**Program course Remote Sensing (GRS-20306) Oct/Dec 2016**

All mornings week 9-14, starting at 8:30

Start: 31 October 2016 at 8:30, room C0093, GAIA, Building 101, Droevendaalsesteeg 3, Wageningen

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|  | **Date 2016** | **Subject** | **Lecturer** | **Room** | **Book Funda-mentals RS** | **Exercise** |
| **Remote sensing - an introduction** | | | | | | |
| **1** | **31 Oct.** | [Introduction Remote Sensing](http://scomp5063.wur.nl/courses/grs20306/course/Schedule/Introduction%202012.pdf) | Clevers Bartholomeus | C0093  PC95/96 | Ch. 1 and §2.1-2.5 | 1 |
| **Technology and sensors** | | | | | | |
| **2** | **1 Nov.** | [Optical remote sensing](http://scomp5063.wur.nl/courses/grs20306/course/Schedule/Optical%20RS%202012.pdf) | Clevers Bartholomeus | C0093  PC95/96 | §3.1, 3.2, 3.3, 3.5 | 2 |
| **3** | **2 Nov.** | [Microwave remote sensing](http://scomp5063.wur.nl/courses/grs20306/course/Schedule/Microwave%20RS%202012.pdf) | Clevers Bartholomeus | C0093  PC95/96 | §2.7, 3.4 | 2 |
| **4** | **3 Nov.** | [Accessibility of Earth Observation data](http://scomp5063.wur.nl/courses/grs20306/course/Schedule/Accessibility%20of%20EO%20data%20RS%202012.pdf) | Kooistra Bartholomeus | C0093  PC95/96 | Ch. 4 | 3 |
| **5** | **4 Nov.** | Selfstudy  Finish previous exercises |  | PC95/96 |  |  |
| **Preprocessing of remote sensing data** | | | | | | |
| **6** | **7 Nov.** | [Geometric correction](http://scomp5063.wur.nl/courses/grs20306/course/Schedule/Geometric%20correction%20RS%202012.pdf) | Clevers Bartholomeus | C0093  PC95/96 | §6.6 | 4 |
| **7** | **8 Nov.** | [Atmospheric correction](http://scomp5063.wur.nl/courses/grs20306/course/Schedule/Atmospheric%20correction%20RS%202012.pdf) I | Clevers Bartholomeus | C0093  PC95/96 | Study exercise reader, §2.8 | 5 |
| **8** | **9 Nov.** | Atmospheric correction II | Bartholomeus | PC95/96 |  | 5 |
| **9** | **10 Nov.** | [Quality assessment](http://scomp5063.wur.nl/courses/grs20306/course/Schedule/Quality%20assessment%202012.pdf) | Kooistra Bartholomeus | C0093  PC95/96 | Study exercise reader | 6 |
| **10** | **11 Nov.** | Selfstudy  Finish previous exercises |  | PC95/96 |  |  |
| **Image analysis** | | | | | | |
| **11** | **14 Nov.** | [Digital filters](http://scomp5063.wur.nl/courses/grs20306/course/Schedule/Digital%20filters%20RS%202012.pdf) | Clevers Bartholomeus | C0093  PC95/96 | §6.5.4 | 7 |
| **12** | **15 Nov.** | [Principal Component Analysis](http://scomp5063.wur.nl/courses/grs20306/course/Schedule/PCA%20RS%202012.pdf) I | Clevers Bartholomeus | C0093  PC95/96 | §7.1.2 | 8 |
| **13** | **16 Nov.** | Principal Component Analysis II | Bartholomeus | PC95/96 |  | 8 |
| **14** | **17 Nov.** | [Image Classification](http://scomp5063.wur.nl/courses/grs20306/course/Schedule/Classification%20RS%202012.pdf) | Clevers Bartholomeus | C0093  PC95/96 | §7.2, 8.7 | 9 |
| **15** | **18 Nov.** | Selfstudy  Finish previous exercises |  | PC95/96 |  |  |
|  | | | | | | |
