

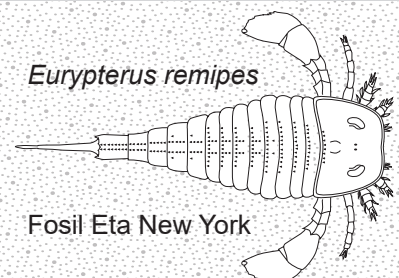
Tablo Referans pou SYANS LATÈ AK LESPAS

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EDISYON 2024

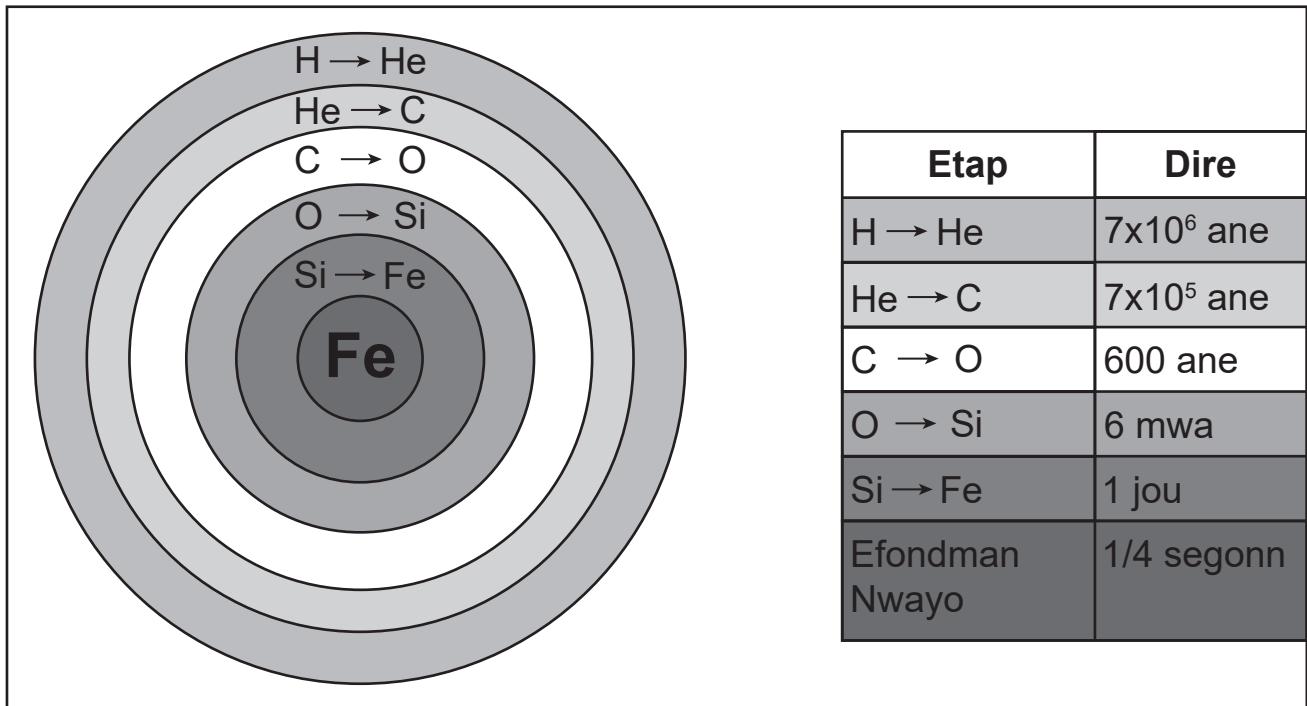
Yo ta dwe itilize Edisyon Tablo Referans Syans Latè ak Lespas yo nan salklas la apati ane eskolè 2024–25 la. Premye egzamen yo pral sèvi ak tablo sa yo se Egzamen Regents Jen 2025 nan Syans Latè ak Lespas yo.



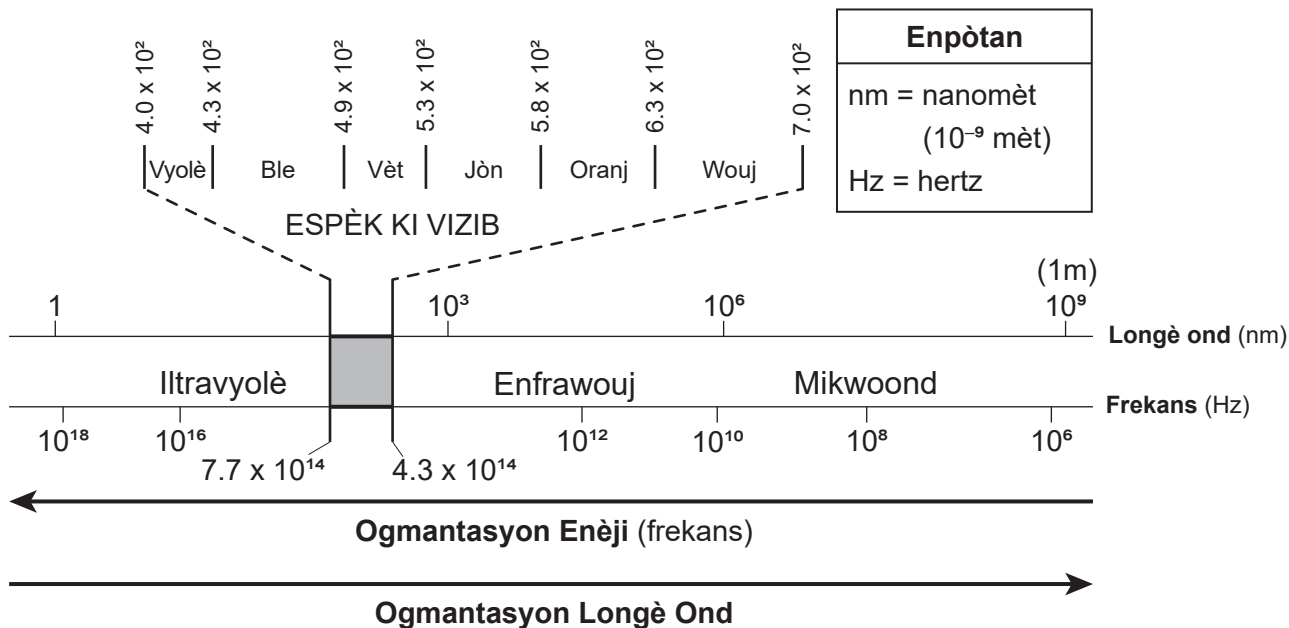
Tablo Done sou Objè Sistèm Solè yo

| Objè Selès | Distans Mwayèn ki soti Solèy la (milyon km) | Peryòd Revolisyon (d=jou Latè) (y=ane Latè) | Peryòd Wotasyon nan Ekwatè | Eksantrisite nan Obit la | Dyamèt Ekwatoryal (km) | Enklinezyon Aksyal (°) |
|------------|---|---|----------------------------|--------------------------|------------------------|------------------------|
| SOLÈY | --- | --- | 27 d | --- | 1,392,000 | 7.25 |
| MÈKI | 57.9 | 88 d | 59 d | 0.206 | 4879 | 0.03 |
| VENIS | 108.2 | 224.7 d | 243 d | 0.007 | 12,104 | 177.4 |
| LATÈ | 149.6 | 365.26 d | 23 èdtan 56 min 4 segonn | 0.017 | 12,756 | 23.49 |
| LATÈ LALIN | 149.6 (0.385 de Latè) | 27.3 d | 27.3 d | 0.055 | 3476 | 6.68 |
| MAS | 228.0 | 1.9 y | 24 èdtan 37 min 23 segonn | 0.094 | 6792 | 25.19 |
| SERÈS | 414.0 | 4.6 y | 9 èdtan 6 min | 0.076 | ~939 | 4.00 |
| PALLAS | 414.0 | 4.6 y | 7 èdtan 40 min | 0.230 | ~546 | 84.00 |
| JIPITÈ | 778.5 | 11.9 y | 9 èdtan 50 min 30 segonn | 0.048 | 142,984 | 3.13 |
| SATIN | 1432.0 | 29.5 y | 10 èdtan 14 min | 0.054 | 120,536 | 26.73 |
| IRANIS | 2867.0 | 83.7 y | 17 èdtan 14 min | 0.047 | 51,118 | 97.77 |
| NEPTIN | 4515.0 | 163.7 y | 16 èdtan | 0.009 | 49,528 | 28.32 |
| PLITON | 5906.4 | 248.0 y | 6 d 9 h | 0.250 | 2376 | 122.5 |
| ERIS | 10,000 | 557.2 y | 1 d 1 h 58 minit | 0.436 | 2400 | 78.30 |

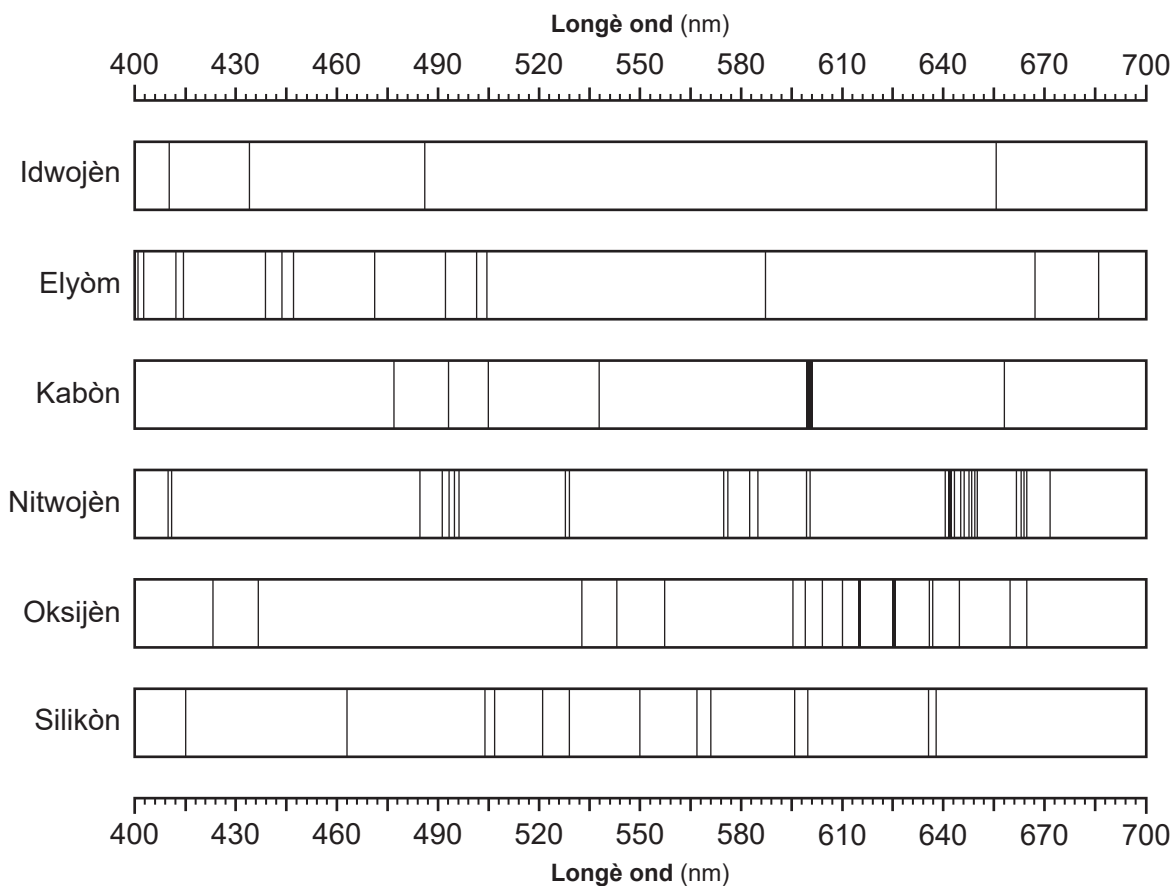
Nikleyosentèz Jeneralize nan yon Etwal Masiv



