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Usage of CRG_LIMITER

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

NOTE One u-increment is used to adjust both crg-files into the right direction. Hence make sure you have a overlap by one (see examples).

```
% 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_limiter.m 1 2011-06-08 10:50:00Z hhelmich $
```

Test proceedings

Test 1-4

- load demo crg-file
- set limitations
- display result

Test 5-6

- load real dataset
- set limitations
- display only subset (if necessary)

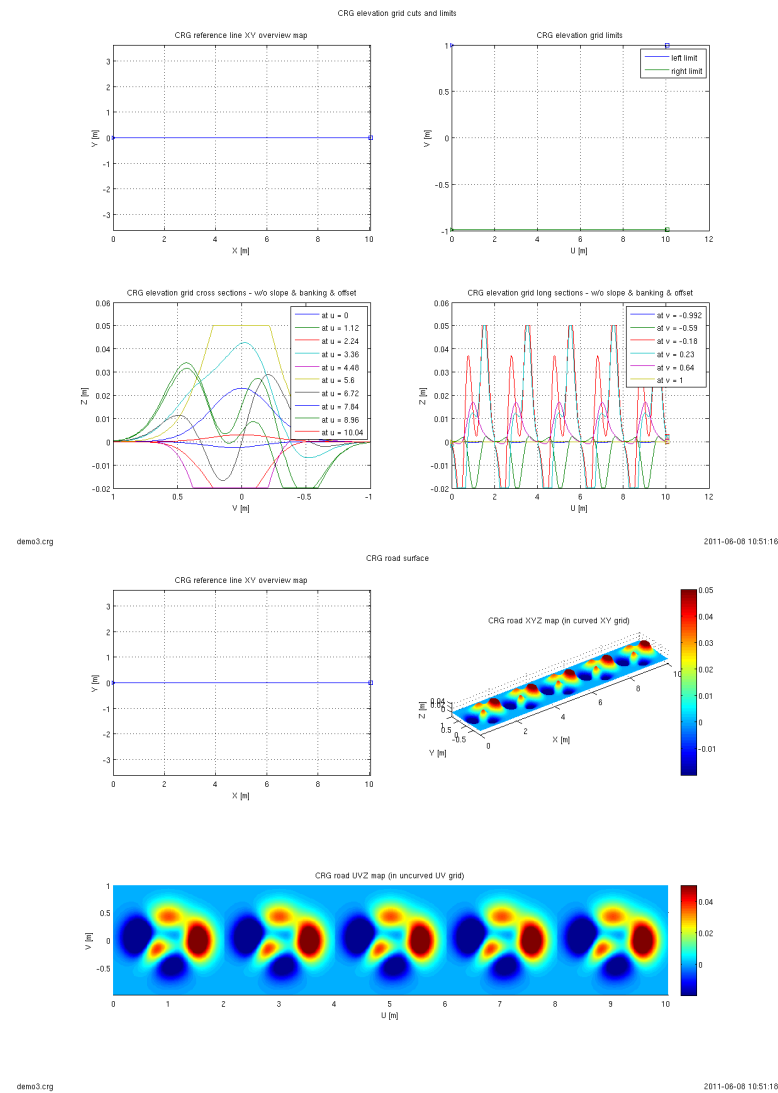
```
% DEFAULT SETTINGS
% clear enviroment
clear all;
close all;
```

Test1 (min/max limitations)

```
dat = crg_read('demo3.crg');
```

```
data = crg_limiter(dat, [-0.02, 0.05] );
```

```
crg_show(data);
```



