

# Carrières du Treuil – Forêts de Calamites

Grand Eury – Recherches géobotaniques sur les forêts fossiles.

Pl. I.

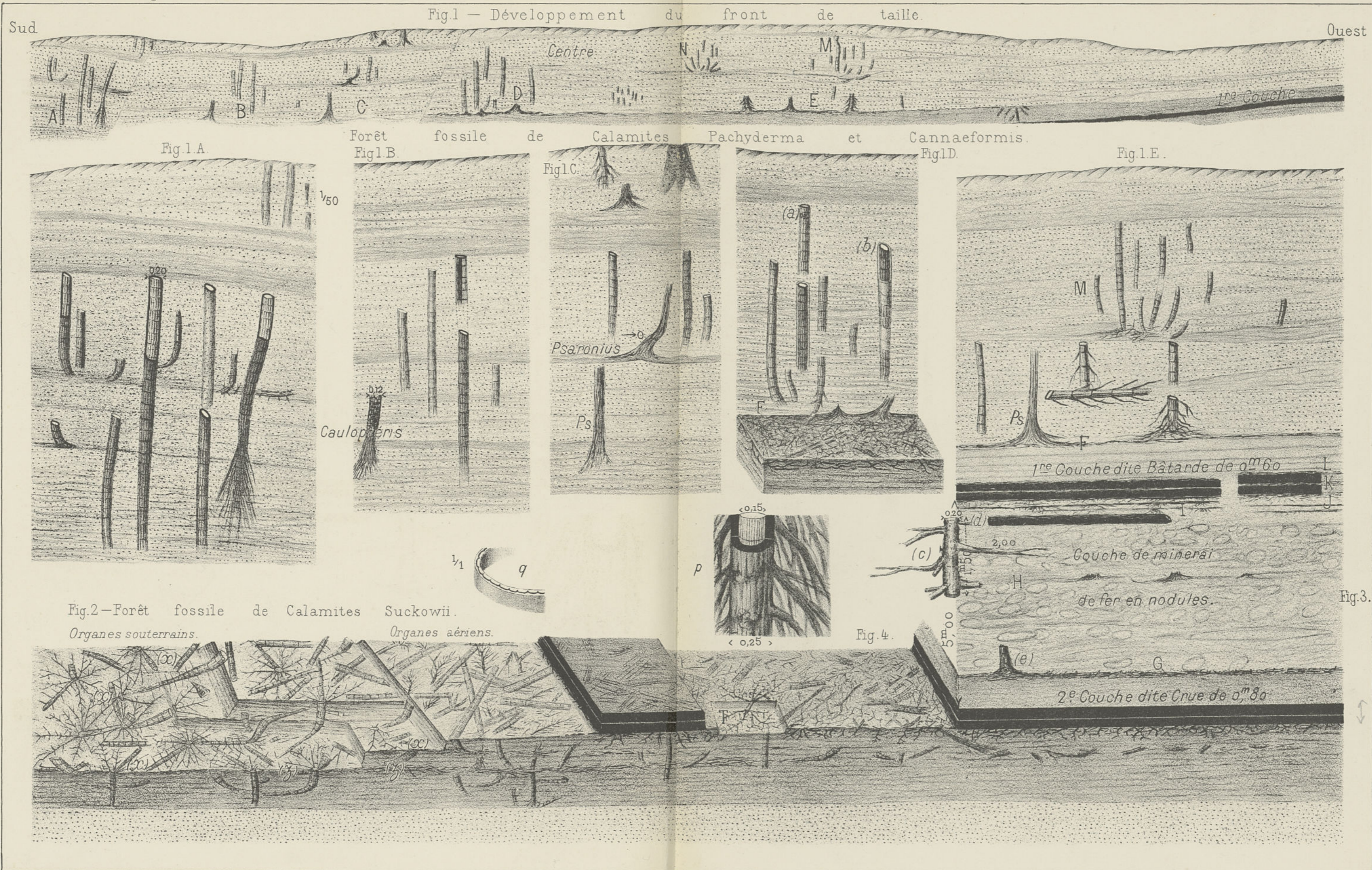


Fig. 2 – Forêt fossile de Calamites Suckowii.  
Organes souterrains. Organes aériens.

Fig. 3.

Fig. 4.

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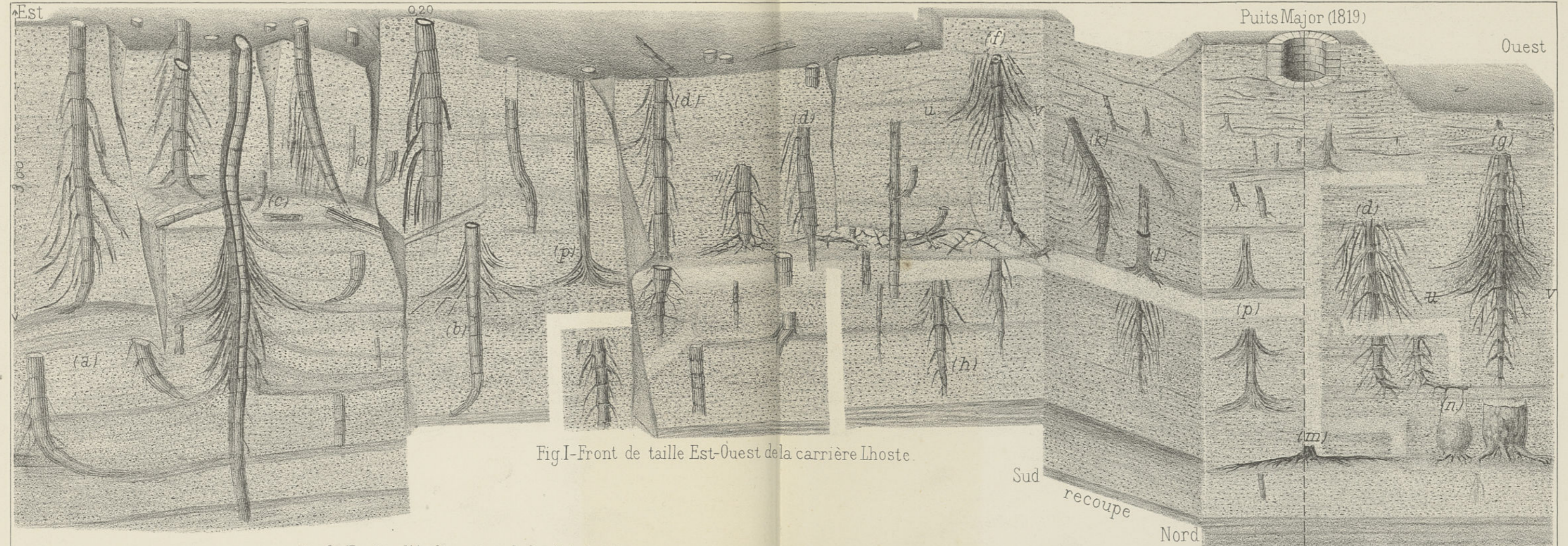


Fig. 1-Front de taille Est-Ouest de la carrière Lhoste.

Fig. 2-Forêts d'Arthropitus de la guinguette.