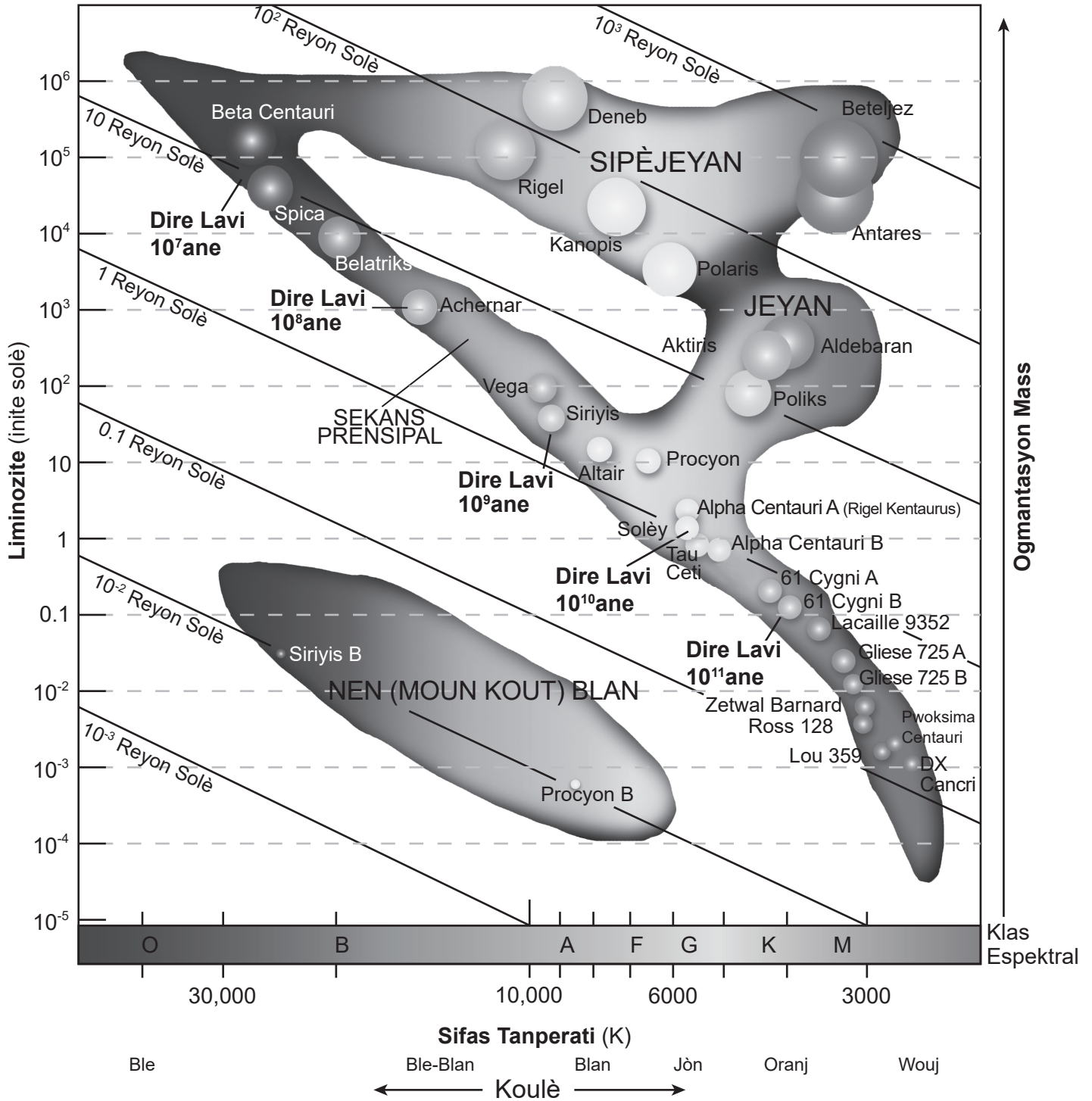
Pòsyon nan Espèk Elektwomayetik ki gen Rapò ak Syans Latè ak Lespas



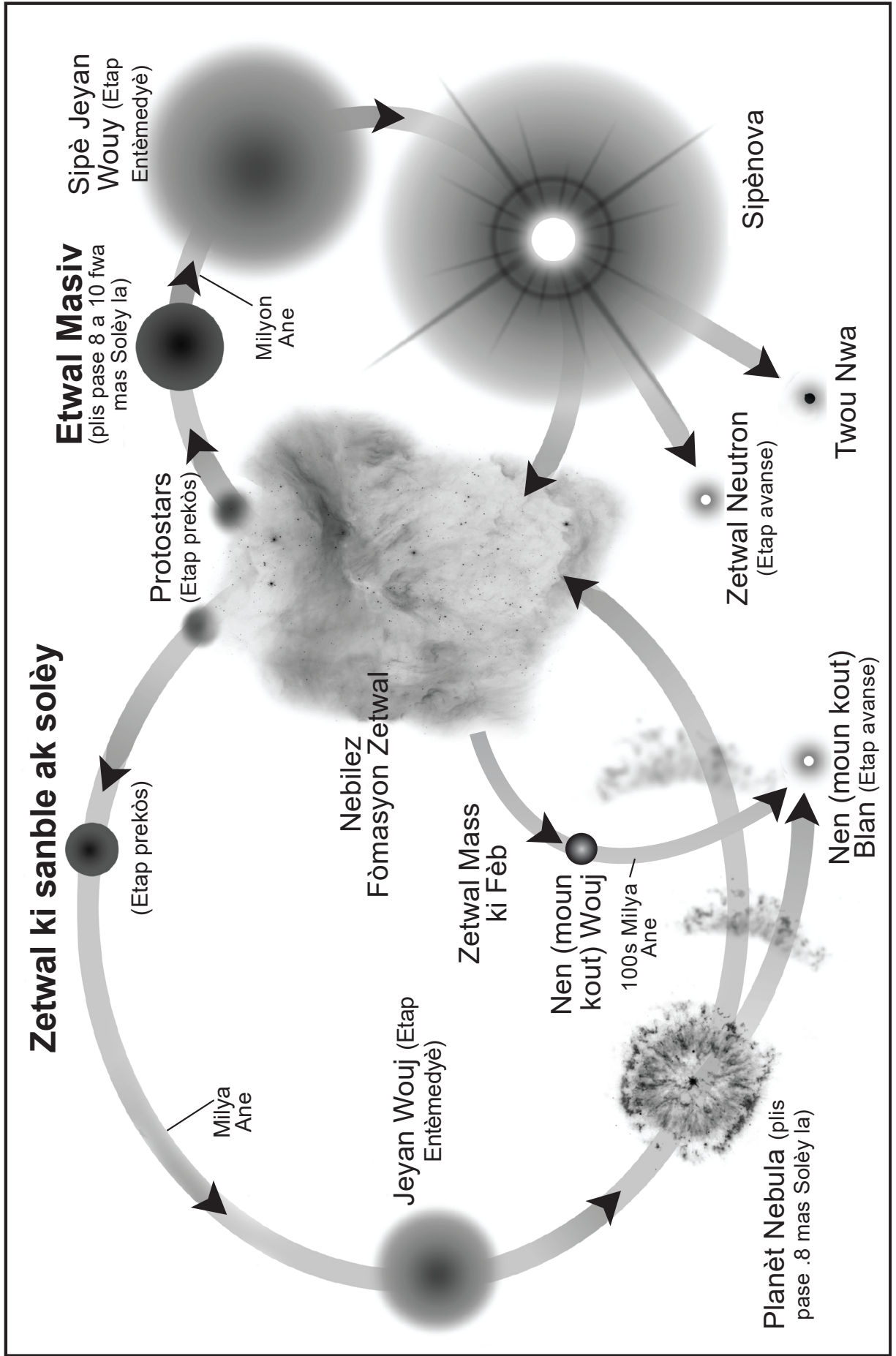
Espèk Emisyon nan Sèten Eleman ki soti nan Zetwal yo

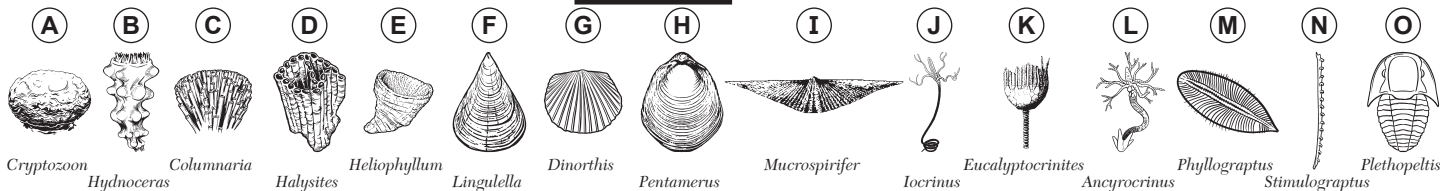
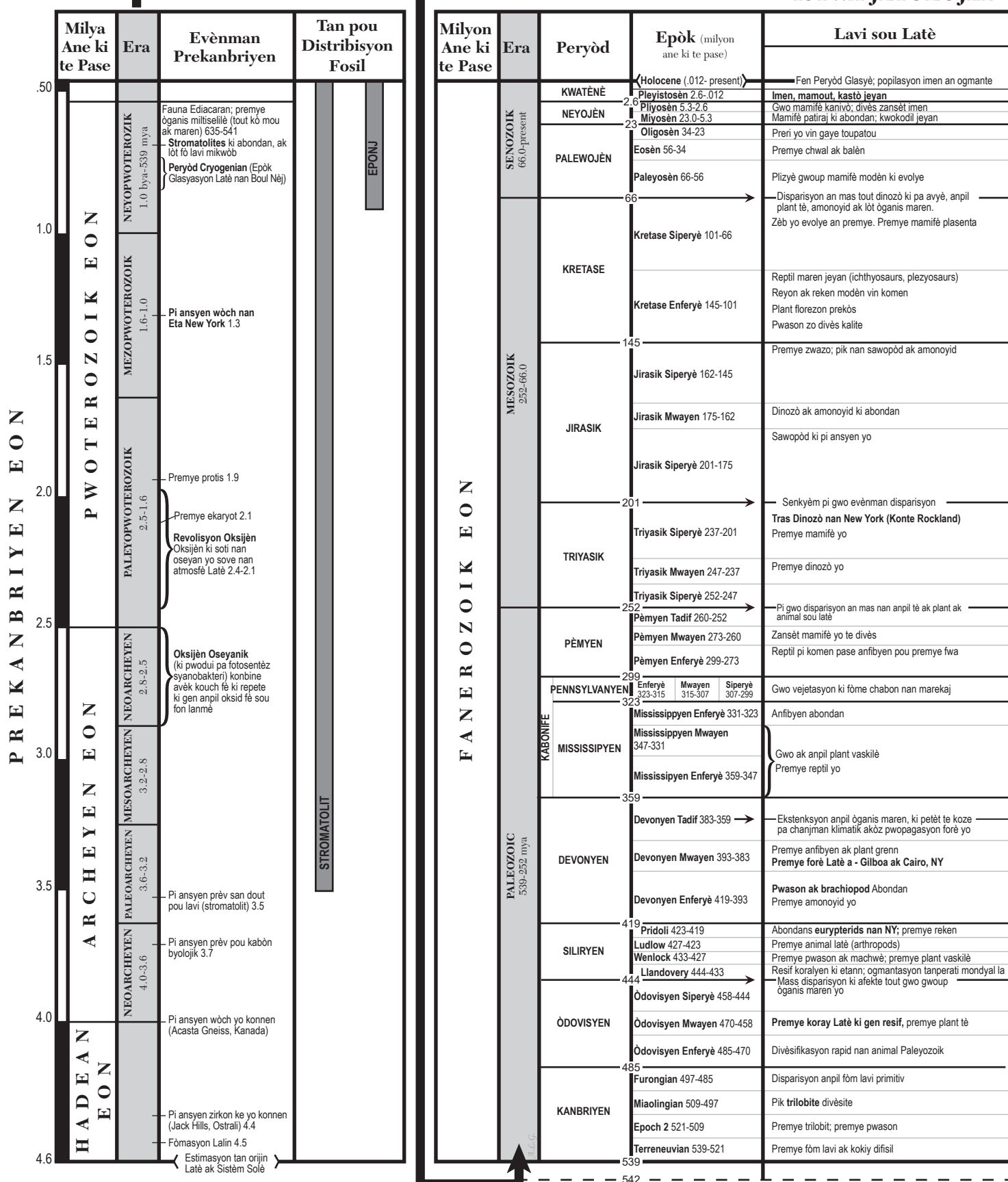



