REPUBLIC OF NIGER
MINISTRY OF MINES
Fraternité-Travail-Progrès

LITHIUM POTENTIAL

ECOMOF 3rd EDITION

Niger has occurrences of pegmatites with spodumene and lepidolite.

LIPTAKO GOURMA OCCURRENCES

- In Liptako, spodumene pegmatites and lepidolite veins are found in different localities and units. Examples include:

- veins containing spodumene pegmatites with an area of about 3 km^2 discovered by Machens near Dibilo. Reserves were estimated at about 350,000 tons of 2% LiO_2 ore;

- veins of lepidolite and spodumene pegmatite in a serpentinite hill east of Dibilo, associated with chromite;

- in the Tialkam area, research has uncovered indices of lithium at proportions ranging from 3-58 ppm.

The lithium potential of North Liptako is represented by four indices of pegmatites with spodumene and incidentally with lepidolite.

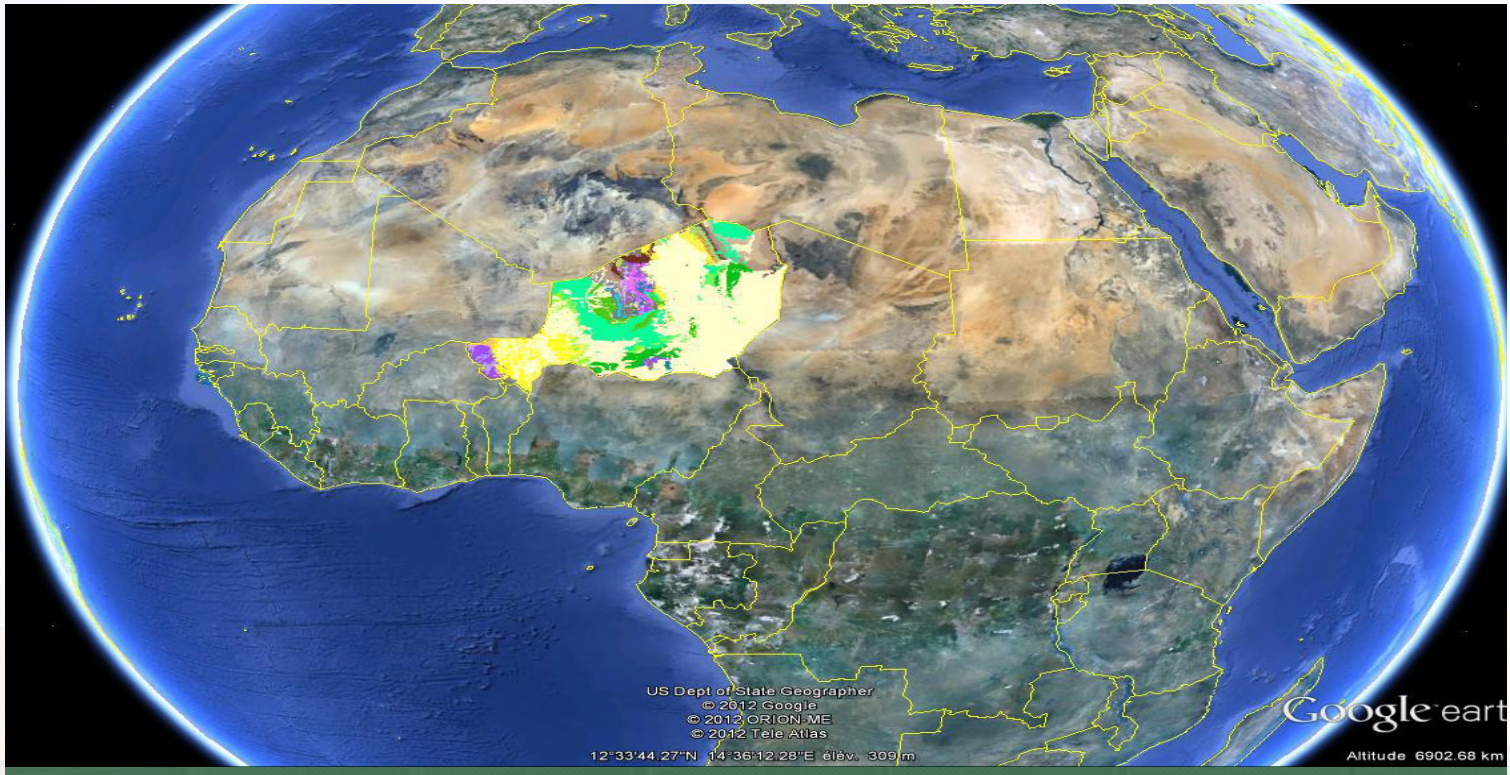
These clues are presented in clusters or veins intersecting the cement or located near the contact between the belt of green rocks of the furrow of Téra and the granite massif of Téra-Ayorou.

