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| **Final report: DATA ACQUISITION & SATELLITE SENSORS**  Deadline: 14/11/2024 |
| **Note: Write your report by yourself (don’t copy)** |
| Question 1/ 12 points: Process Landsat image to estimate the land surface temperature and soil moisture?   * Write a report to describe the data, method (steps of proceessing), results and discussion on your results (*at least 6 pages*) * Landsat image and vector of blocks is in the Final Test Requirements * The study area for each student is listed in the table below. |
| Question 2/ 8 points: Write a technique reports for the work below.  **Study Area: Tonle Sap Lake**  **First part: Working with water level data**  1. Get time series of water level of the lake from G-REALM database (m)  2. Get time series of water level of the lake from Hydroweb Next database (m)  3. Compare on the same plot two time series and calculated the correlation  4. Get the mean of the two time series, and using that as the final time series that you used (m)  **Second part: Working with MODIS images to get the time series of water extent of the lake**  1. Understand the Matlab code that the lecturer has provided and explained  2. Re-run the code (using whatever languages you want)  3. Get time series of water extent of the lake (km2)  4. Compare your time series with the estimated values provided by Hydroweb Next  **(**Define the period for each student is listed in the table below.) |

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| **No.** | **Student ID** | **Full name** | **Period for processing Altimetry and Modis data**  **(Question 2)** | **Block for estimating land surface temperature and soil moisture (Question 1)** |
| 1 | BA12-029 | Nguyễn Thị Hải Chi | 2009 - 2014 | BL1 |
| 2 | BA12-032 | Nguyễn Ngọc Chương | 2010 - 2015 | BL2 |
| 3 | BA12-059 | Lê Vũ Hướng Dương | 2011 - 2016 | BL3 |
| 4 | BA12-123 | Vũ Quang Minh | 2012 – 2017 | BL4 |
| 5 | BA12-133 | Lê Thành Nam | 2013 - 2018 | BL5 |
| 6 | BA12-157 | Phan Diễm Quỳnh | 2014 - 2019 | BL6 |
| 7 | 22BI13026 | Nguyễn Minh Anh | 2015 - 2020 | BL7 |
| 8 | 22BI13041 | Trần Quang Anh | 2016 - 2021 | BL8 |
| 9 | 22BI13083 | Vũ Gia Đạt | 2017 - 2022 | BL9 |
| 10 | 22BI13176 | Trần Huy Hoàng | 2009 – 2016 | BL10 |
| 11 | 22BI13197 | Nguyễn Quang Huy | 2010 – 2017 | BL11 |
| 12 | 22BI13337 | Hà Bùi Khôi Nguyên | 2011 – 2018 | BL12 |
| 13 | 22BI13362 | Dương Thu Phương | 2012 – 2010 | BL13 |
| 14 | 22BI13389 | Phạm Tuấn San | 2013 – 2020 | BL14 |
| 15 | 22BI13391 | Bùi Khải Sơn | 2014 - 2021 | BL15 |
| 16 | 22BI13428 | Lê Quang Trí | 2015 - 2022 | BL16 |
| 17 | 22BI13471 | Đỗ Đức Vinh | 2010 - 2018 | BL17 |
| 18 | BI12-066 | Phạm Ngọc Cường | 2010 – 2019 | BL18 |
| 19 | BA11-063 | Nguyễn Thùy Linh | 2010 – 2020 | BL19 |
| 20 |  | Antoine Lebreton | 2010 – 2021 | BL20 |
| 21 |  | Alexia Spanneut | 2010 – 2022 | BL21 |
| 22 |  | Trương Tuấn Nghĩa | 2009 - 2014 | BL20 |