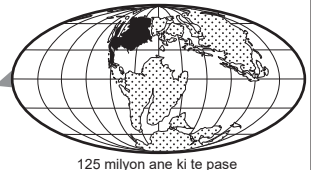
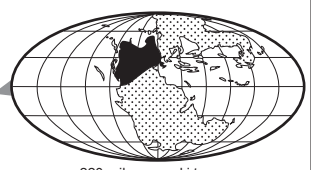
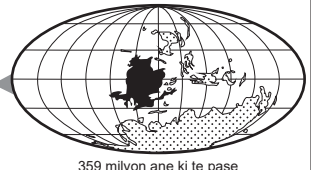
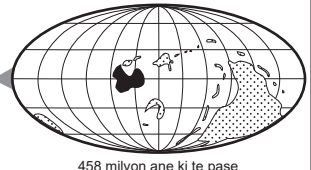
Dyagram H-R

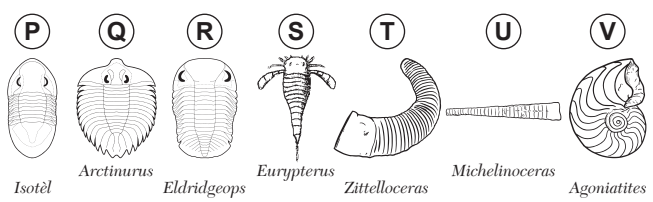


Modèl Sik Lavi nan Zetwal yo

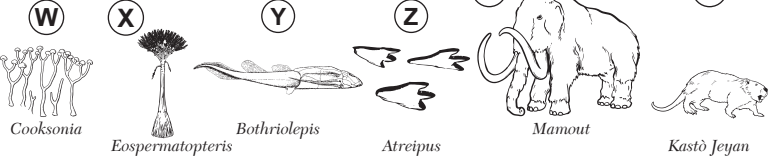




| Tan pou Distribisyon Fosil | NY Dosye Rock Sediman Soubasman | Evènman Jewolojik Enpòtan nan New York | Pozisyon Dedui Mas Latè |
|----------------------------|---------------------------------------|--|--|
| | | Avanse ak retrè dènnye glas kontinantal |  50 milyon ane ki te pase |
| | | Sab ak ajil ki kache nan Long Island ak Staten Island depoze sou maj Oseyan Atlantik la | |
| | | | |
| | | Kòmanse soulèyman rejyon Adirondack tankou yon dòm |  125 milyon ane ki te pase |
| | | Premye ouvèti Oseyan Atlantik Amerik di Nò ak Lafrik separe | |
| | | | |
| | | Entrizyon nan Palisades rebò Pangea kòmanse kraze |  220 milyon ane ki te pase |
| | | | |
| | | Alleghenian orogeny ki te koze pa kolizyon nan Amerik di Nò ak Lafrik sou maj transfòm, fòm Pangea |  359 milyon ane ki te pase |
| | | Catskill delta fòm Ewozyon nan Mòn Akadyen | |
| | | Akadyen orogeny te koze pa kolizyon nan Amerik di Nò ak Avalon ak fèmti rès pati ki rete nan Oseyan Lapetus la | |
| | | Sèl ak jips depoze nan basen evaporit | |
| | | Owojèn salinik te lakòz nouvo sibdiksyon sou bò solèy leve nan Proto - Amerik di Nò |  458 milyon ane ki te pase |
| | | Ewozyon nan Montay Taconic; Fòm delta Queenston | |
| | | Takonyen orogeney ki te koze pa fèmti pati lwès Oseyan lapetus ak kolizyon ant Amerik di Nò ak zile volkanik arc la | |
| | | Depozisyon jeneralize sou majè pati Eta New York sou kwen Oseyan lapetus | |

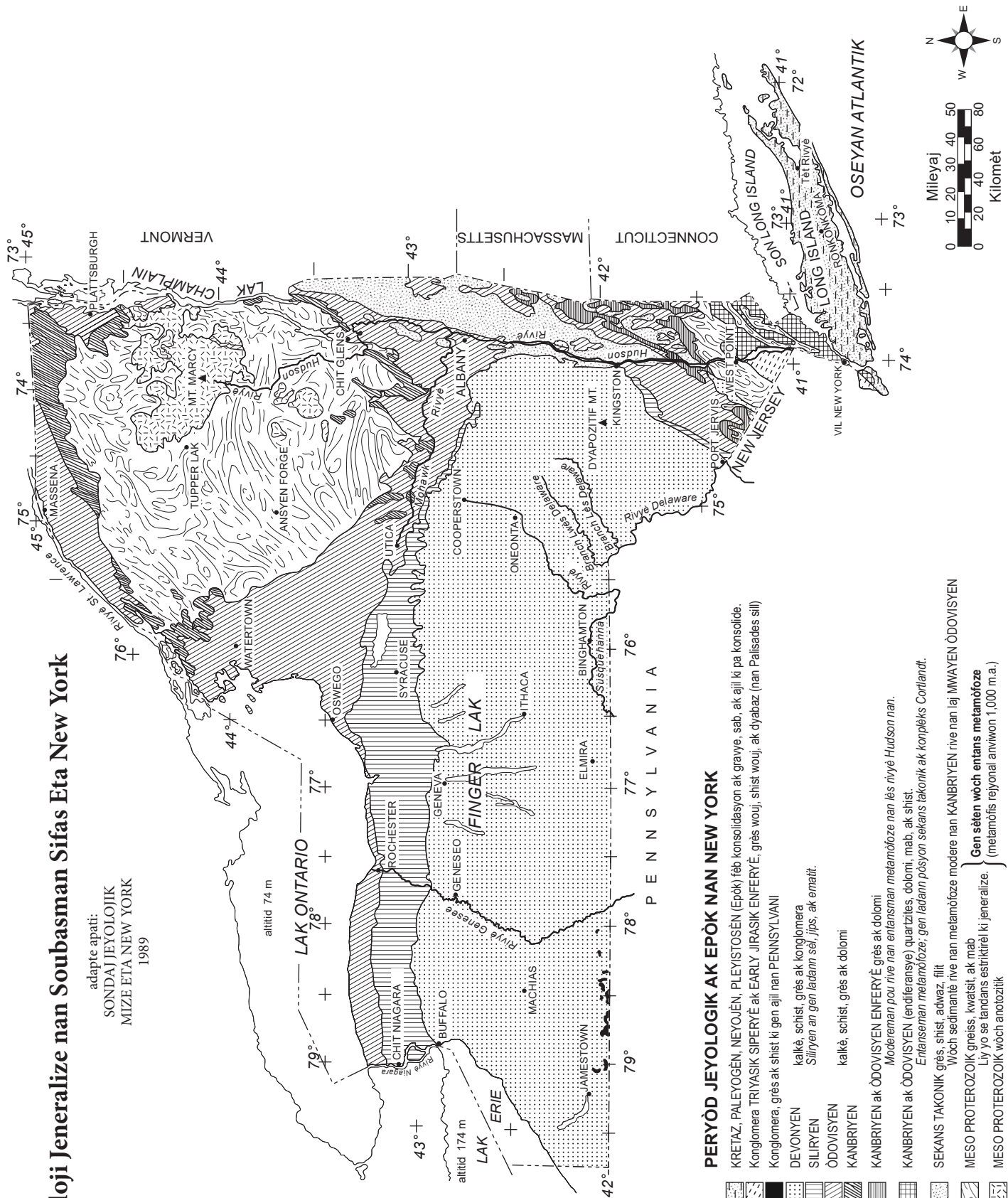


Premye Ouvèti Oseyan lapetus. **Grenville orogeny**: Metamòfis soubasman ki ekspoze - Adirondacks ak Hudson Highlands.



Jeyoloji Jeneralize nan Sousbasman Sifas Eta New York

adapte apati:
SONDAI JEYOLOJIK
MIZE ETA NEW YORK
 1989



PERYÒD JEYOLOJIK AK EPÒK NAN NEW YORK

KRETAZ, PALEYOGEN, NEYOJEN, PLEYISTOSÈN (Epòk) fòb konsolidasyon ak gravye, sab, ak ajil ki pa konsolide.
 Konglomera TRIVASIK SIPERYÈ ak EARLY JURASIK ENFERYÈ, grès wouj, shist wouj, ak dyabaz (nan Palisades sill)

DEVOVYEN Konglomera, grès ak shist ki gen ajil nan PENNSYLVANI

SILIRYEN kaikè, schist, grès ak konglomera

ÒDOVIVYEN Siliryen an gen ladann sel, jips, ak emalit.

KANBRIYEN kaikè, schist, grès ak dolomi

KANBRIYEN ak ÒDOVIVYEN ENFERYÈ grès ak dolomi

KANBRIYEN ak ÒDOVIVYEN Modere nan pou rive nan entansman metamòfoze nan lès rivyè Hudson nan.

SEKANS TAKONIK grès, shist, adwaz, filit

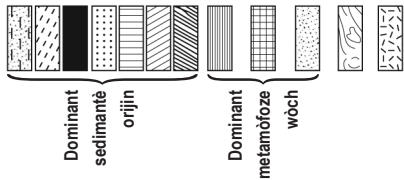
MESO PROTÉROZOÏK grès, schist, kwatsit, dolomi, mab, ak shist.

MESO PROTÉROZOÏK Ertrisenman metamòfoze; gen ladann posyon sekans takonik ak kompleks Cortlandt.

