

Table RC2.1: Data comparison between both peatlands (APA1 and APA2).

| Peatlands       | Bassin Area     | Peatland Area  | Basin area/Peatland area | Mean Net Productivity | Mean CAR core Top     | Mean CAR core base    |
|-----------------|-----------------|----------------|--------------------------|-----------------------|-----------------------|-----------------------|
|                 | km <sup>2</sup> | m <sup>2</sup> |                          | Kg C/m <sup>2</sup>   | gC/m <sup>2</sup> /yr | gC/m <sup>2</sup> /yr |
| APA1            | 3,30            | 32000,00       | 103,10                   | 0,37                  | 316,00                | 588,00                |
| APA2            | 2,14            | 49200,00       | 43,60                    | 0,27                  | 142,00                | 251,00                |
| Ratio APA1/APA2 | 1,54            | 0,65           | 2,36                     | 1,37                  | 2,23                  | 2,34                  |

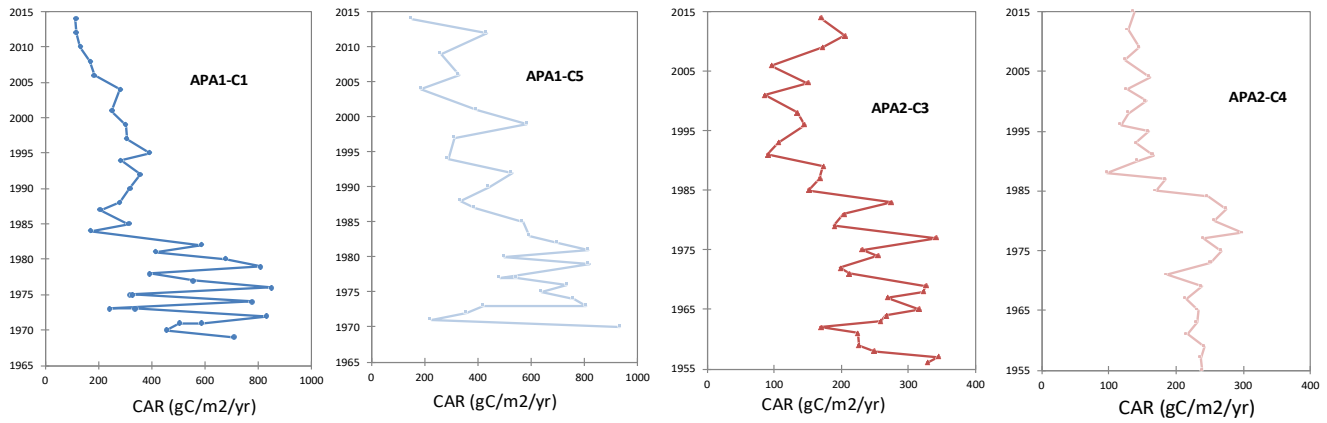


Figure RC2.1: Carbon Accumulation Rates for the 4 cores.