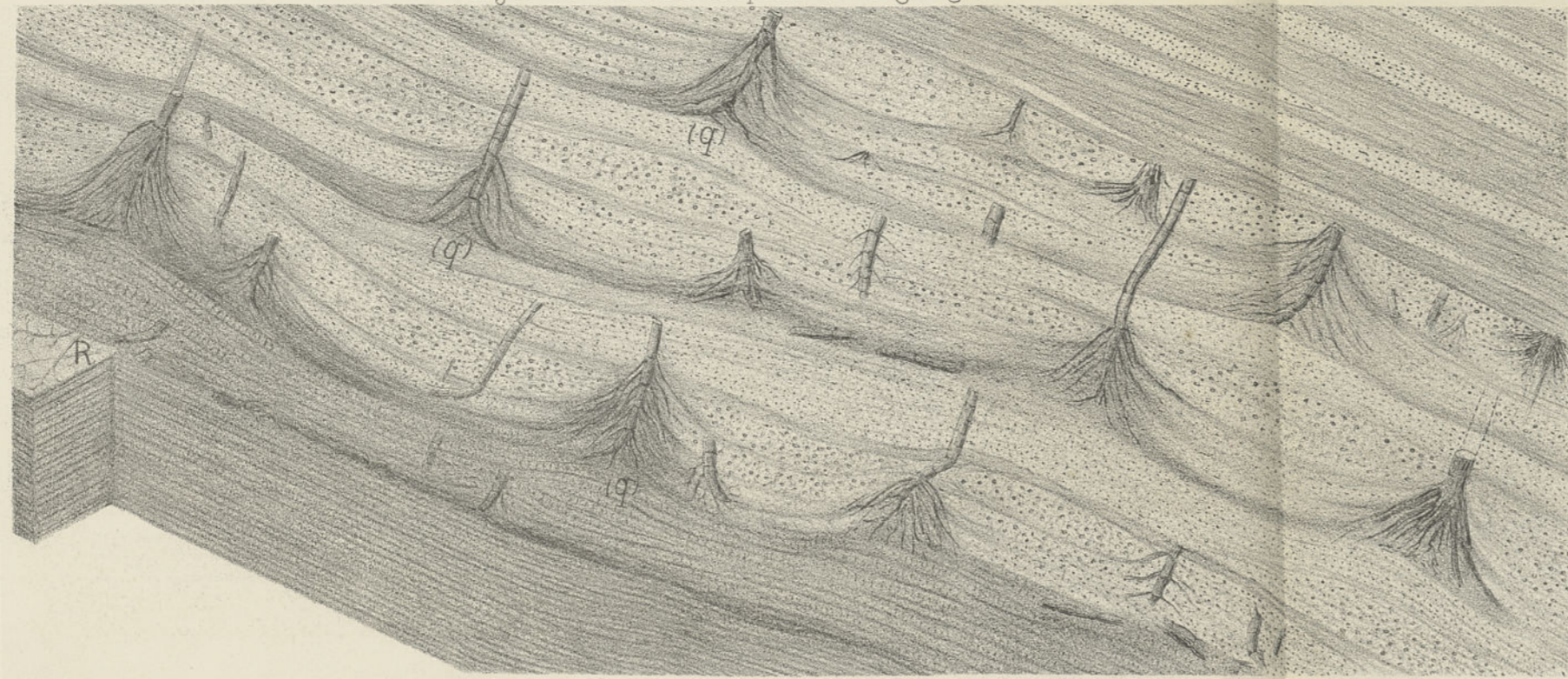
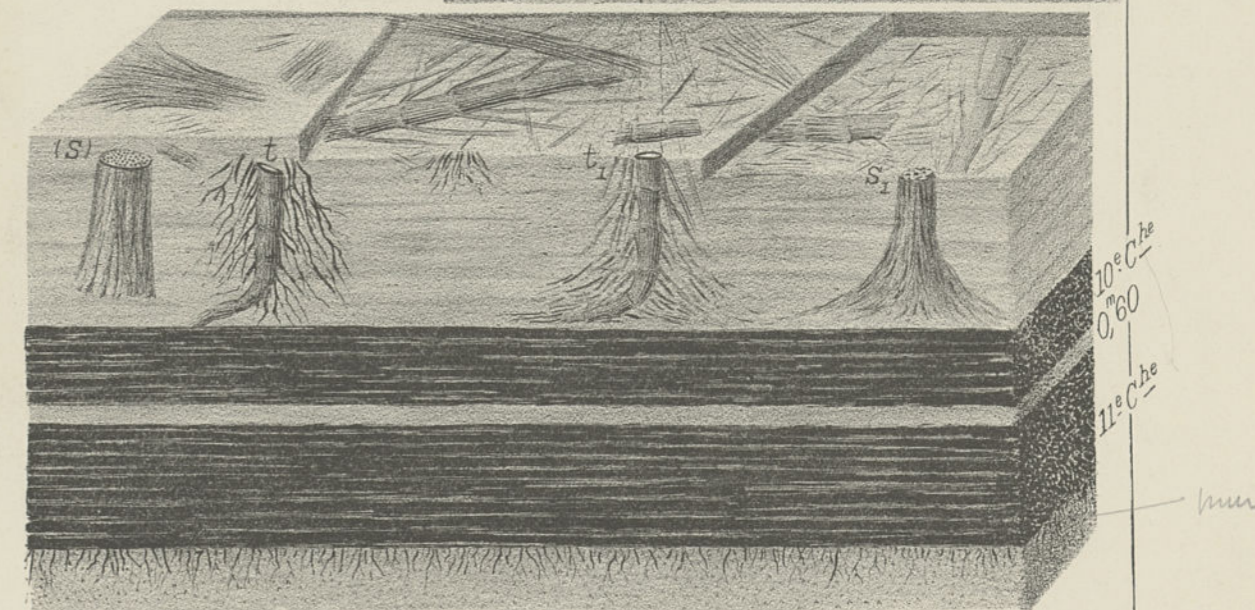


Fig. 3. Forêt Fossile du toit de la 10<sup>e</sup> couche au Treuil.



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Fig.1-Roche-la-Molière, à l'Est du puits Dolomieu. Forêt de Psaronius, de Calamites et de Calamodendron.

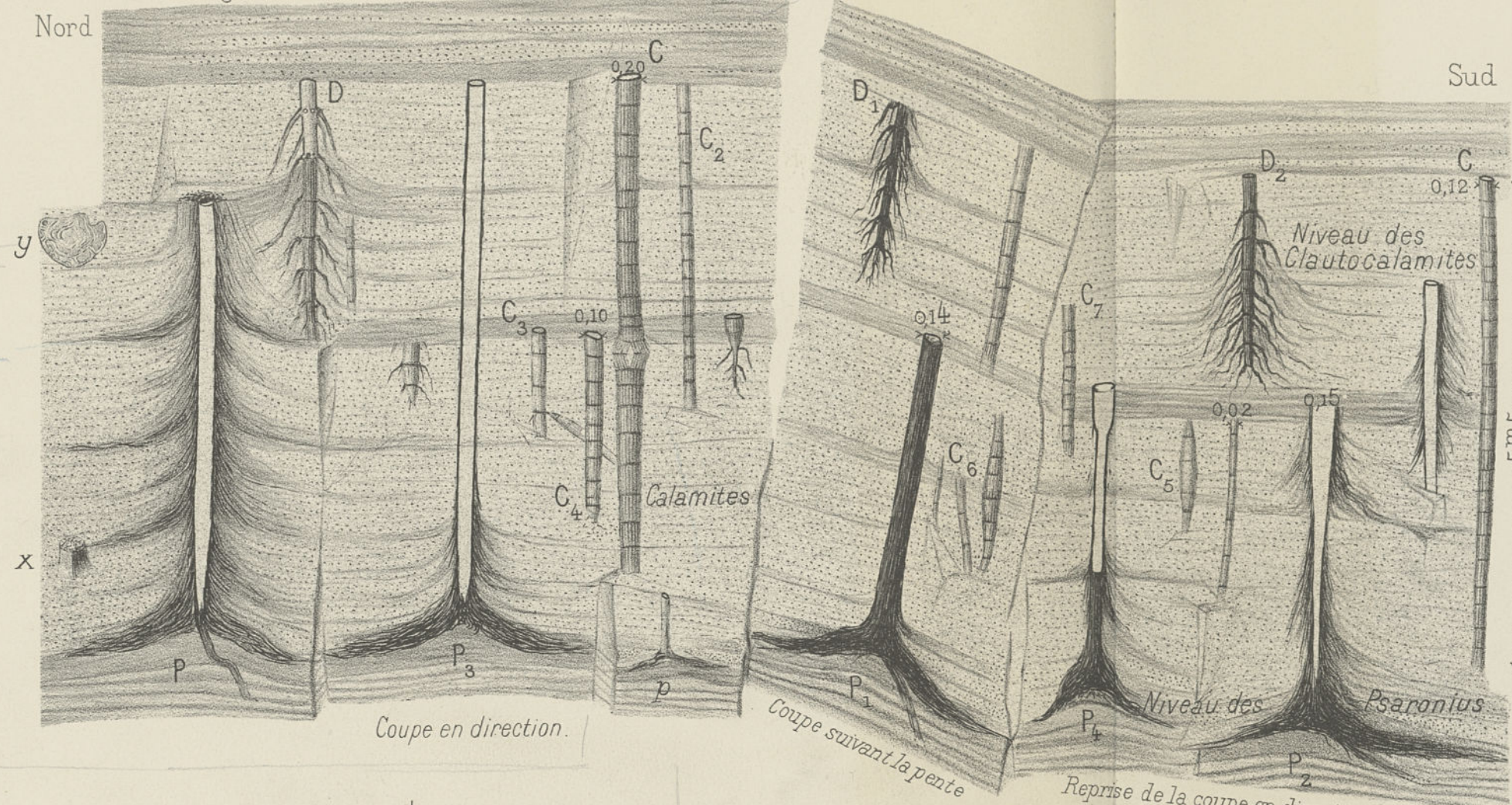


Fig.2 - Roche-la-Molière aux abords du puits de la Girardière ; Forêt de Calamites souterraines

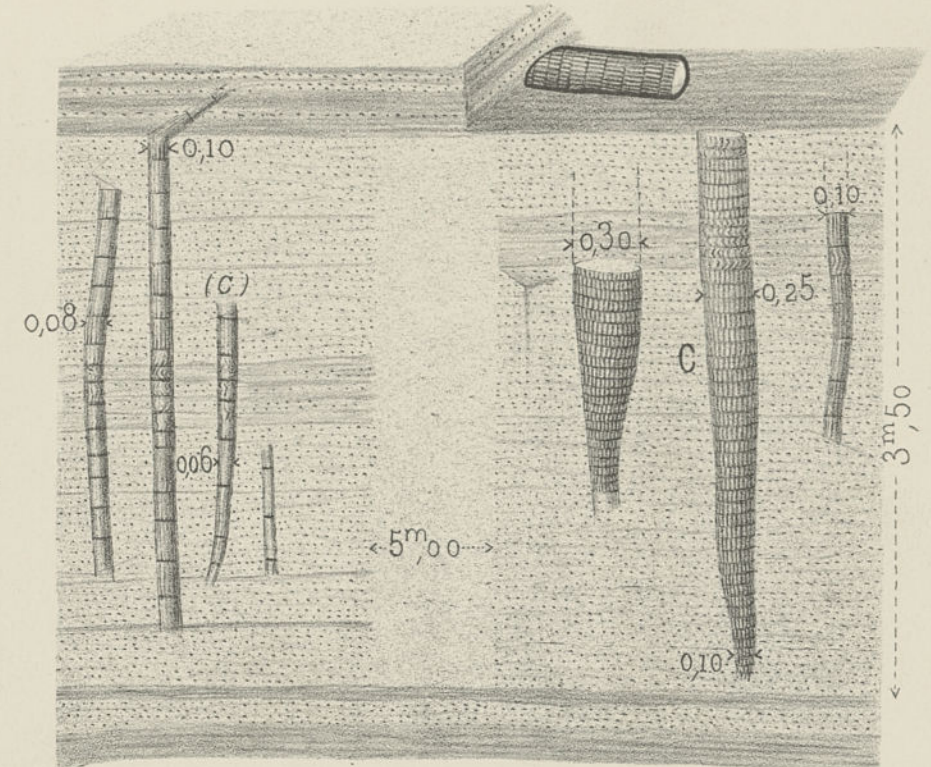


Fig.3 - S<sup>t</sup>Eloy et la Bouble ; Forêt de Psaronius de Calamites et de Calamodendron.