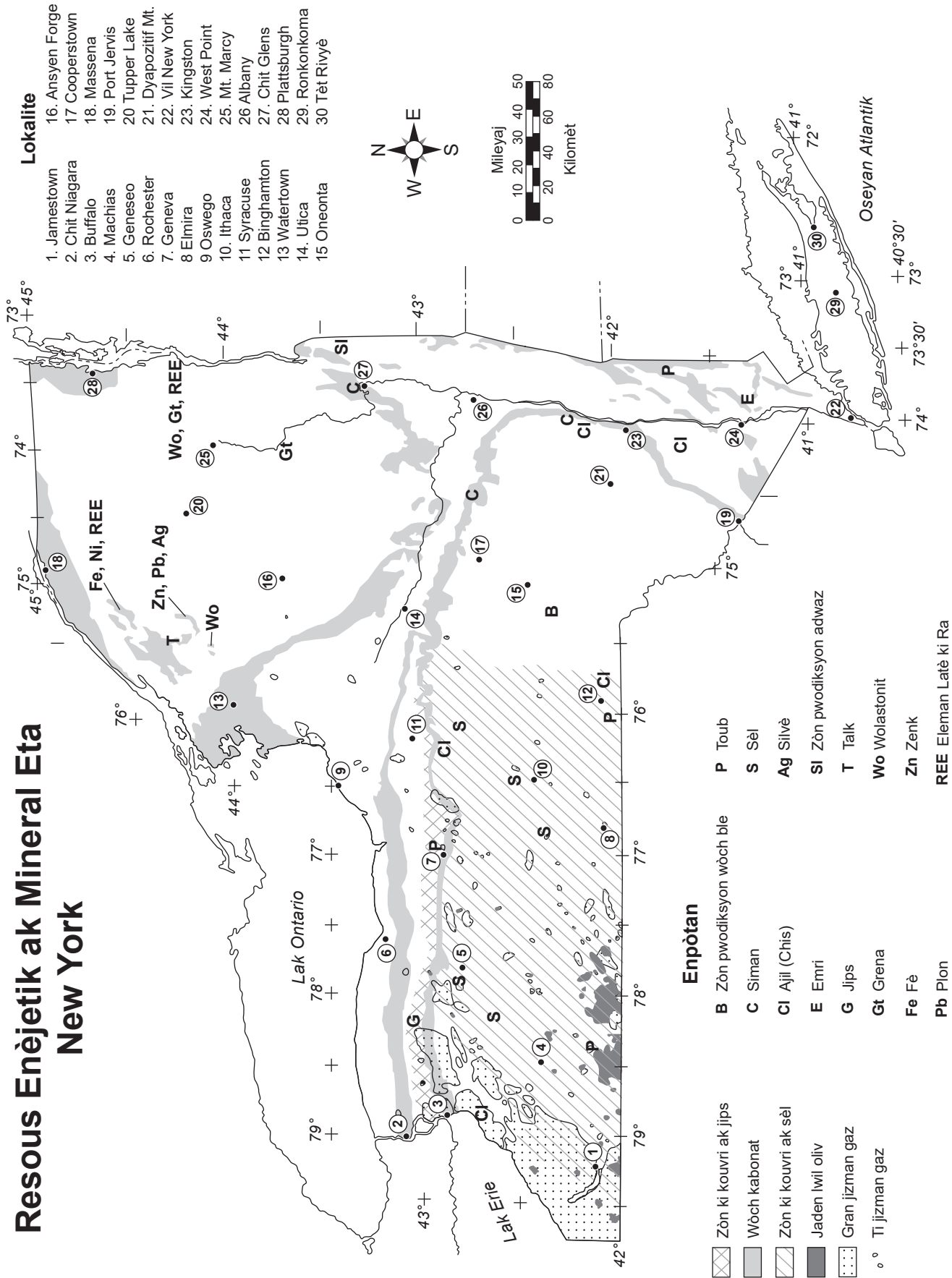
MESO PROTÉROZOÏK Woch sedimentè rive nan metamòfoze modere nan KANBRIYEN rive nan laj MWAYEN ÒDOVIVYEN

MESO PROTÉROZOÏK Lij yo se landans estriktirèl ki jeneralize.

MESO PROTÉROZOÏK woch anotoziik (metamòfis reijonal anviwon 1,000 m.a.)



Resous Enèjetik ak Mineral Eta New York



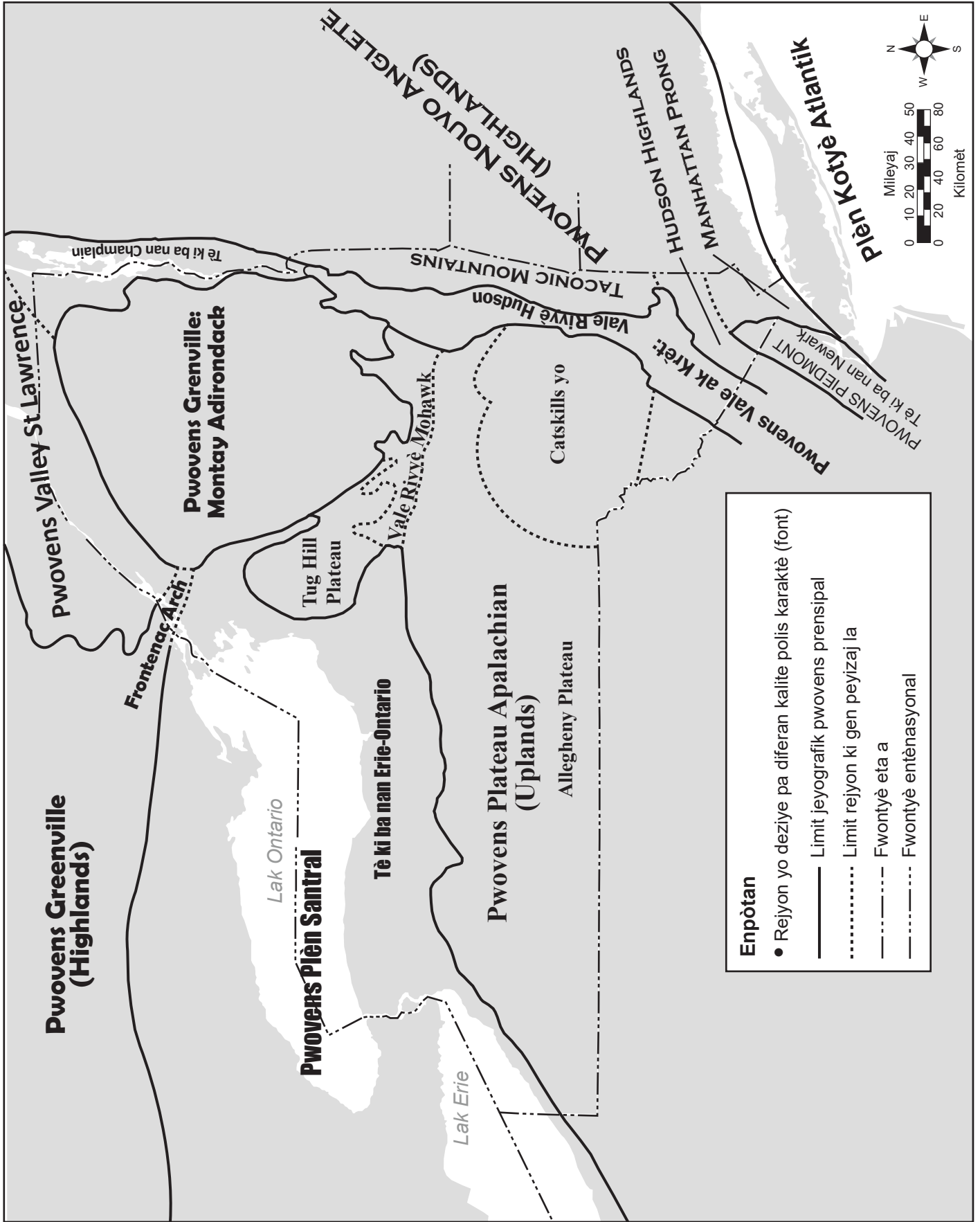
Lokalite

- | | |
|-----------------|--------------------|
| 1. Jamestown | 16. Ansyen Forge |
| 2. Chit Niagara | 17. Cooperstown |
| 3. Buffalo | 18. Massena |
| 4. Machias | 19. Port Jervis |
| 5. Geneseo | 20. Tupper Lake |
| 6. Rochester | 21. Dyapozitif Mt. |
| 7. Geneva | 22. Vil New York |
| 8. Elmira | 23. Kingston |
| 9. Oswego | 24. West Point |
| 10. Ithaca | 25. Mt. Marcy |
| 11. Syracuse | 26. Albany |
| 12. Binghamton | 27. Chit Glens |
| 13. Watertown | 28. Plattsburgh |
| 14. Utica | 29. Ronkonkoma |
| 15. Oneonta | 30. Tèt Rivyè |

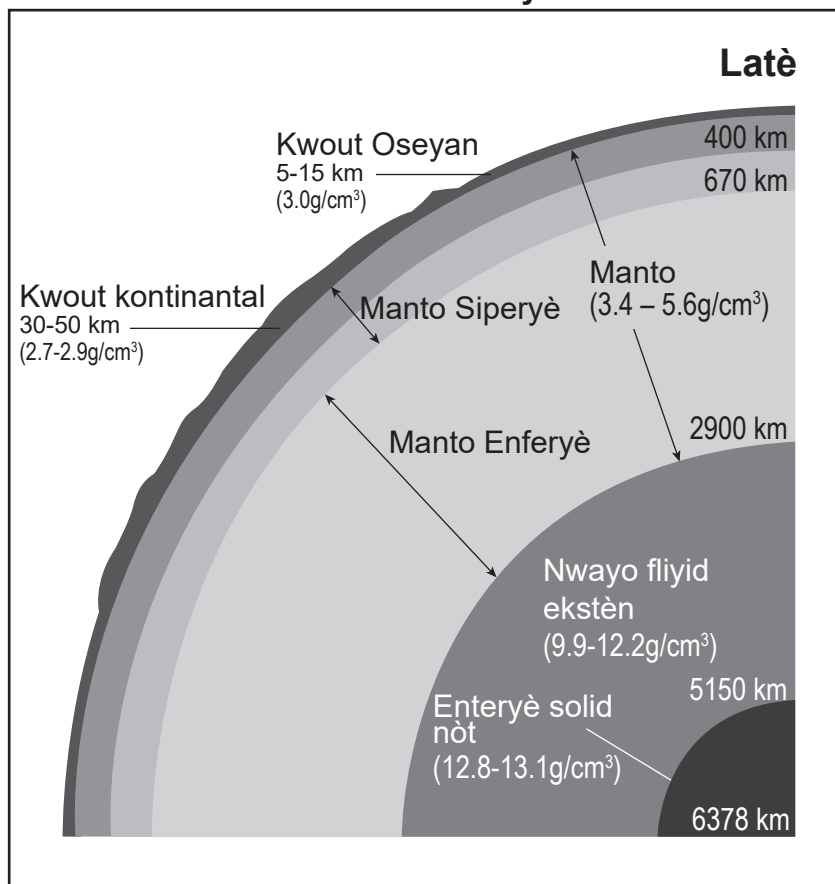
Enpòtan

- | | | | |
|--|-----------------------|------------|----------------------|
| | Zòn ki kouvri ak jips | P | Toub |
| | Wòch kabonat | S | Sèl |
| | Zòn ki kouvri ak sèl | Ag | Silvè |
| | Jaden lwil oliv | SI | Zòn pwodiksyon adwaz |
| | Gran jizman gaz | T | Talk |
| | Ti jizman gaz | Wo | Wolastonit |
| | | Zn | Zenk |
| | | REE | Eleman Latè ki Ra |