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Tel: (+227) 20732899 Fax: (+227) 20731810
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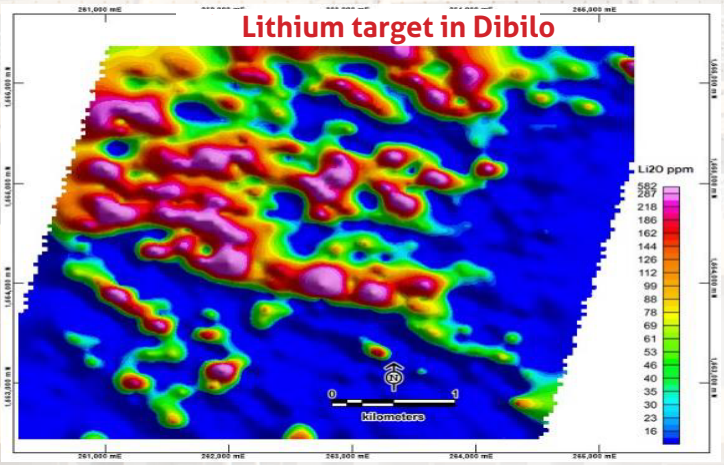




Location of the Lithium potential in Aïr and Liptako in Niger

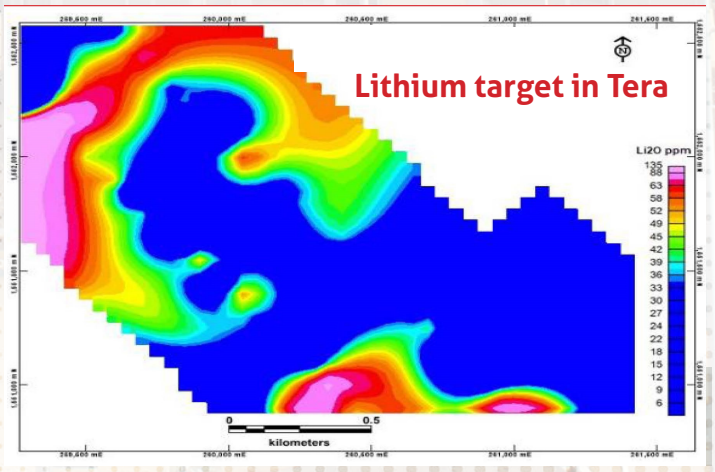
CARACTERISTICS

Lepidolite titrates between 0.5 and 3.6% of LiO_2 and can constitute up to 30% of the volume of veins in some cases.