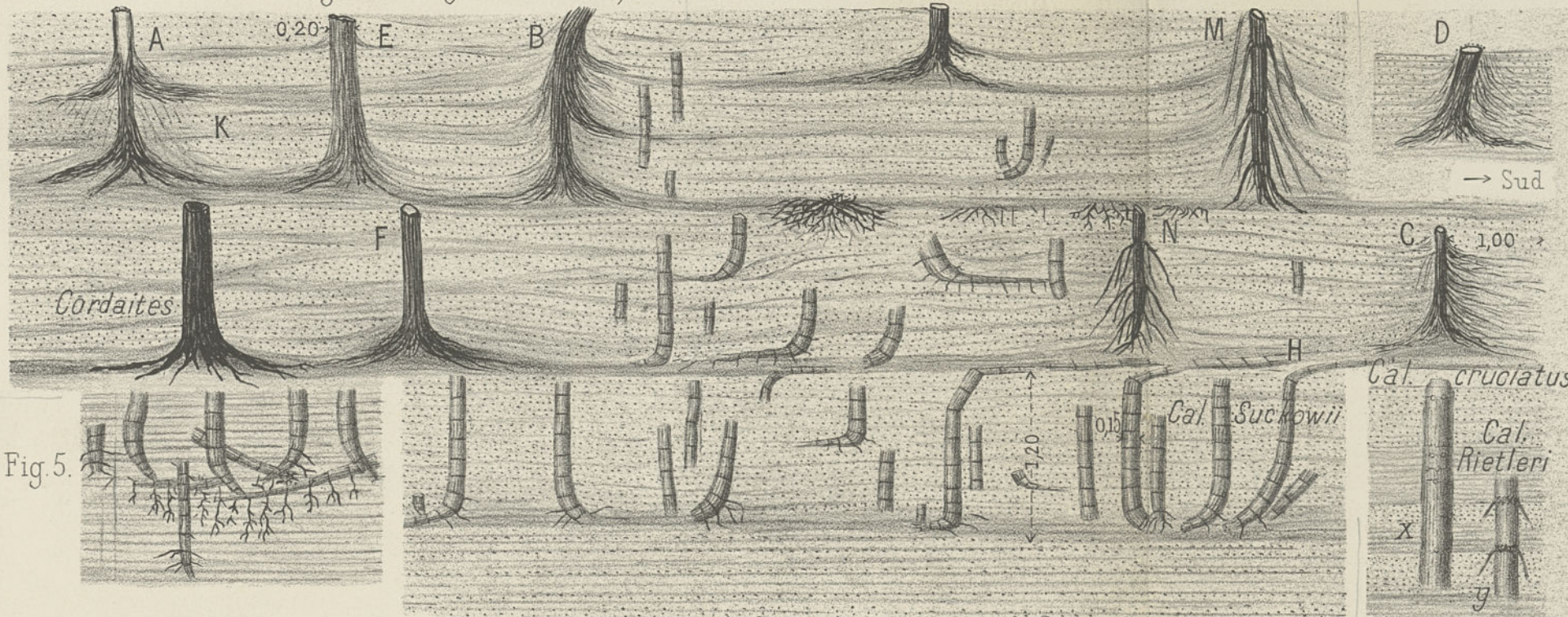


Fig.4. Forêt de Psaronius, de Calamites.

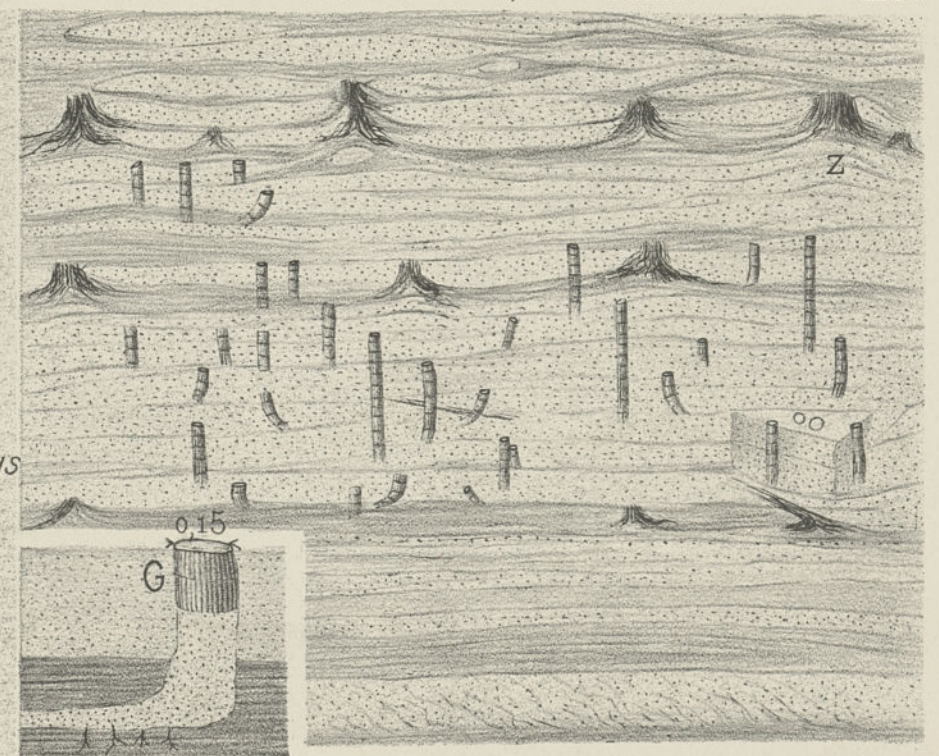


Fig.1-Forêts et sols fossiles de végétation.

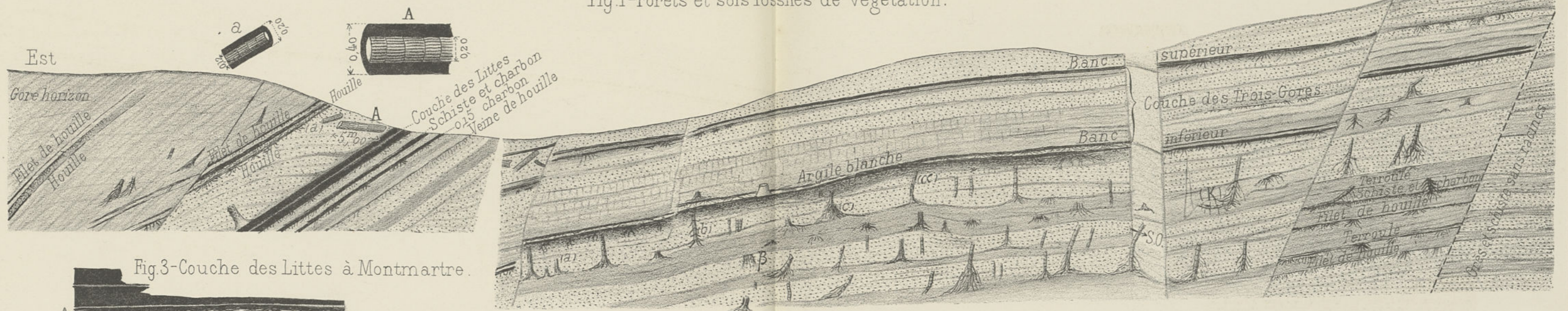


Fig.3-Couche des Lites à Montmartre.