PWOVENS JEYOGRAFIK AK REJYON PEYIZAJIS NAN ETA NEW YORK

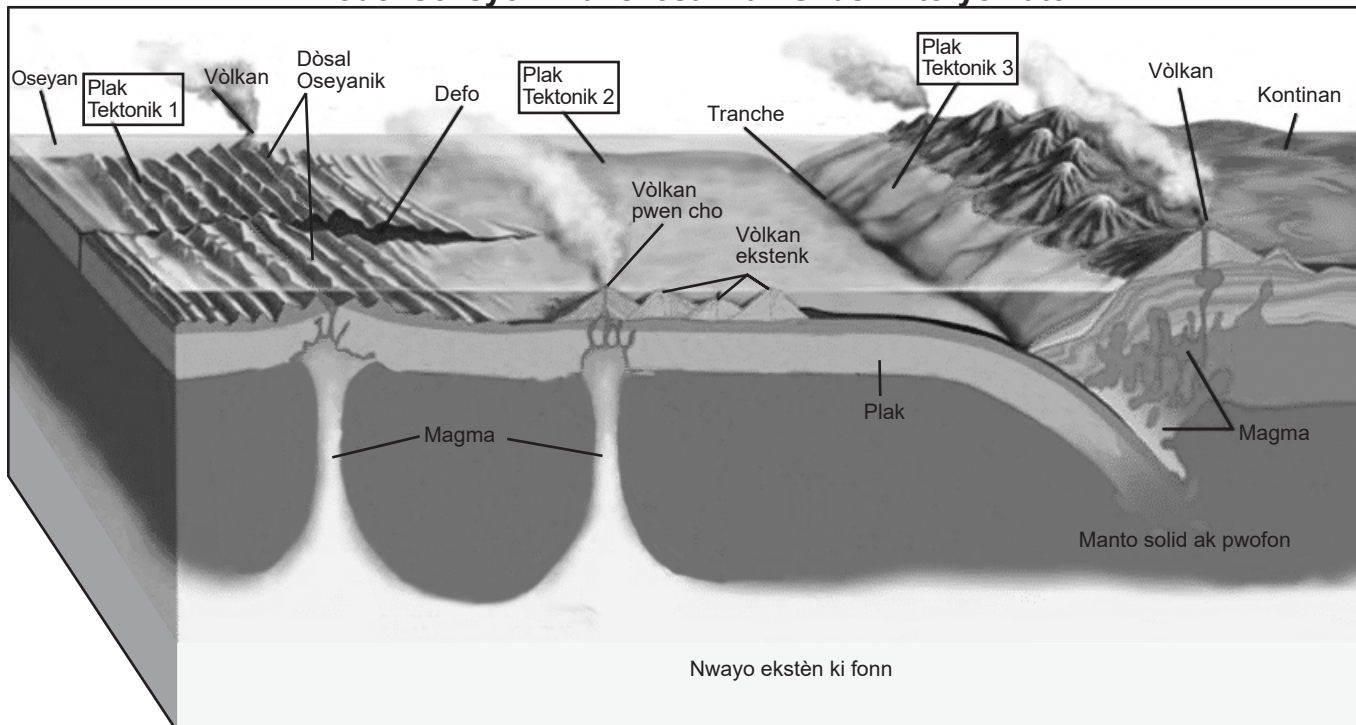


Modèl Estrikti Enteryè Latè



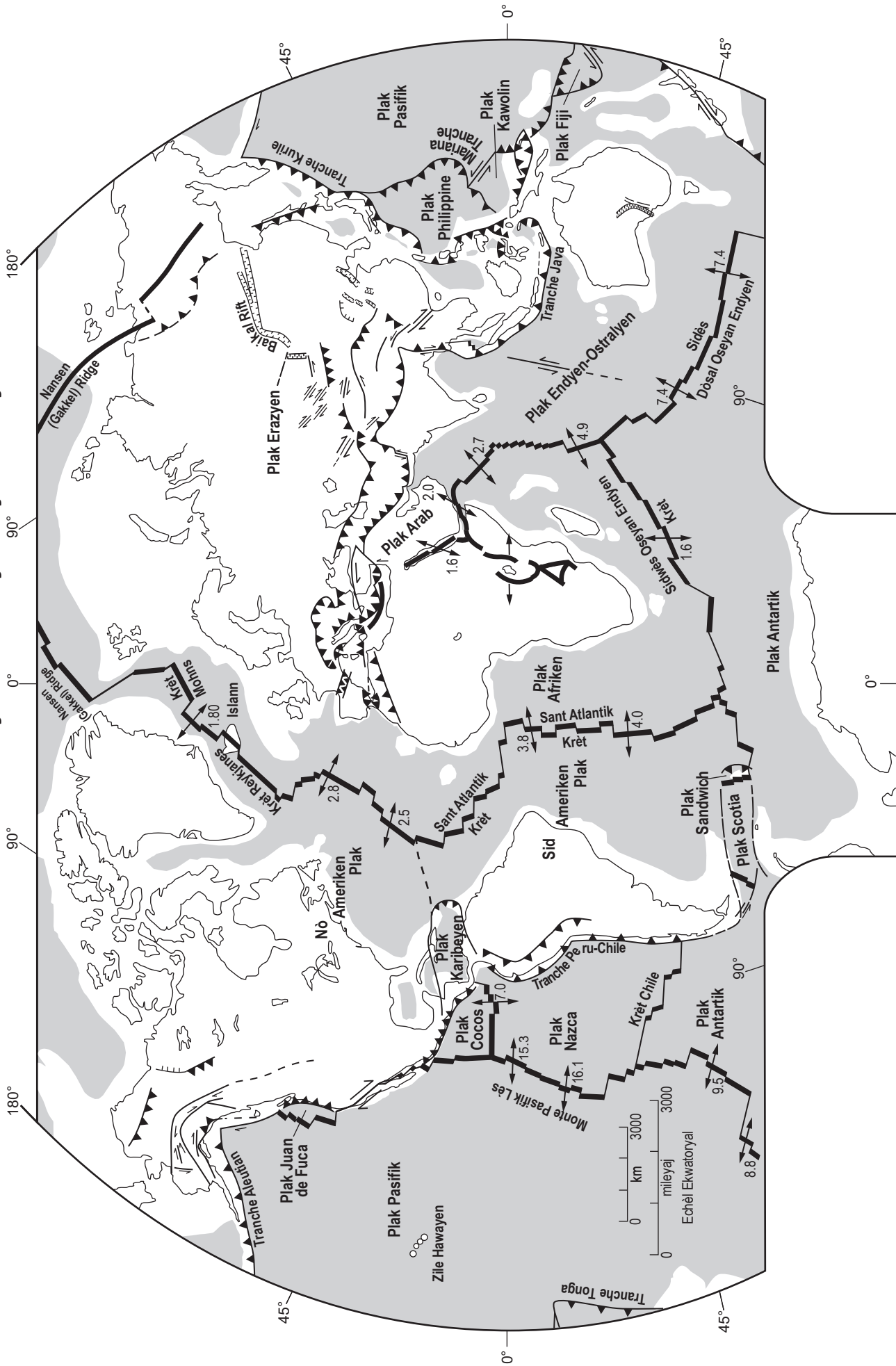
(Pa trase nan echèl)

Modèl Seksyon Transvèsal nan Sifas Enteryè Latè



(Pa trase nan echèl)

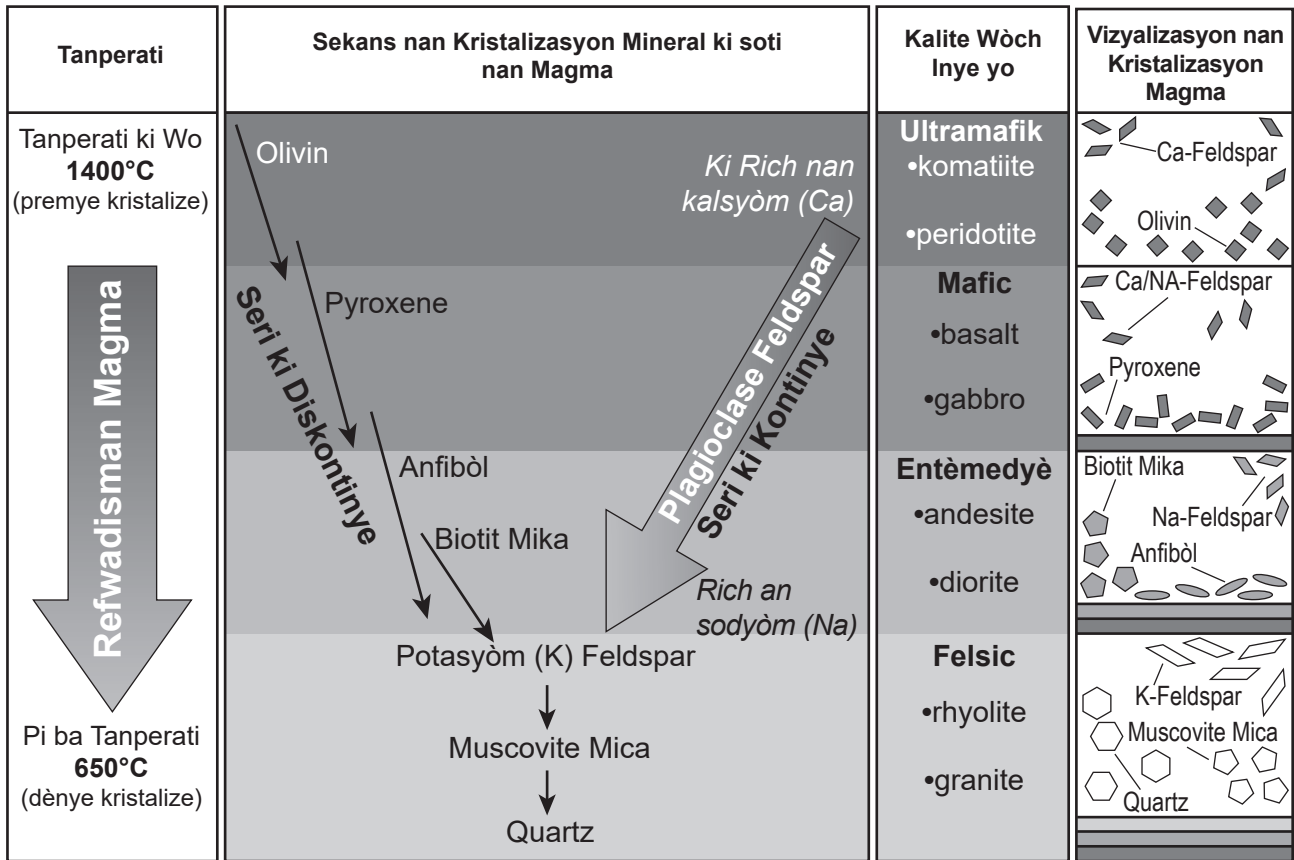
Aktivite Tektonik Mondyal nan Dènye Milyon Ane yo