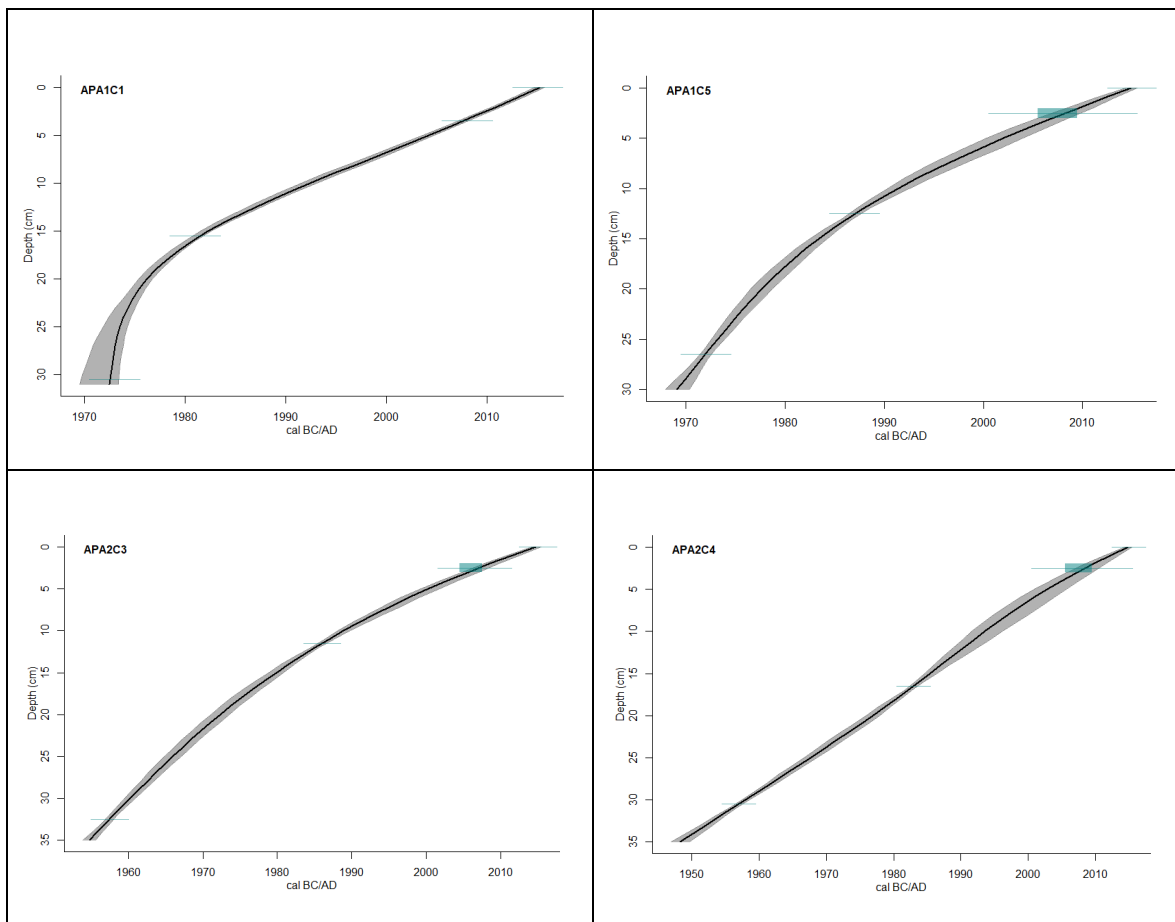


Figure RC2.2: New age models.

Table RC2.2: Statistics for the two periods, before and after the transition for the 4 cores.

| Peatland | Cores   | Mean CAR before<br>(gC/m <sup>2</sup> /yr) | CAR after<br>(gC/m <sup>2</sup> /yr) | Year of<br>Transition |
|----------|---------|--|--------------------------------------|-----------------------|
| APA1     | APA1-C1 | 246 ± 86                                   | 551 ± 198                            | 1985                  |
| APA1     | APA1-C5 | 387 ± 140                                  | 625 ± 206                            | 1983                  |
| APA2     | APA2-C3 | 142 ± 37                                   | 260 ± 54                             | 1985                  |
| APA2     | APA2-C4 | 143 ± 22                                   | 242 ± 26                             | 1985                  |



Figure RC2.3: The sub-catchment area of APA1.



Figure RC2.4: The sub-catchment area of APA2.

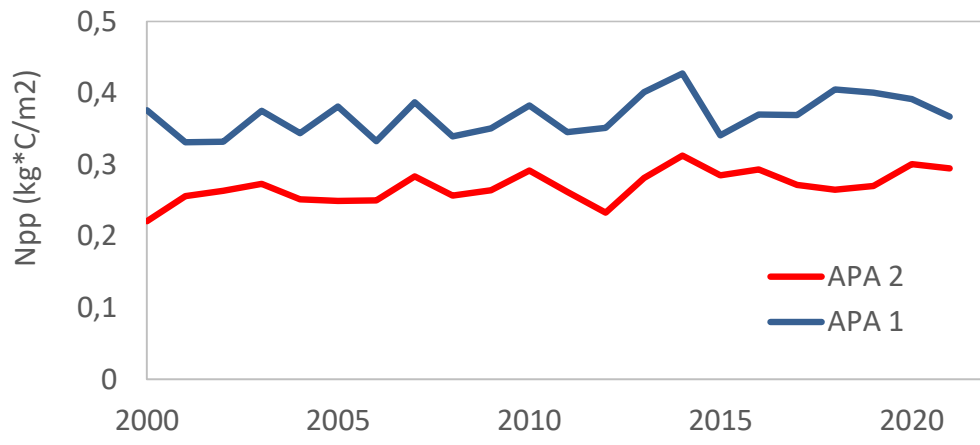


Figure RC2.5: Primary production from MODIS satellite data (2000-2021) for the study area.