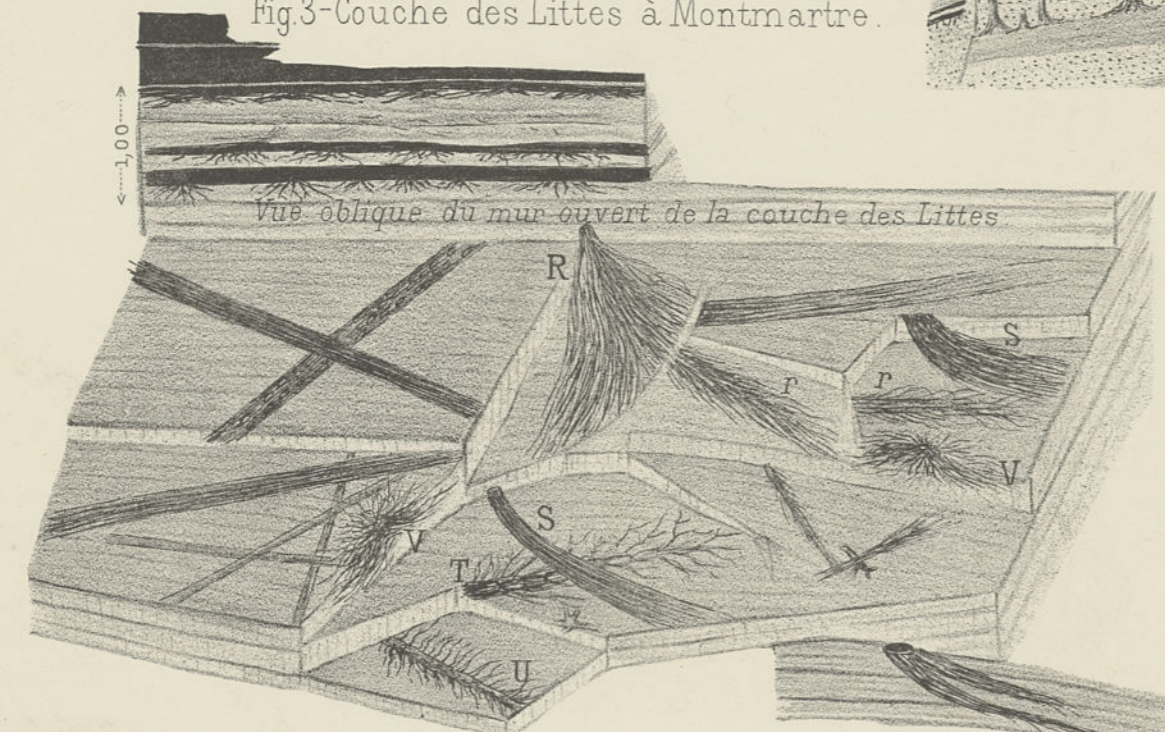


Fig.2-Circonstances de gisement de quelques tiges enracinées.

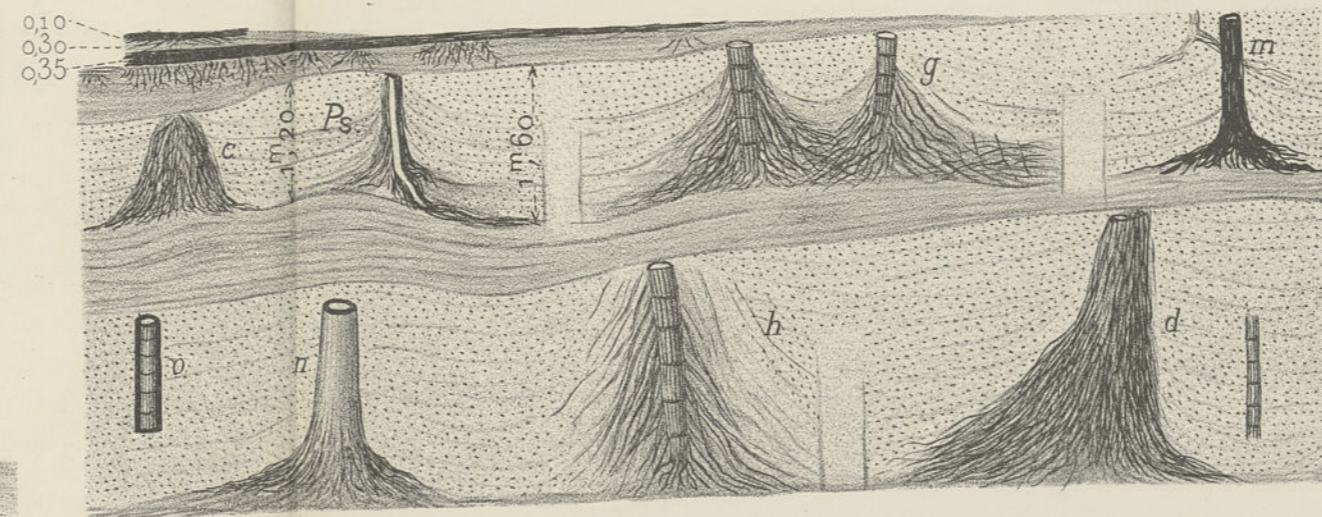


Fig.5 - Coupe Nord-Sud du mur de la couche des Lites à Montrambert.

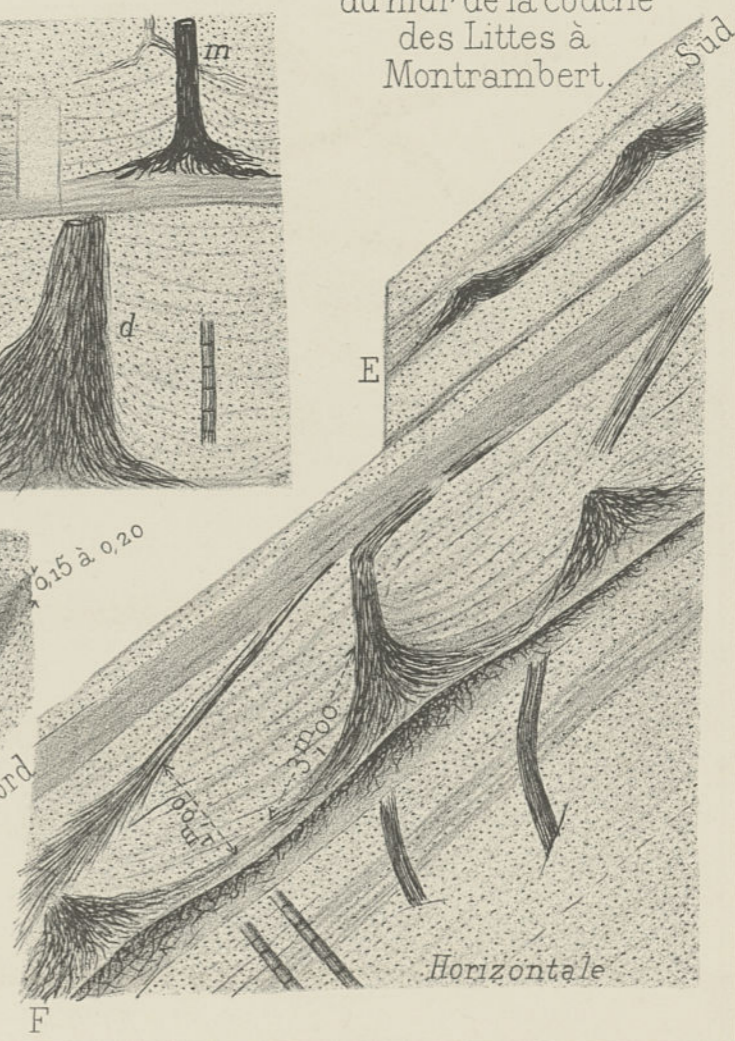
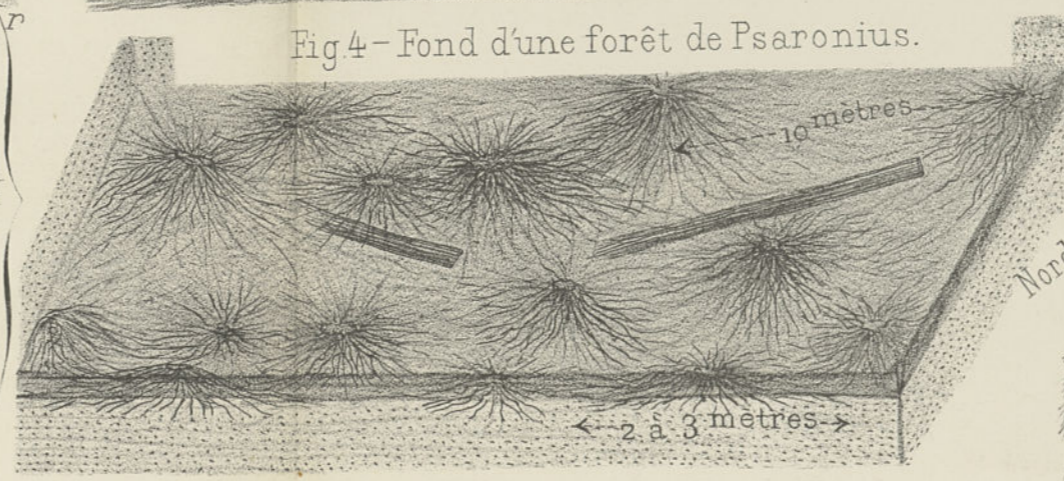
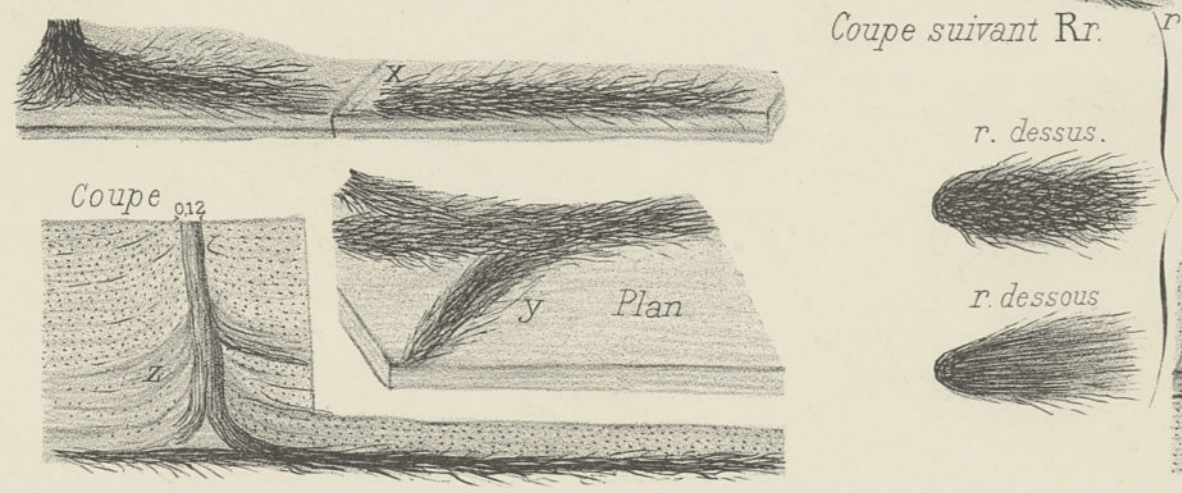


Fig.4-Fond d'une forêt de Psaronius.