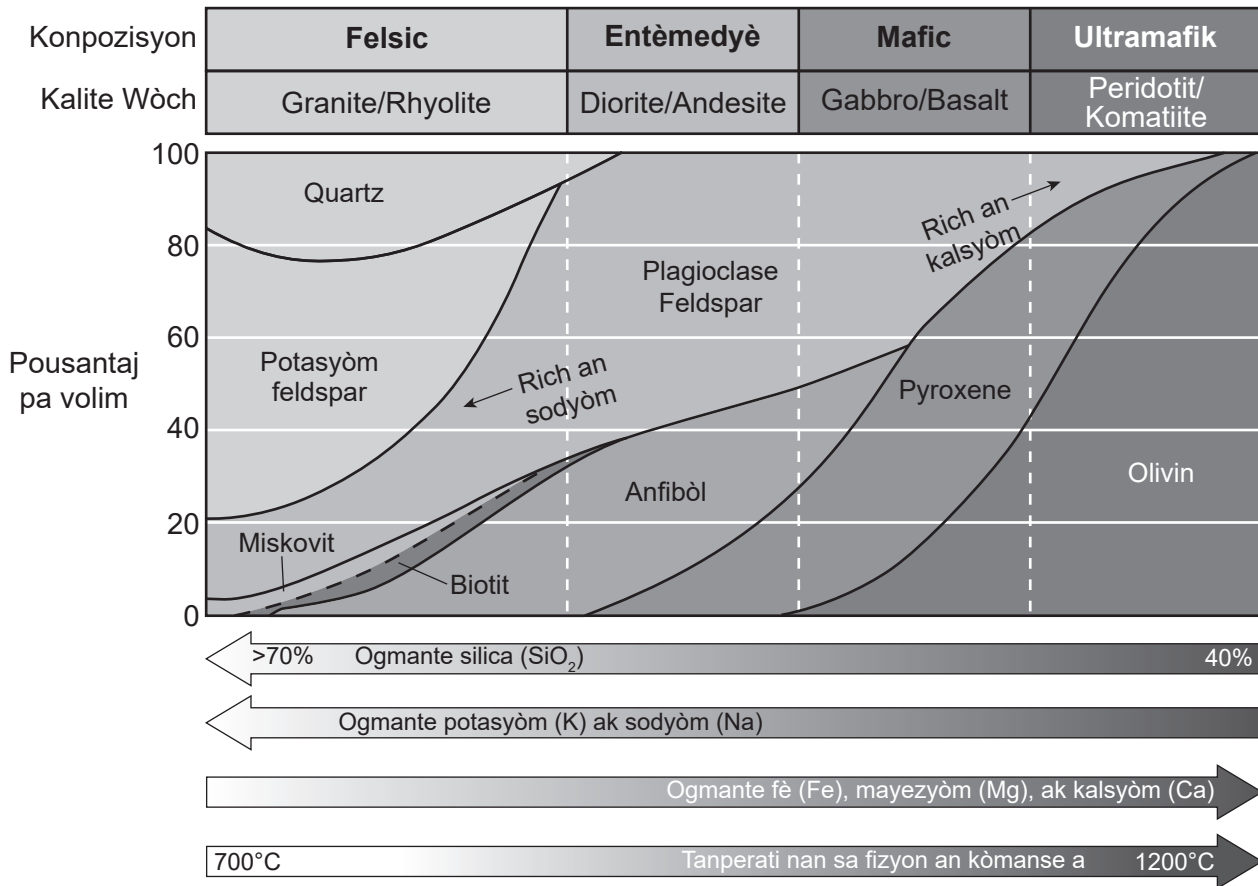
ENPÖTAN

- Gwo fay aktif oswa zòn fay
- Fay nòmral, hachures sou kote ki ranvèse
- Limit Plak Divèjant; Fay transfòmman ki jeneralize
- Pousantaj etalman total, cm/ane; direksyon apwoksimatif
- Limit Plak Konvèjant
- Limit plak ensèten
- plak rediksyon
- plak rekouvenman
- Transfòmasyon limit plak

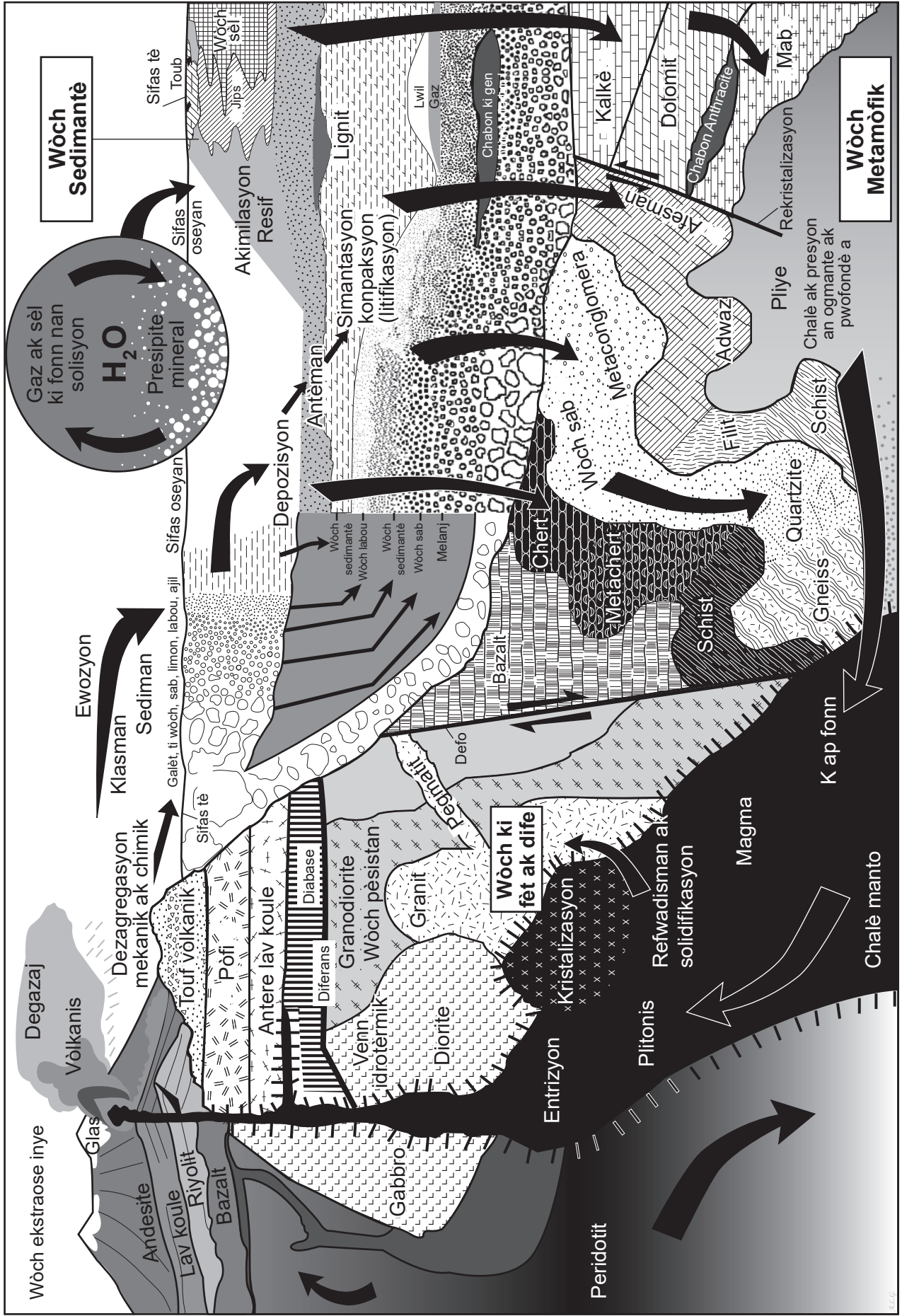
Modèl Seri Reyaksyon Bowen



Konpozisyon Mineral nan Wòch Inye yo



Enfografi sou Sik Wòch



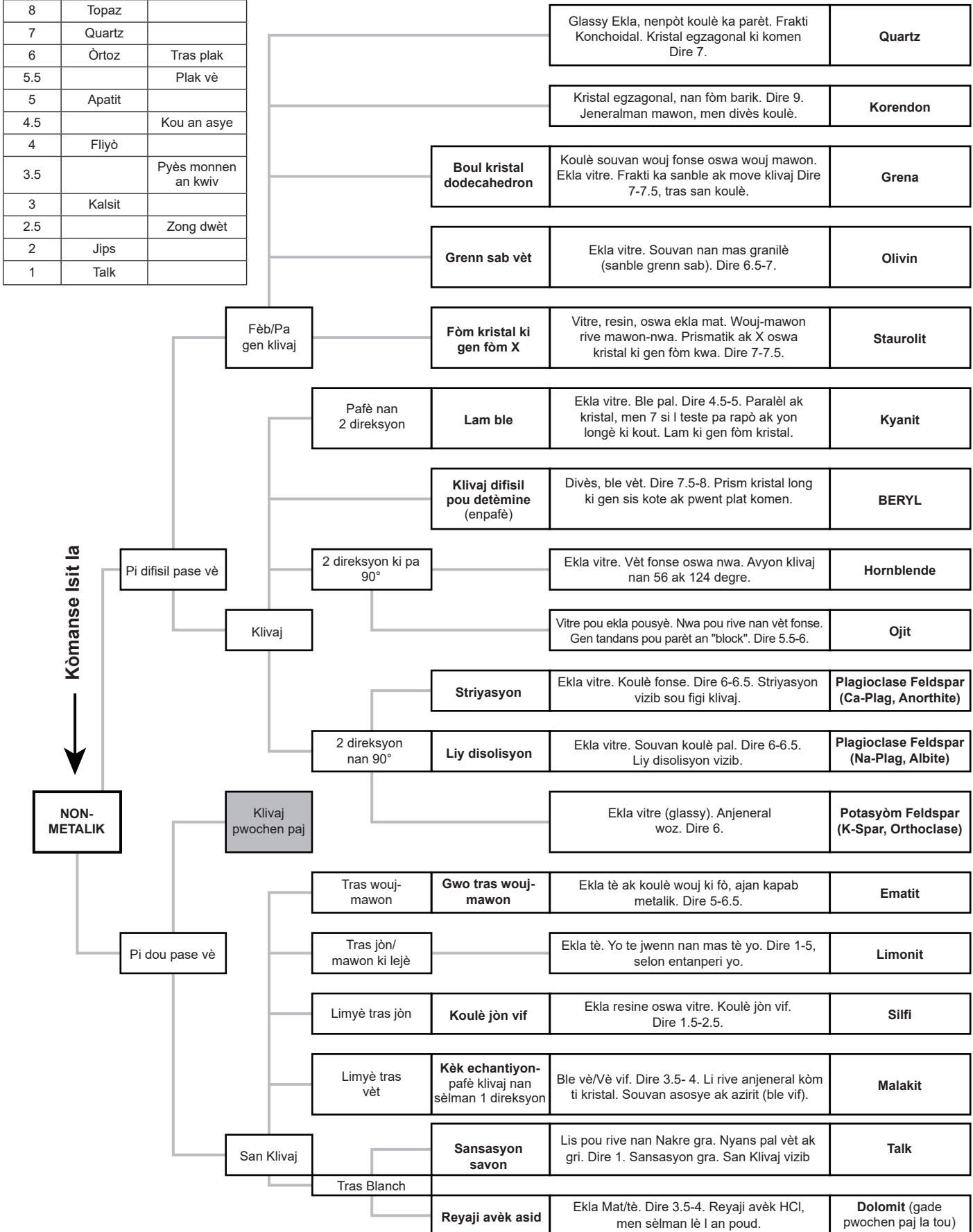
Eleman Radyoaktif Jeyolojikman Enpòtan ke yo Itilize pou datasyon Radyometrik

| Paran Izotòp | Pwodwi Dezentegrasyon Fiy | Mwatye lavi (ane) | Plaj Datasyon Itil (ane) | Materyèl anpilab |
|--------------|---------------------------|-------------------|--------------------------|--|
| Samarium-147 | Neodymium-143 | 106 Milya | 10 Milyon - 4.6 Milya | Garnets, micas |
| Rubidium-87 | Strontium-87 | 48.8 Milya | 10 Milyon - 4.6 Milya | Potasyòm-pote mineral (mika, fèlspa, hornblende), tout wòch inye oswa metamòfik |
| Iranyòm-238 | Plon-206 | 4.5 Milya | 10 Milyon - 4.6 Milya | Mineral ki gen iranyòm (zikon, apatit, uraninit) |
| Iranyòm-235 | Plon-207 | 713 milyon | 10 milyon - 4.6 milya | Mineral ki gen iranyòm (zikon, apatit, uraninit) |
| Potasyòm-40 | Argon-40 | 1.3 milya | 100,000 - 4.6 milya | Mineral ki gen potasyòm (mika, fèlspa, orblend), wòch inye oswa vòkanik (tuf ak/ oswa koule lav) |
| Kabòn-14 | Nitwojèn-14 | 5730 | 100 - 70,000 | Materyèl òganik, glas glacial ki gen gaz kabonik, dlo anba tè, ak dlo lanmè |