CRC information

[illegible]

```
CRG comment data:

CRG defined by z matrix
... and unevenly spaced v vector
```

demo3.crg

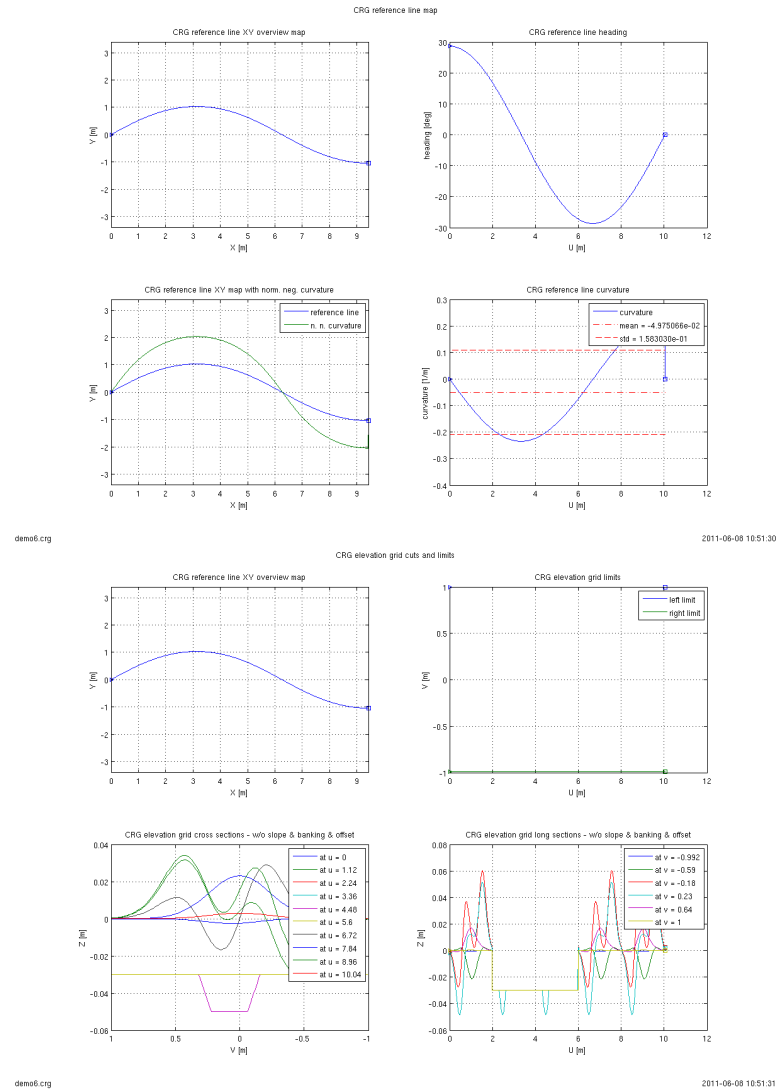
2011-08-08 10:51:25

Test2 (incl. u start/stop)

```
dat = crg_read('demo6.crg');
```

```
data = crg_limiter(dat, [-0.05, -0.03], [200 600]);
```

```
crg_show(data);
```