Coupe suivant Rr.



Forêts fossiles de Cordaites.  
("Le Marais-L'Éparre")

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Pl. V.

Fig. 2 - Forêt fossile du Marais.

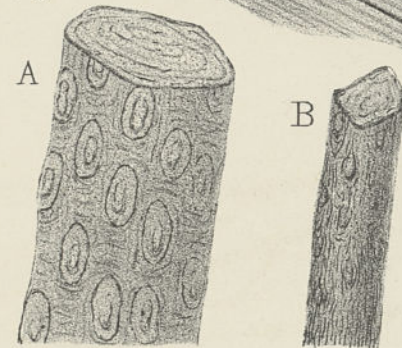
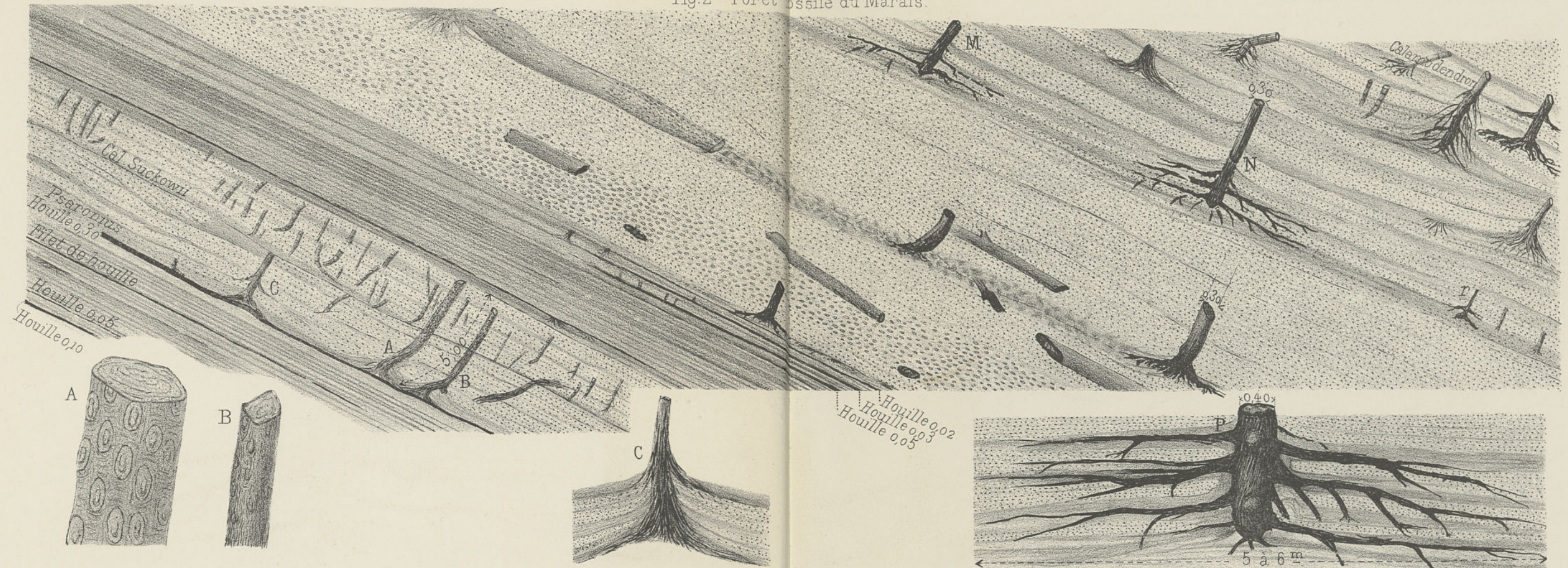


Fig. 3.

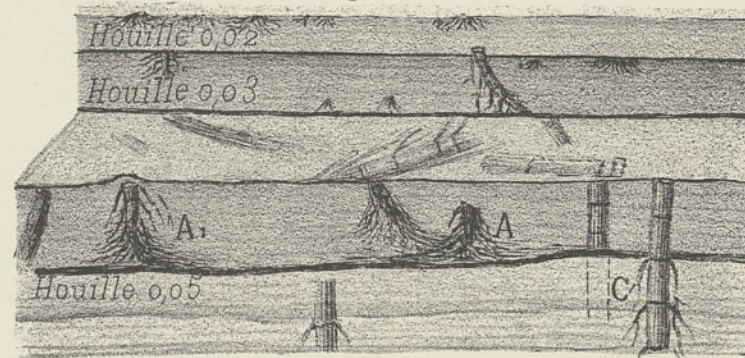


Fig. 4 - Charbon d'Aléthropteris Grandini.

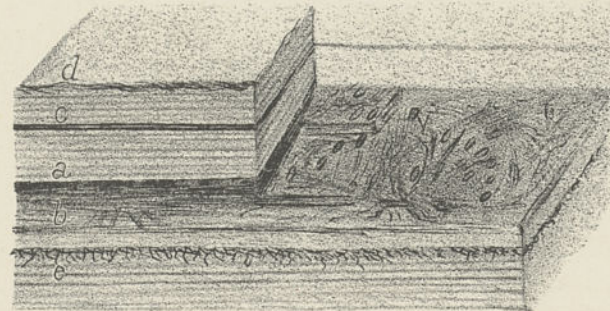
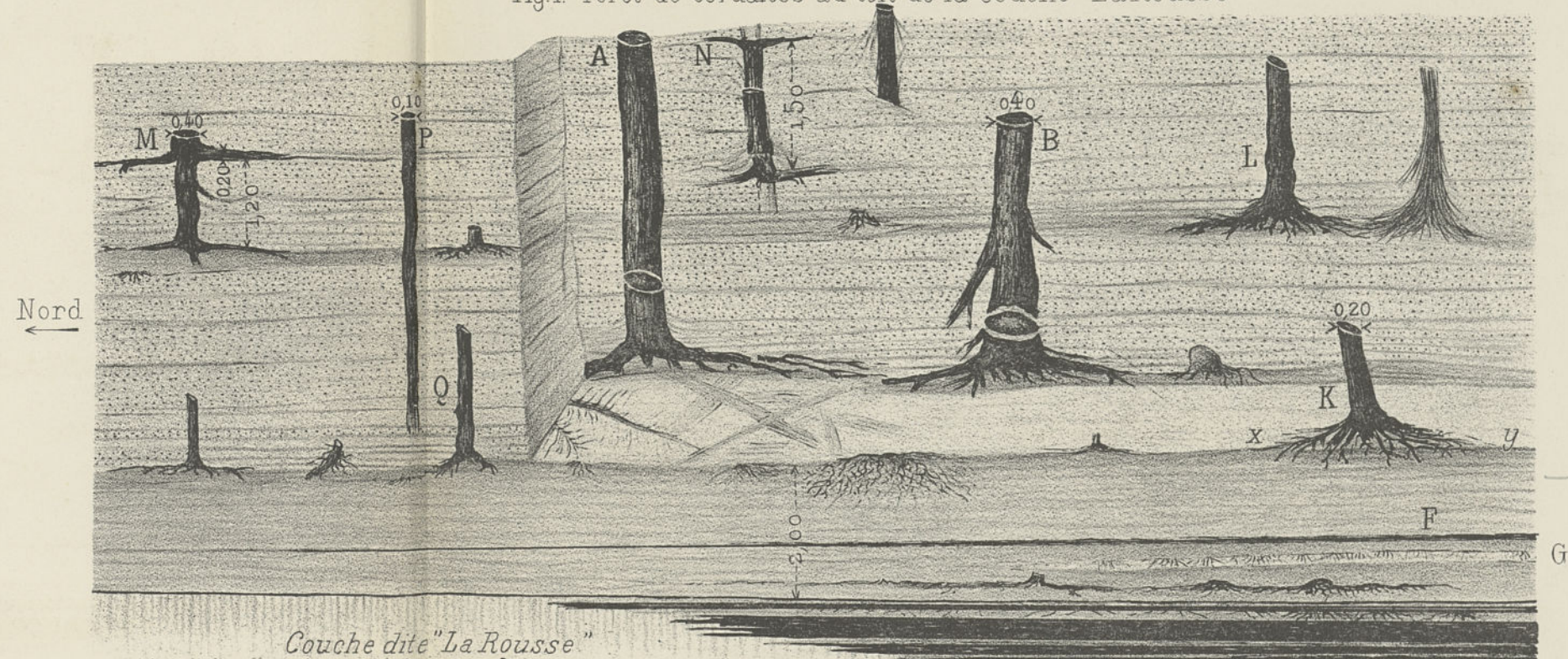