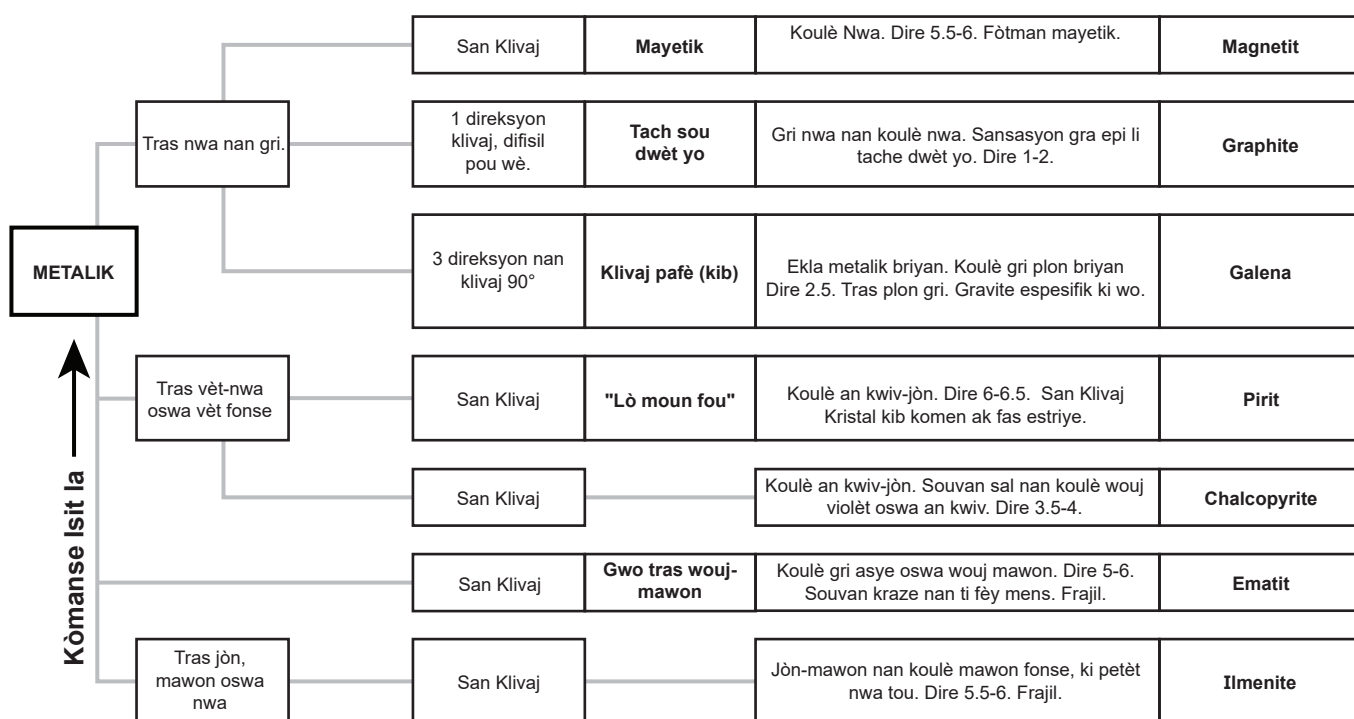
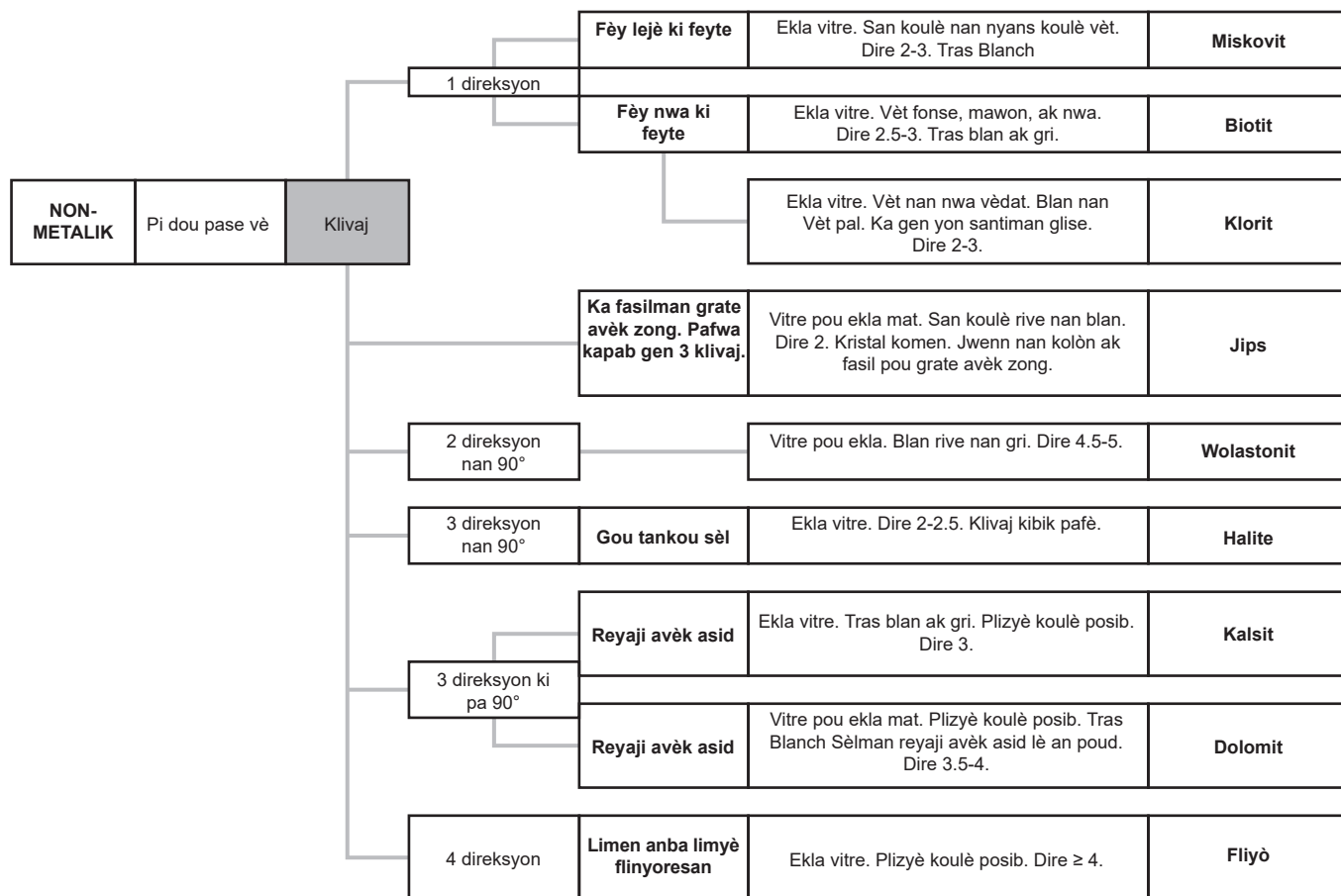
Echèl dire Mohs

| Direte | Non Mineral | Zouti |
|--------|-------------|---------------------|
| 10 | Dyaman | |
| 9 | Korendon | |
| 8 | Topaz | |
| 7 | Quartz | |
| 6 | Òrtoz | Tras plak |
| 5.5 | | Plak vè |
| 5 | Apatit | |
| 4.5 | | Kou an asye |
| 4 | Fliyò | |
| 3.5 | | Pyès monnen an kwiv |
| 3 | Kalsit | |
| 2.5 | | Zong dwèt |
| 2 | Jips | |
| 1 | Talk | |

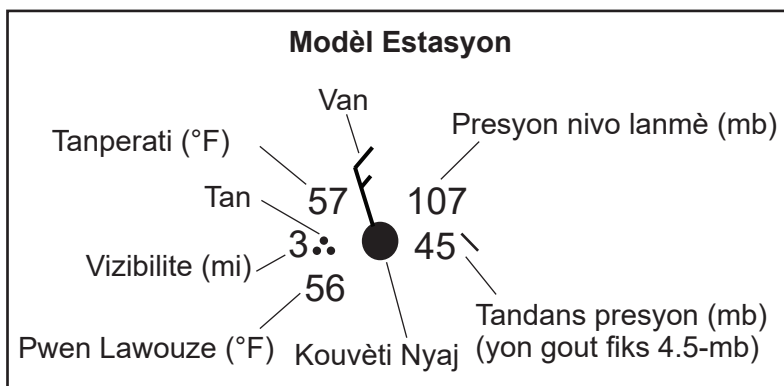
Òganigram Idantifikasyon Mineral



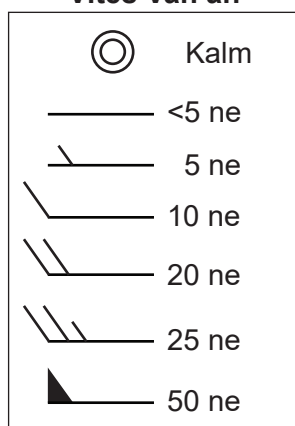
Òganigram Idantifikasyon Mineral (Kontinye)



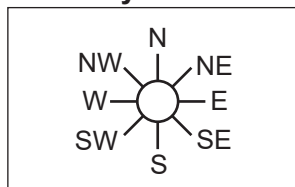
Kle nan Senbòl Kat Meteyowolojik



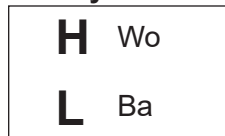
Vitès Van an



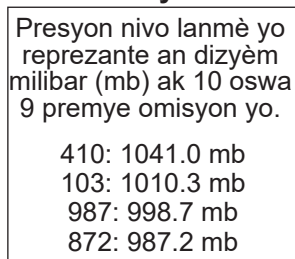
Direksyon Van an



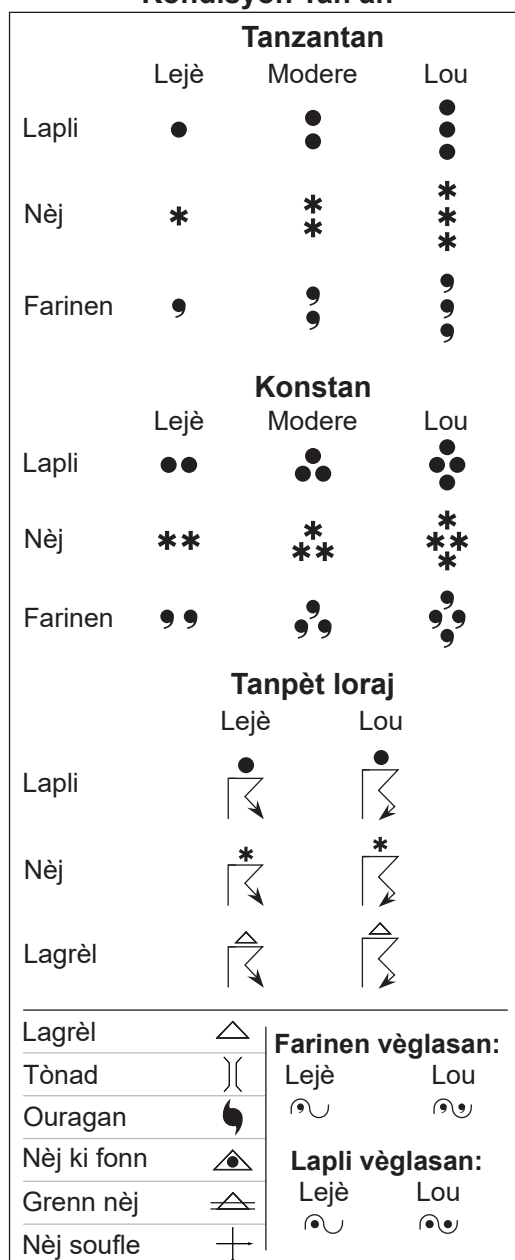
Presyon Lè a



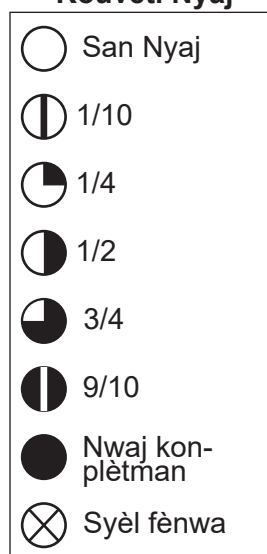
Presyon



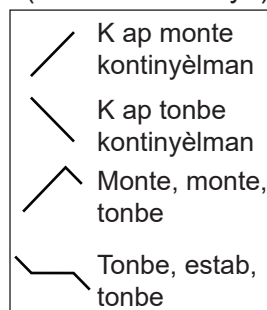
Kondisyon Tan an



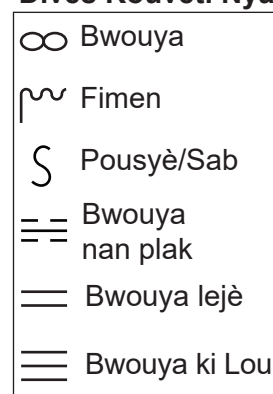
Kouvèti Nyaj



Tandans presyon (3 èdtan anvan yo)