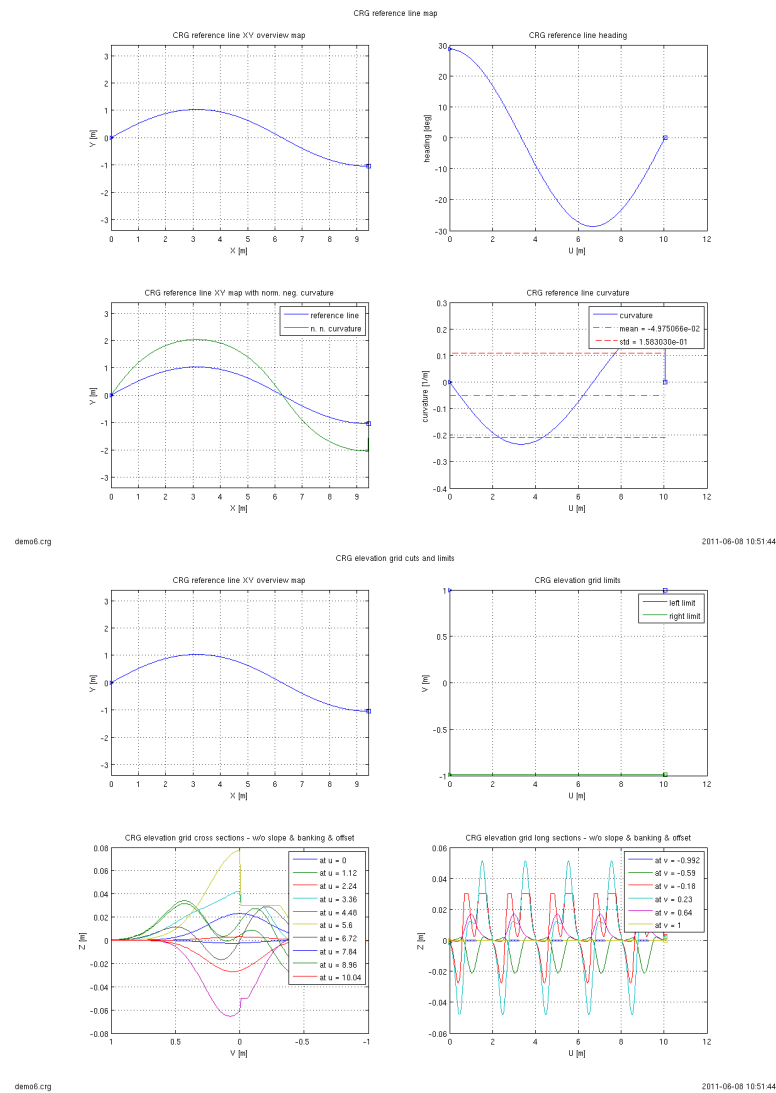


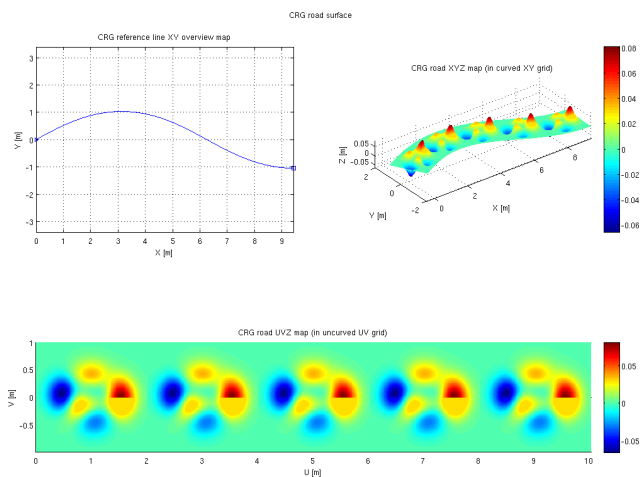
Test3 (incl. v start/stop)

```
dat = crg_read('demo6.crg');
```

```
data = crg_limiter(dat, [-0.05 0.03], [], [50 100]);
```

```
crg_show(data);
```