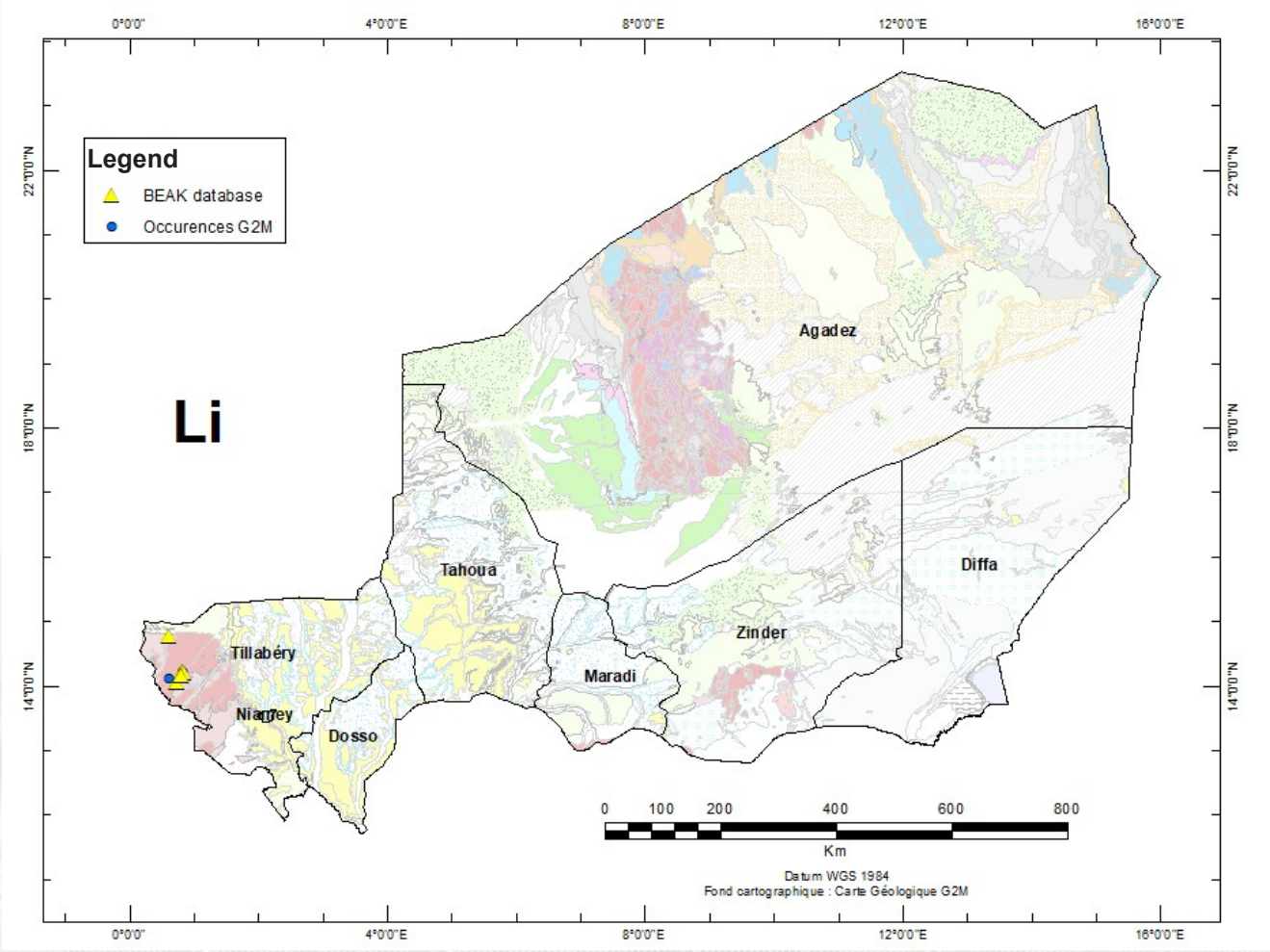






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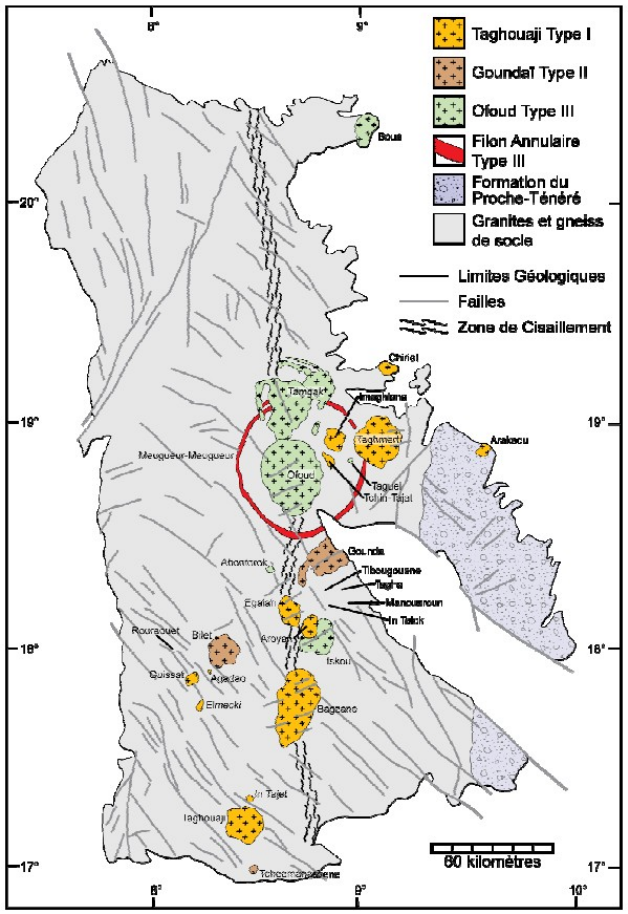


OPPORTUNITIES

In the Dibilo area, three (3) veins out of the eighteen (18) identified were sampled. Assuming a rooting of 50 m and a density of 2.8 of the ore, the results are as follows:

- Vein N° I : 70.000 t at 1,4 % LiO_2
- Vein N° 9 : 54.600 t at 2,7 LiO_2
- Vein N°I5 : 42.000 t at 2,05 % LiO_2

In total we estimate the reserves of these 18 veins between 300,000 and 350,000 tons of lithium ore at a grade between 1.4% and 2%.