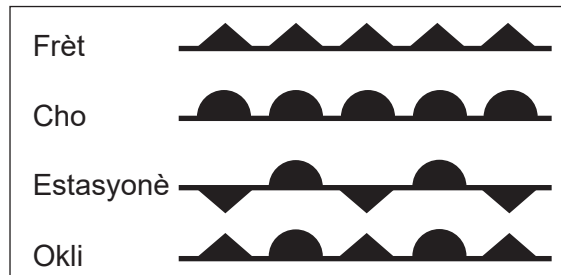
Divès Kouvèti Nyaj



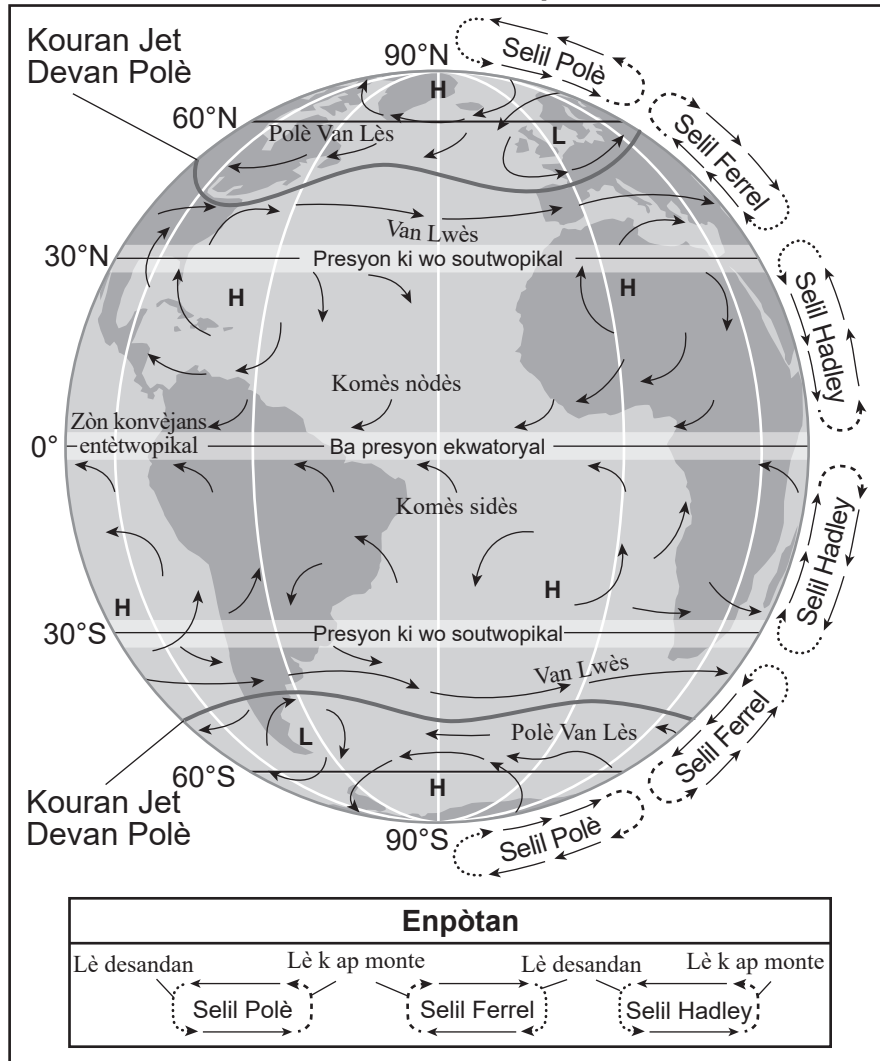
Douch



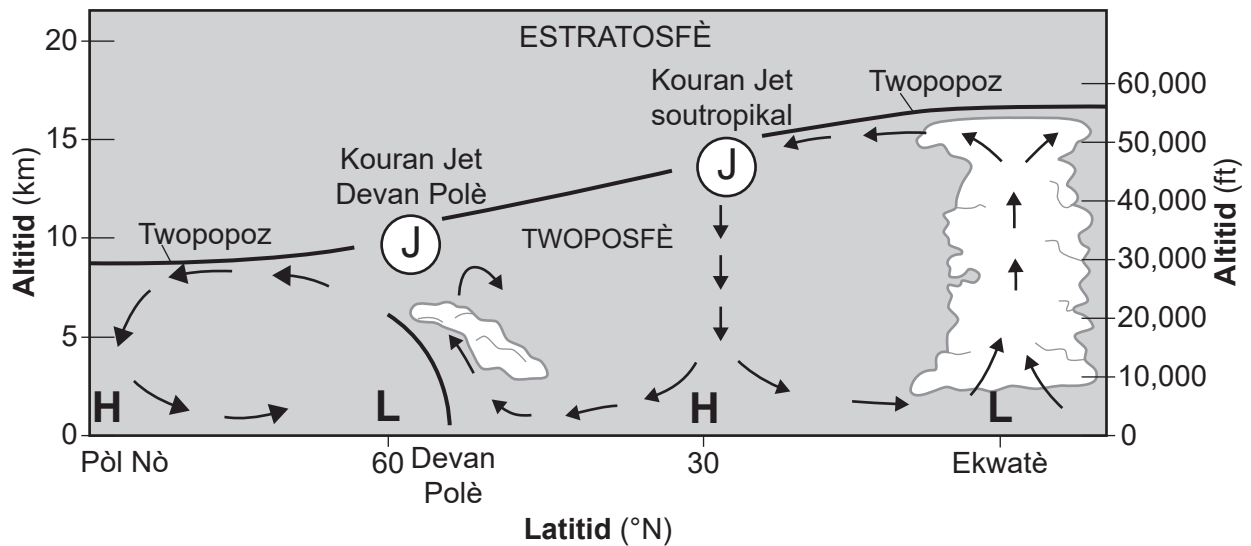
Fwon



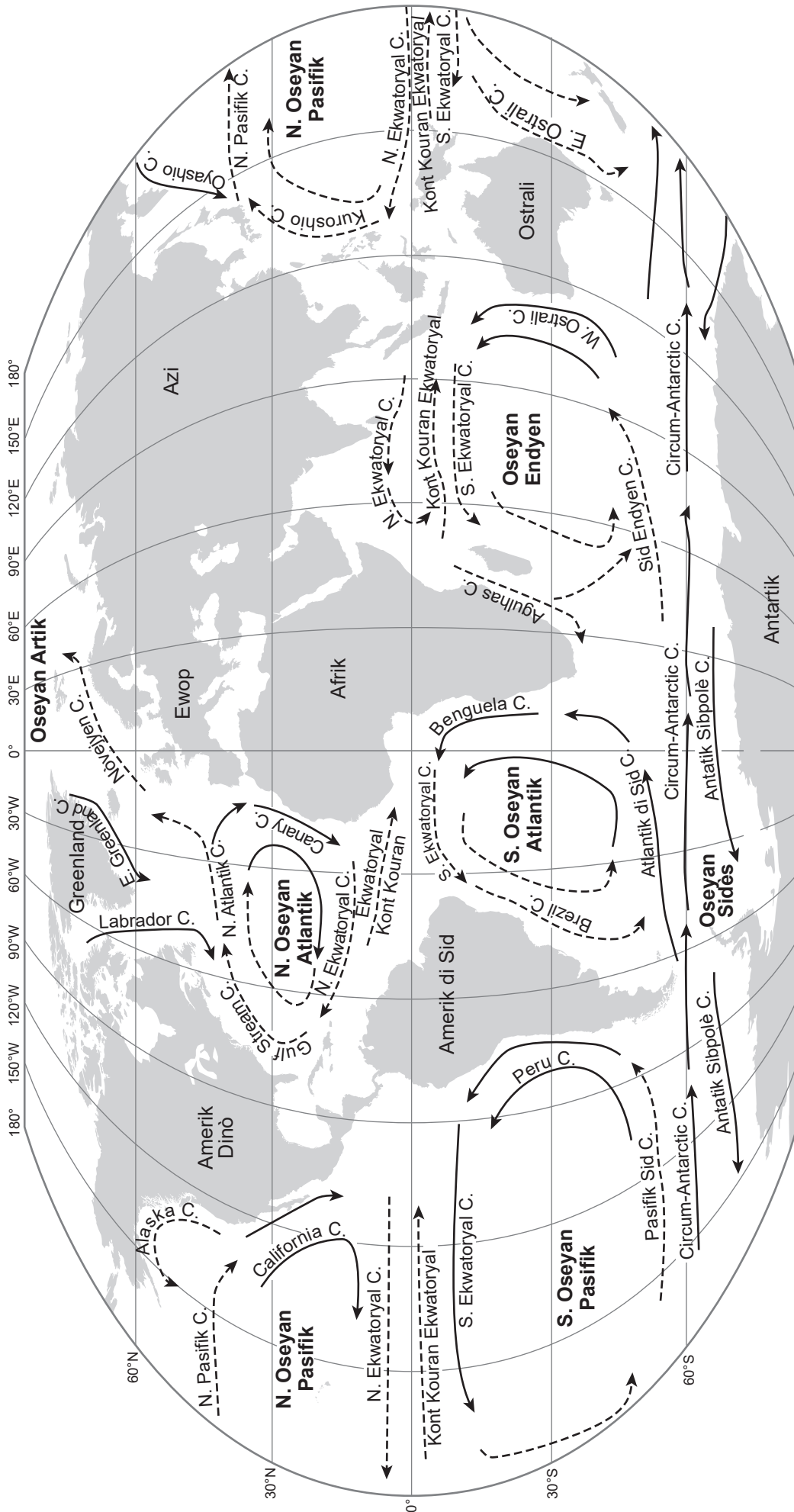
Modèl Sentiwon Van Planètè Jeneralize nan Twoposfè a



Modèl Koup Transvèsal Atmosfè pi ba Latè



Model Kouran Oseyanik nan Sifas



| Enpòtan | |
|---------|-------------|
| → | Kouran cho |
| - - - | Kouran frèt |