demo8.crg

CAG information

2011-08-08 10:51:45

NAME	DATE	TIME	LOCATION	REMARKS
0000	1960	00	00	00
0001	1960	01	01	01
0002	1960	02	02	02
0003	1960	03	03	03
0004	1960	04	04	04
0005	1960	05	05	05
0006	1960	06	06	06
0007	1960	07	07	07
0008	1960	08	08	08
0009	1960	09	09	09
0010	1960	10	10	10
0011	1960	11	11	11
0012	1960	12	12	12
0013	1960	13	13	13
0014	1960	14	14	14
0015	1960	15	15	15
0016	1960	16	16	16
0017	1960	17	17	17
0018	1960	18	18	18
0019	1960	19	19	19
0020	1960	20	20	20
0021	1960	21	21	21
0022	1960	22	22	22
0023	1960	23	23	23
0024	1960	24	24	24
0025	1960	25	25	25
0026	1960	26	26	26
0027	1960	27	27	27
0028	1960	28	28	28
0029	1960	29	29	29
0030	1960	30	30	30
0031	1960	31	31	31
0032	1960	32	32	32
0033	1960	33	33	33
0034	1960	34	34	34
0035	1960	35	35	35
0036	1960	36	36	36
0037	1960	37	37	37
0038	1960	38	38	38
0039	1960	39	39	39
0040	1960	40	40	40
0041	1960	41	41	41
0042	1960	42	42	42
0043	1960	43	43	43
0044	1960	44	44	44
0045	1960	45	45	45
0046	1960	46	46	46
0047	1960	47	47	47
0048	1960	48	48	48
0049	1960	49	49	49
0050	1960	50	50	50
0051	1960	51	51	51
0052	1960	52	52	52
0053	1960	53	53	53
0054	1960	54	54	54
0055	1960	55	55	55
0056	1960	56	56	56
0057	1960	57	57	57
0058	1960	58	58	58
0059	1960	59	59	59
0060	1960	60	60	60
0061	1960	61	61	61
0062	1960	62	62	62
0063	1960	63	63	63
0064	1960	64	64	64
0065	1960	65	65	65
0066	1960	66	66	66
0067	1960	67	67	67
0068	1960	68	68	68
0069	1960	69	69	69
0070	1960	70	70	70
0071	1960	71	71	71
0072	1960	72	72	72
0073	1960	73	73	73
0074	1960	74	74	74
0075	1960	75	75	75
0076	1960	76	76	76
0077	1960	77	77	77
0078	1960	78	78	78
00				

```
CRG comment data:

CRG defined by z matrix
... and unevenly spaced v vector
... with curved reference line
```

demo8.crg

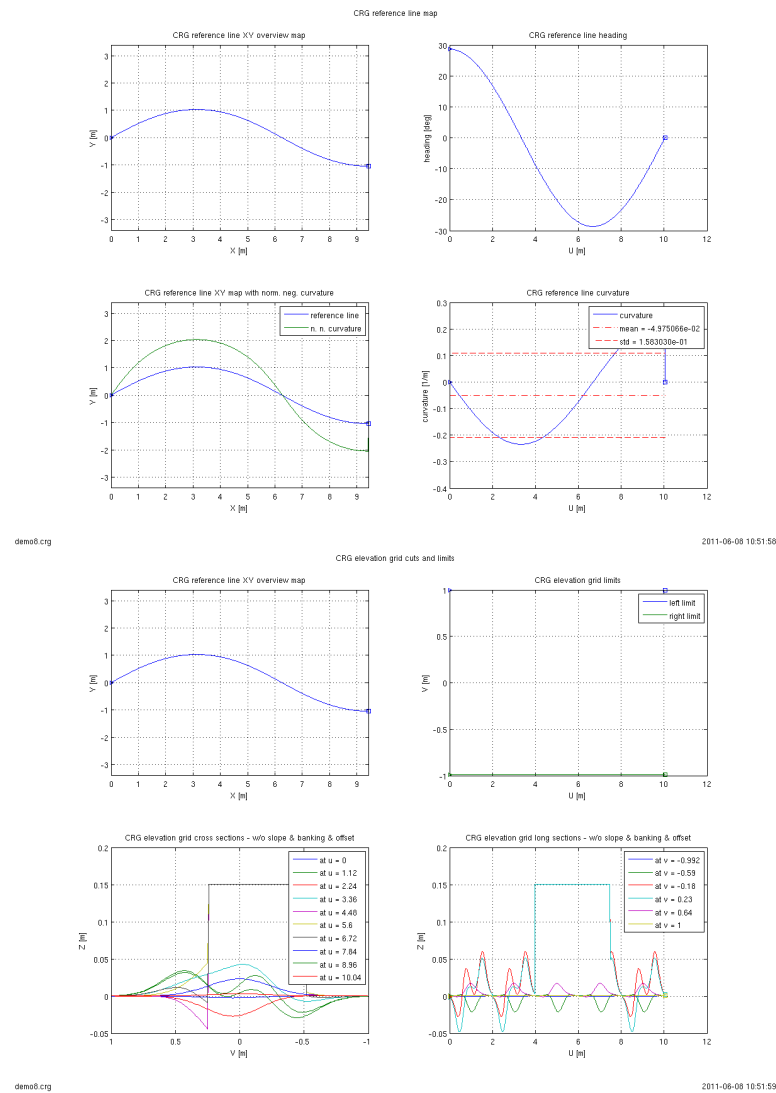
2011-08-08 10:51:52

Test4 (incl. u/v start/stop)

