**Satellite Remote Sensing Course Syllabus, Summer 2023**

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|  | **Monday June 5:** |  |
|  | Morning 1. | Personal Introductions – Overview of Course Content – Some Motivation for Remote Sensing… |
|  | Morning 2. |  |
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|  | Afternoon 1. | Working with UNIX and Python (short *lecture*) and then setting up computer user accounts and begin working with Python |
|  | Afternoon 2. | Continue with Python |
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|  | **Tuesday June 6:** |  |
|  | Morning 1. | Fundamentals of optics (*lecture*) |
|  | Morning 2. | Continue Python (*computer work*) |
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|  | Afternoon 1. | Continue Python (*computer work*) |
| Afternoon 2. | Continue Python (*computer work*) |
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|  | **Wednesday June 7:** |  |
|  | Morning 1. | Pigment Algorithms (*lecture*) |
|  | Morning 2. | Primary Production Algorithms (*lecture*) |
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|  | Afternoon 1. | Atmospheric correction (*lecture*) |
|  | Afternoon 2. | Continue Python (*computer work*) |
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|  | **Thursday June 8:** |  |
|  | Morning 1. | Introduction to SeaWiFS, MODIS, VIIRS, OLCI, PACE and HawkEye Part I (*lecture*) |
|  | Morning 2. | Introduction to SeaWiFS, MODIS, VIIRS, OLCI, PACE and HawkEye Part II (*lecture*) |
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|  | Afternoon 1. | Ordering SeaWiFS, MODIS, VIIRS OLCI, PACE and HawkEye Data (*short lecture*) |
|  | Afternoon 2. | Ordering SeaWiFS, MODIS, VIIRS, OLCI, PACE and HawkEye Data (*computer work*) |
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|  | **Friday June 9:** |  |
|  | Morning 1. | Using SeaDAS in*Interactive/GUI* *Mode* (*lecture*) |
|  | Morning 2. | Using SeaDAS in *Interactive/GUI Mode* |
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|  | Afternoon 1. | Running SeaDAS with pre-written Python Scripts for batch processing data from Level-1 to Level-3 (*lecture*) |
|  | Afternoon 2. | Running SeaDAS with pre-written Python Scripts for batch |

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| **Weekend Break June 10-11** | |
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| **Monday June 12:** |  |
| Morning | Running SeaDAS with pre-written Python Scripts for batch processing data from Level-1 to Level-3  (*continue* *computer work*) |
| Afternoon | Running SeaDAS with pre-written Python Scripts for batch processing data from Level-1 to Level-3  (*continue* *computer work*) |
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| **Tuesday June 13:** |  |
| Morning 1. | SST theory, data download and reading data into Python (*lecture*) |
| Morning 2. | SST theory, data download and reading data into Python (*computer work*) |
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| Afternoon 1. | Continue SST computer work |
| Afternoon 2. | Continue SST computer work |
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| **Wednesday June 14:** |  |
| Morning 1. | Wind theory, data download and reading data into Python (*lecture*) |
| Morning 2. | Wind theory, data download and reading data into Python (*computer work*) |
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| Afternoon 1. | Continue Wind computer work |
| Afternoon 2. | Continue Wind computer work |
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| **Thursday June 15:** |  |
| Morning 1. | Altimetry theory, data download and reading data into Python (*lecture*) |
| Morning 2. | Altimetry data download and reading data into Python (*computer work*) |
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| Afternoon 1. | Continue Altimetry computer work |
| Afternoon 2. | Continue Altimetry computer work |
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| **Friday June 16:** |  |
| Morning 1. | Empirical Orthogonal Function (EOF) Analysis (*lecture*) |
| Morning 2. | Empirical Orthogonal Function (EOF) Analysis  (*computer work*) |
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| Afternoon/Evening | BBQ Dinner |
| **Saturday June 17: Participants Depart** | |