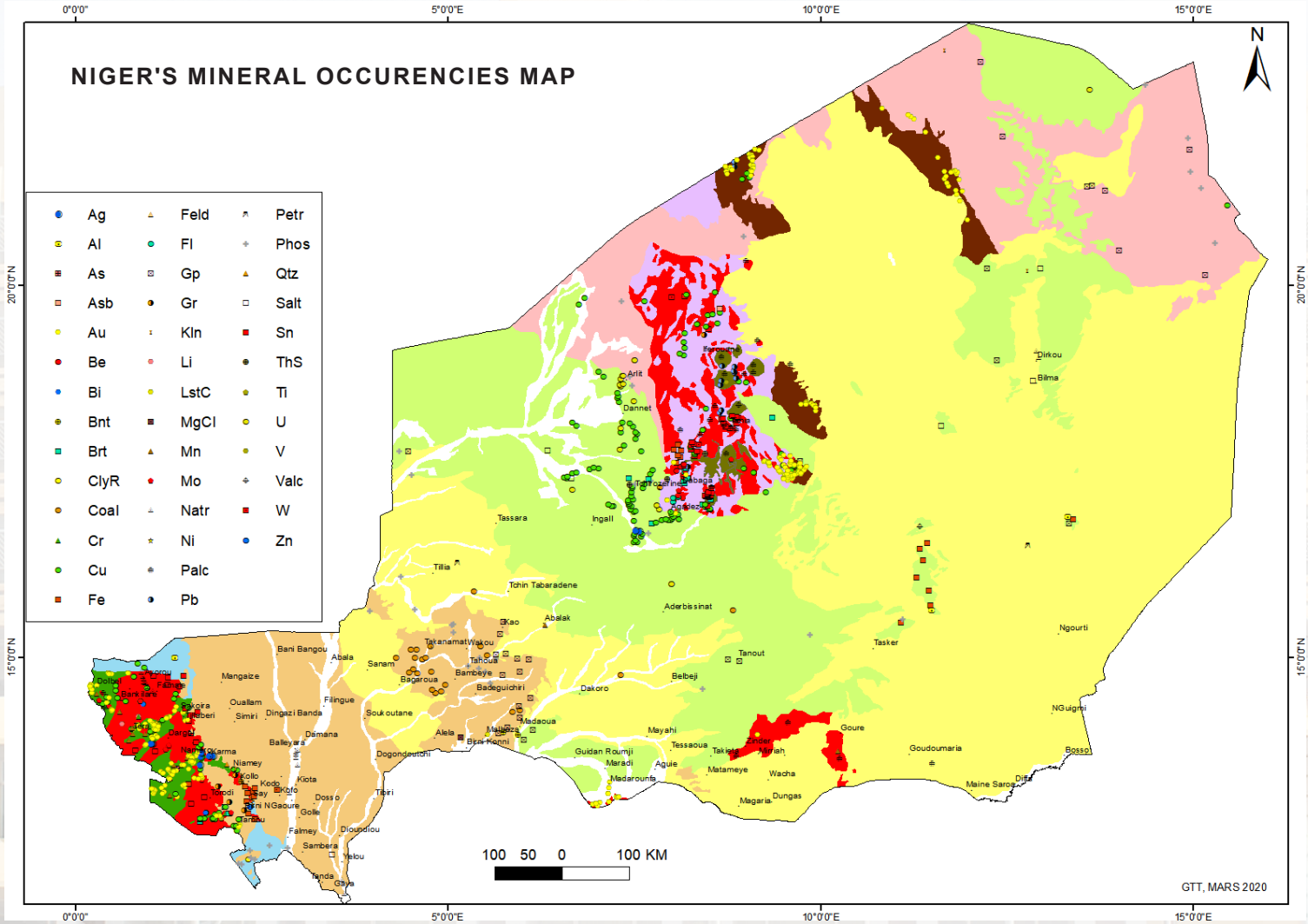
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LITHIUM OCCURRENCES OF THE AÏR MASSIF

In the Aïr lithium is bound to the stanniferous mineralization and wolframite to Sn-W hosted in the granites.

The Massif de l'Aïr with its annular intrusions also constitutes a potential in Lithium.



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