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

```
data = crg_limiter(dat, 0.15, [400 750], [50 125]);
```

```
crg_show(data);
```

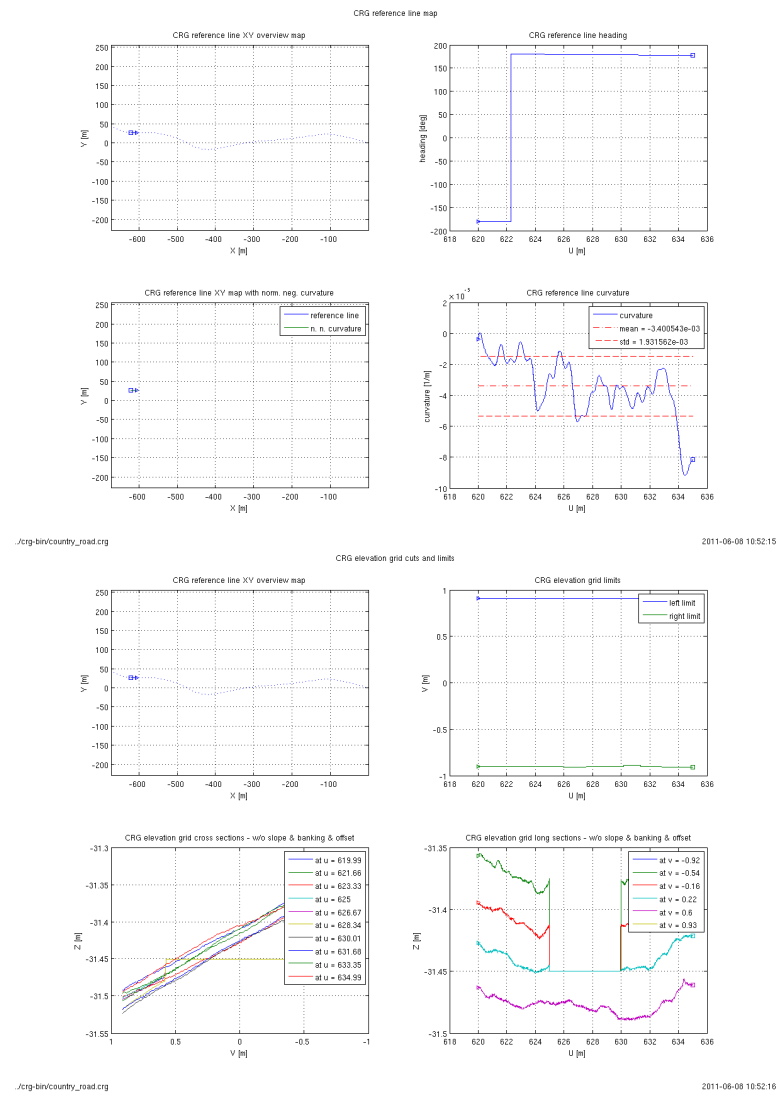


Test5 (real dataset incl. u/v start/stop)

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

```
data = crg_limiter(dat, -31.45, [62500 63000], [25 150]);
```

```
crg_show(data, [62000 63500]);
```



Test6 (real dataset incl. u/v start/stop)

```
dat = crg_read('../crg-bin/belgian_block.crg');

data = crg_limiter(dat, [-10 2.13], [600 800], 150);

crg_show(data);
```