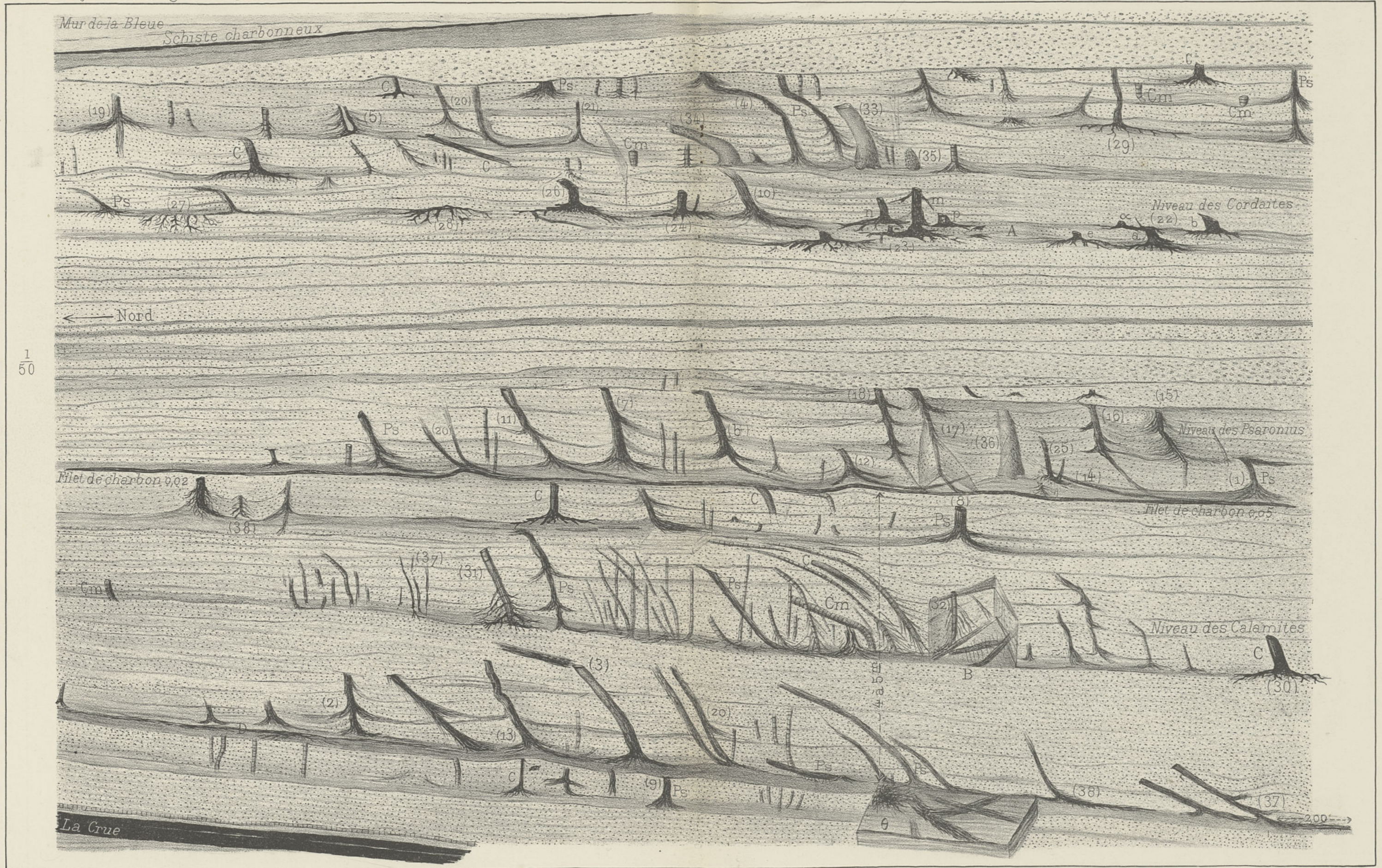
Fig. 1 - Forêt de Cordaites au toit de la couche "La Rousse"



Forêt fossile multiple de l'Eparre.

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Pl. VI.



# Forêts fossiles des Chaumières.

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Pl. VI<sup>bis</sup>

Fig 1.



Fig. 2.

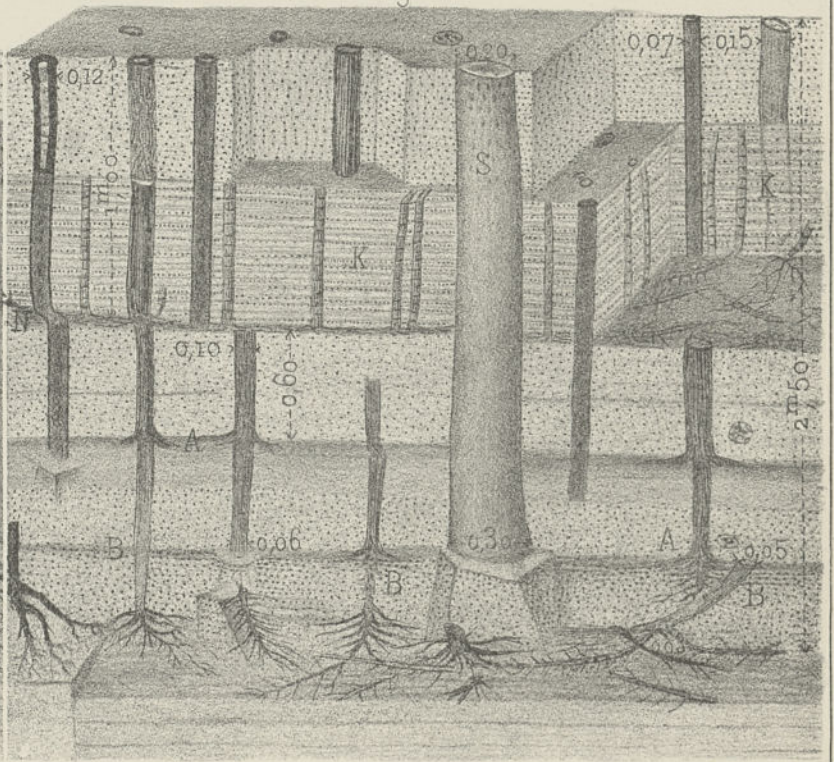


Fig. 3.



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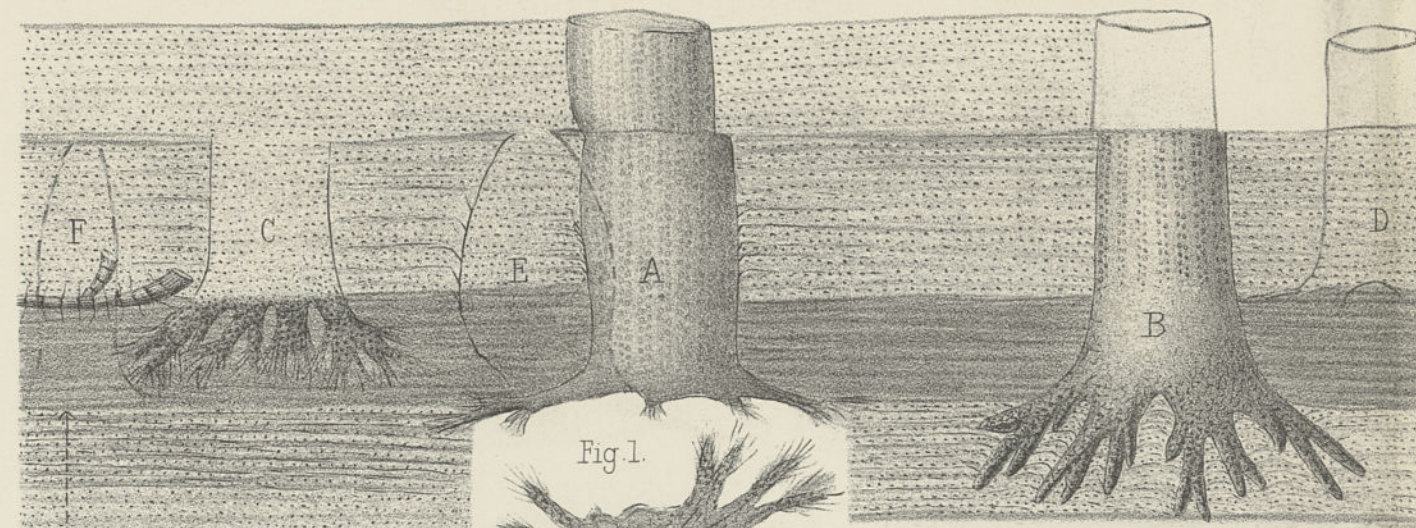


Fig. 1.

