|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Top layer | Bottom layer | Equation for velocity map | v1 | v2 | T1 | T2 |
| Water | Sea bottom | 1500 m/s |
| Sea bottom | Top Miocene | v1+ (((v2-v1)/(T2-T1))\*( z - T1)) | 1500 m/s | topMioc\_map | seabed\_twt | topMioc\_twt |
| Top Miocene | Top Cretaceous | v1+ (((v2-v1)/(T2-T1))\*( z - T1)) | topMioc\_map | topCret\_map | topMioc\_twt | topcreta\_twt |
| Top Cretaceous | EABU | v1+ (((v2-v1)/(T2-T1))\*( z - T1)) | topCret\_map | topAlb\_map | topCret\_twt | topAlb\_twt |
| EABU | Top Hauterivian | alb\_neocom\_map |
| Top Hauterivian | CABU | neocom\_basement\_map |
| CABU | Basement | 5500\*exp(v1+ 0.0501\*( z - T1)/2000 | |

TABLE S1. POLYNOMIAL LAW USED FOR THE DEPTH CONVERSION