| **16** | **21 Nov.** | [Object-based classification](http://scomp5063.wur.nl/courses/grs20306/course/Schedule/Object-based%20classification%202014.pdf)  Image classification | Clevers Bartholomeus | C0093  PC95/96 |  | 9 |
| **17** | **22 Nov.** | [Imaging Spectroscopy 1](http://scomp5063.wur.nl/courses/grs20306/course/Schedule/Imaging%20Spectroscopy%20part%201%202012.pdf) | Kooistra Bartholomeus | C0093  PC95/96 | §3.5.12, 7.1.4, 7.2.3.7 | 10 |
| **18** | **23 Nov.** | [Imaging Spectroscopy 2](http://scomp5063.wur.nl/courses/grs20306/course/Schedule/Imaging%20Spectroscopy%20part%202%202012.pdf) | Kooistra Bartholomeus | PC95/96 |  | 10 |
| **19** | **24 Nov.** | [Interpretation in radar remote sensing](http://scomp5063.wur.nl/courses/grs20306/course/Schedule/Interpretation%20radar%20RS%202012.pdf) | Clevers Bartholomeus | C0093  PC95/96 | §2.7.2, 2.7.3 | 11 |
| **20** | **25 Nov.** | Selfstudy  Finish previous exercises |  | PC95/96 |  |  |
| **Parameter estimation - quantitative RS** | | | | | | |
| **21** | **28 Nov.** | [Statistical based approaches and vegetation indices](http://scomp5063.wur.nl/courses/grs20306/course/Schedule/Vegetation%20indices%20RS%202012.pdf) | Clevers Bartholomeus | C0093  PC95/96 | §2.5, 7.1.3 | 12 |
| **22** | **29 Nov.** | [Physical based approaches](http://scomp5063.wur.nl/courses/grs20306/course/Schedule/Physical%20models%20RS%202012.pdf) | Clevers Bartholomeus | C0093  PC95/96 | Study exercise reader | 13 |
| **Applications** | | | | | | |
| **23** | **30 Nov.** | [Change detection and time series analysis](http://scomp5063.wur.nl/courses/grs20306/course/Schedule/Change%20detection%202012.pdf) | Herold  Bartholomeus | C0093  PC95/96 | §7.3 | 14 |
| **24** | **1 Dec.** | [Soil reflectance](http://scomp5063.wur.nl/courses/grs20306/course/Schedule/RS%20for%20soil%20science%202012.pdf) | Bartholomeus | C0093  PC95/96 | Study exercise reader | 15 |
| **25** | **2 Dec.** | Selfstudy  Finish previous exercises |  | PC95/96 |  |  |
|  | | | | | | |
| **26** | **5 Dec.** | [Thermography and albedo](http://scomp5063.wur.nl/courses/grs20306/course/Schedule/Thermography%202012.pdf) | De Wit Bartholomeus | C0093  PC95/96 | §2.6 | 16 |
| **27** | **6 Dec.** | [Energy & water balance](http://scomp5063.wur.nl/courses/grs20306/course/Schedule/Energy%20balance%202012.pdf) | Roerink Bartholomeus | C0093  PC95/96 | §2.6 | 17 |
| **28** | **7 Dec.** | Guest lecture (8:30)  Guest lecture (10:30) |  | C0093 |  |  |
| **29** | **8 Dec.** | [Earth system science and remote sensing](http://scomp5063.wur.nl/courses/grs20306/course/Schedule/Earth%20system%20science%20RS%202012.pdf) | Clevers | C0093  PC95/96 |  |  |
| **30** | **9 Dec.** | Selfstudy  Finish previous exercises |  | PC95/96 |  |  |
|  | | | | | | |
|  | **21 Dec.** | Final exam, 08:30 – 11:30 | Clevers | C0003 |  |  |

PC95 = PC0095: 2nd floor, GAIA, Building 101, Droevendaalsesteeg 3

PC96 = PC0096: 2nd floor, GAIA, Building 101, Droevendaalsesteeg 3

C0093 = 2nd floor, GAIA, Building 101, Droevendaalsesteeg 3

C0003 = Sporthal De Bongerd, Bornsesteeg 2

Information: Jan Clevers Tel: 0317 – 481802 Email: Jan.Clevers@wur.nl

See also: <http://www.geo-informatie.nl/courses/grs20306>