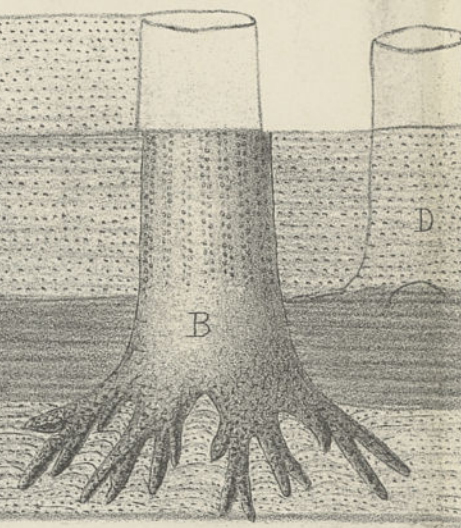


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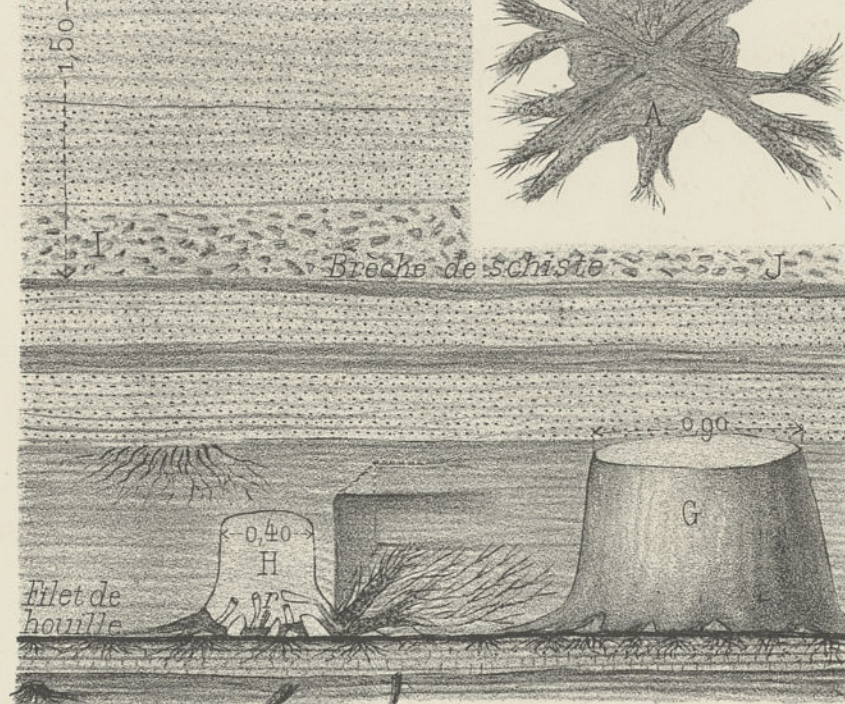


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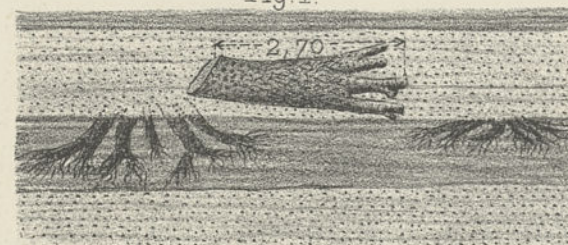


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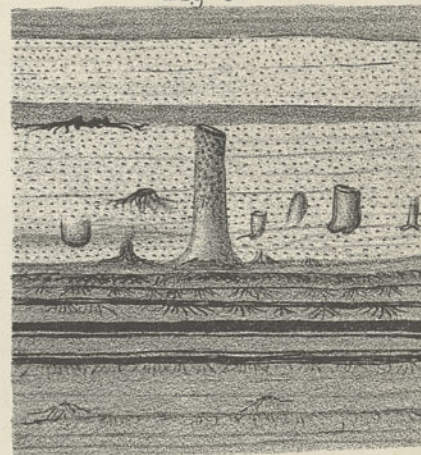


Fig. 5.

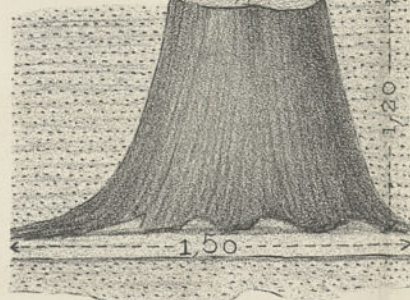


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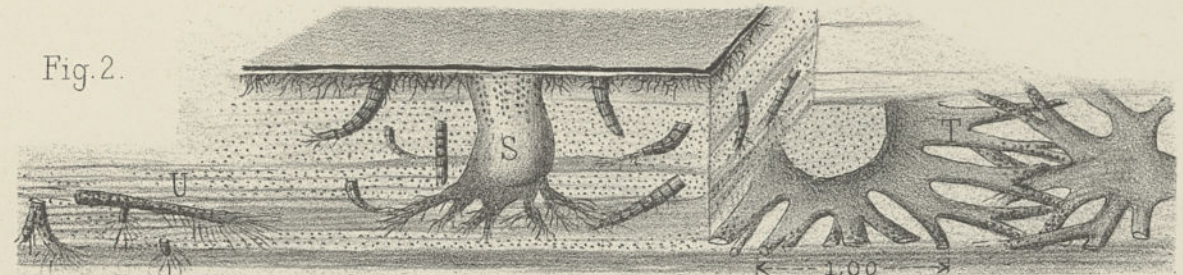


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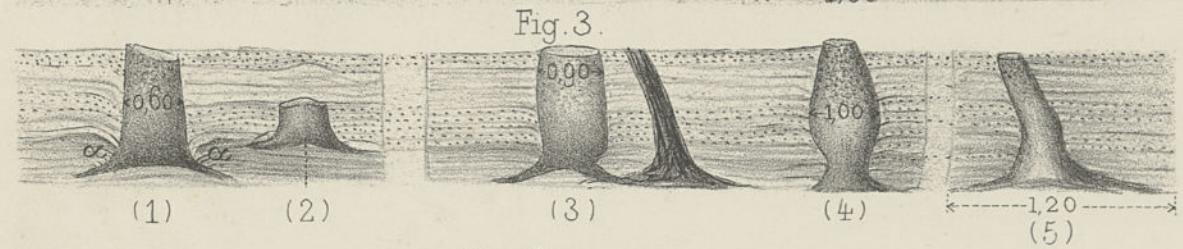


Fig. 3.

Fig. 7.

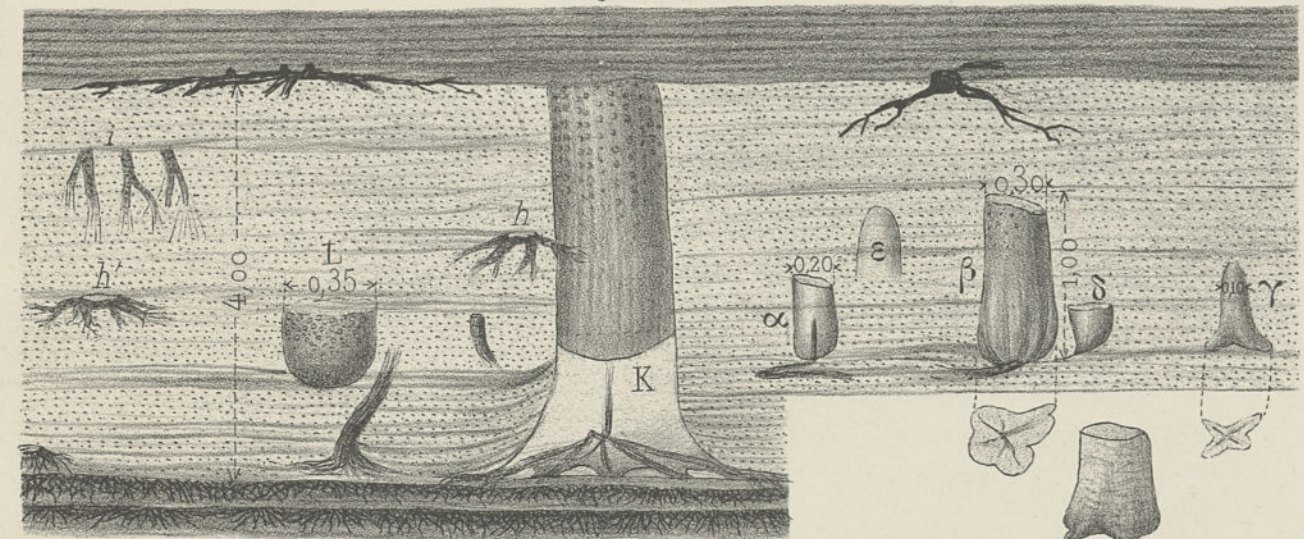


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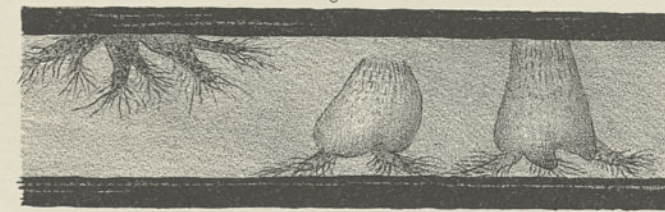


Fig. 10.

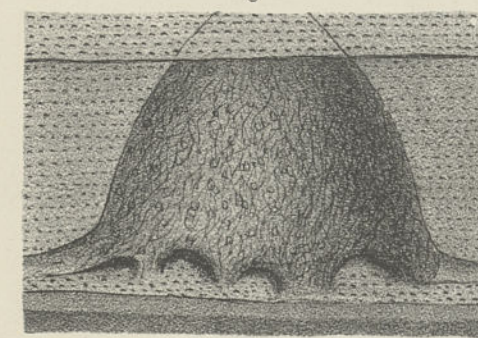


Fig. 9.

