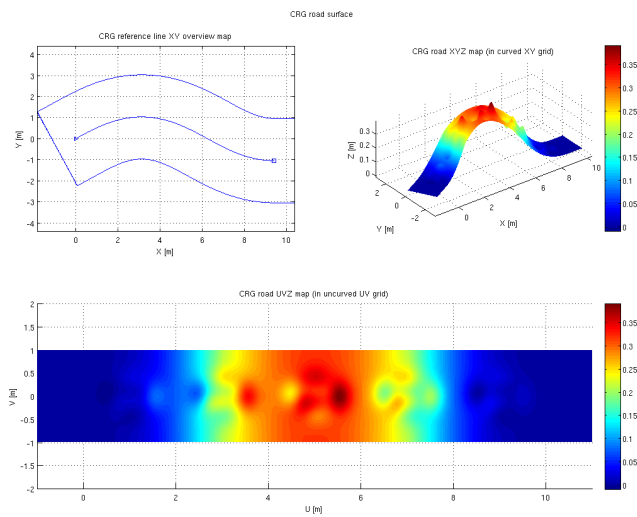
```
data.opts.bdmu = 1;
```

```
data.opts.bdmv = 0;
```

```
data.opts.bdss = 3;
```

```
data.opts.bdse = 3;
```

```
crg_show_road_uv2surface(data, u, v);
```



demo9.crg

2011-06-08 11:33:23

### Test 6.3 ( variable space, banking, slope: smoothing )

```
data = crg_read('demo8.crg');
```

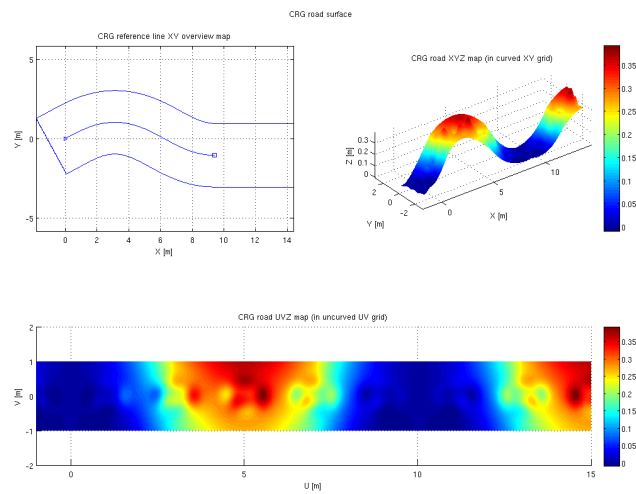
```
data.opts.bdmu = 4;
```

```
data.opts.bdmv = 0;
```

```
data.opts.bdss = 3;
```

```
data.opts.bdse = 3;
```

```
crg_show_road_uv2surface(data, -1:0.01:15, v);
```



demo8.crg

2011-06-08 11:34:10