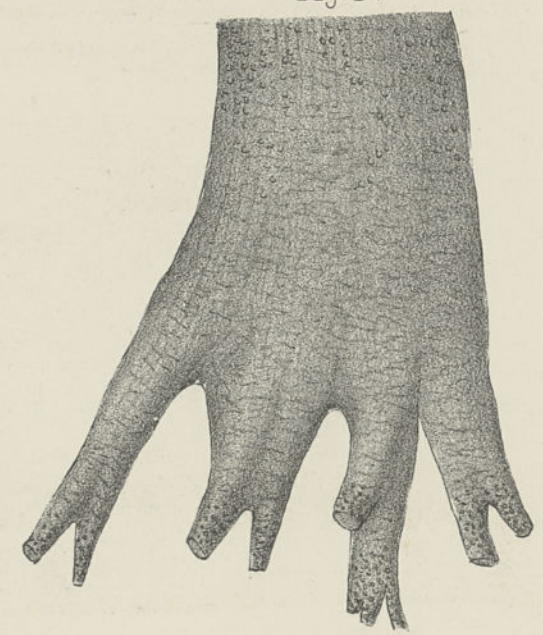
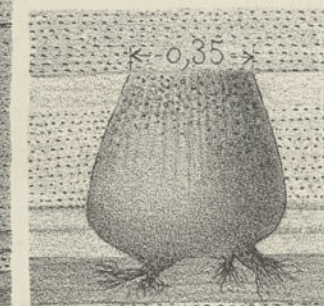


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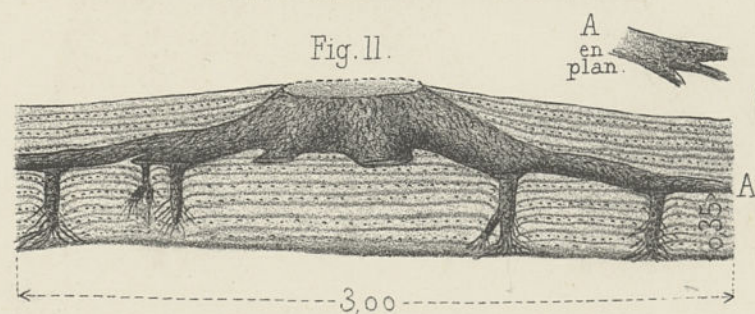
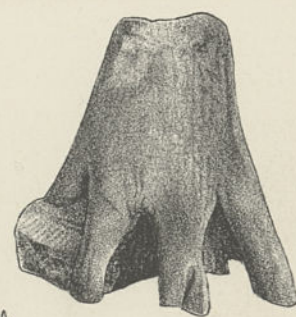
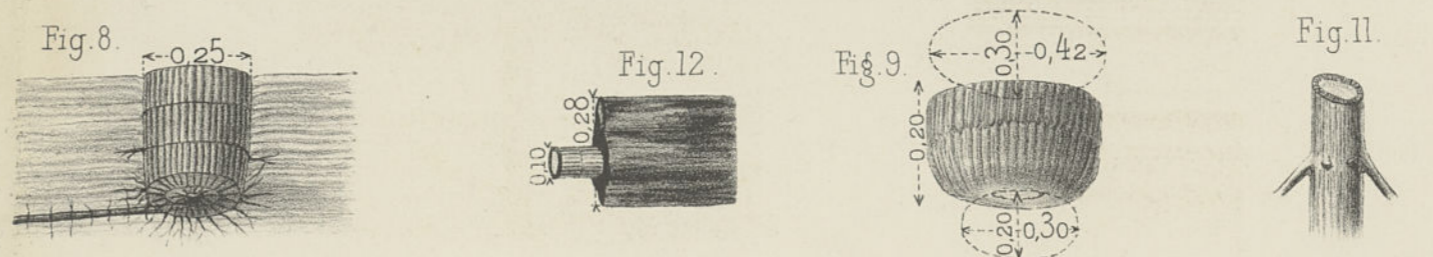
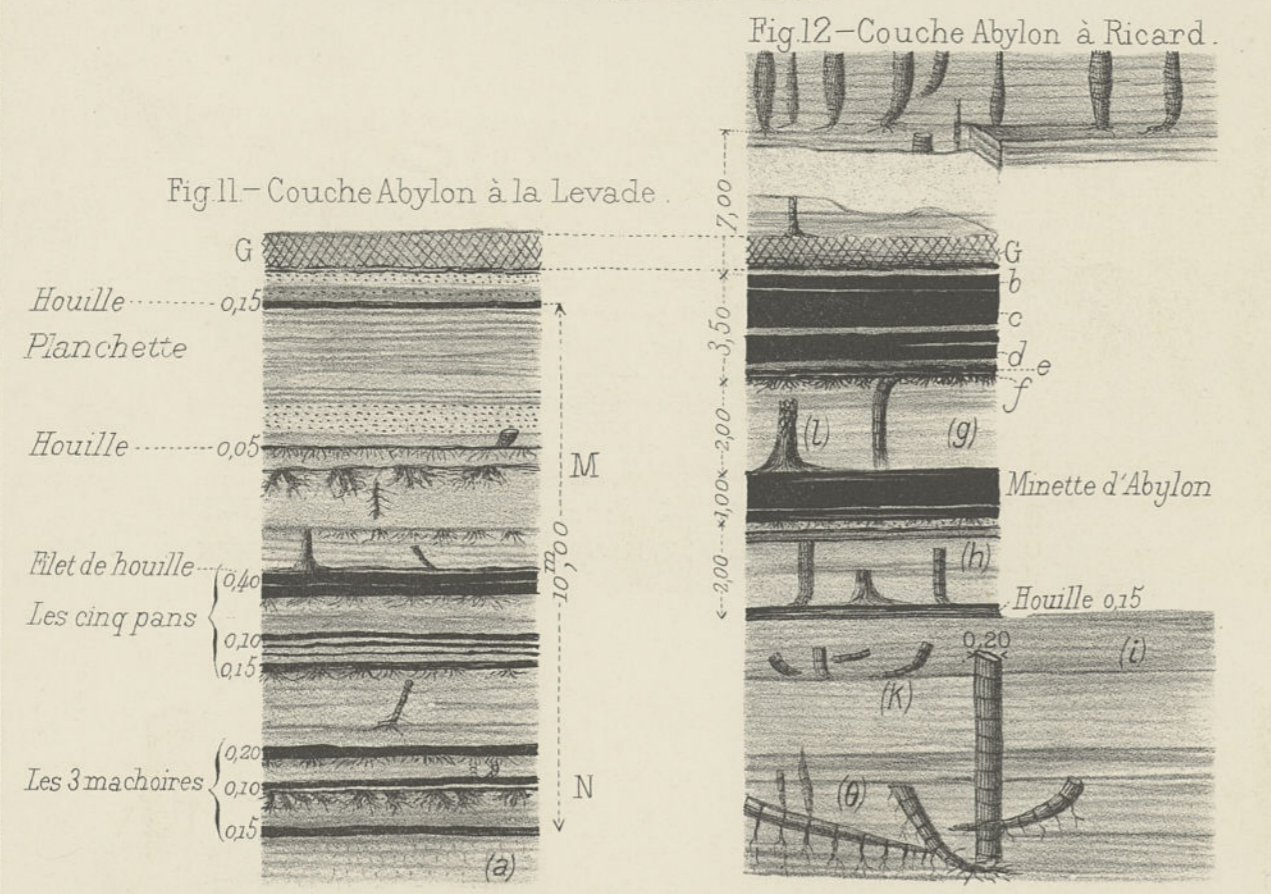
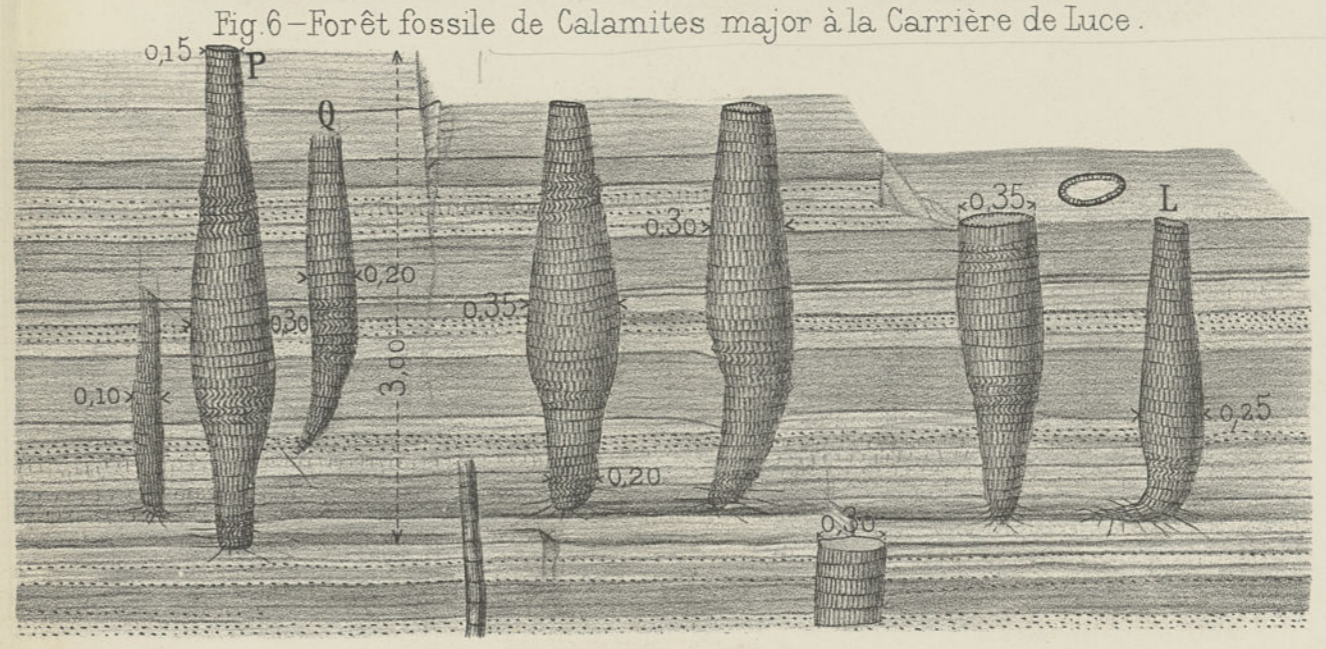
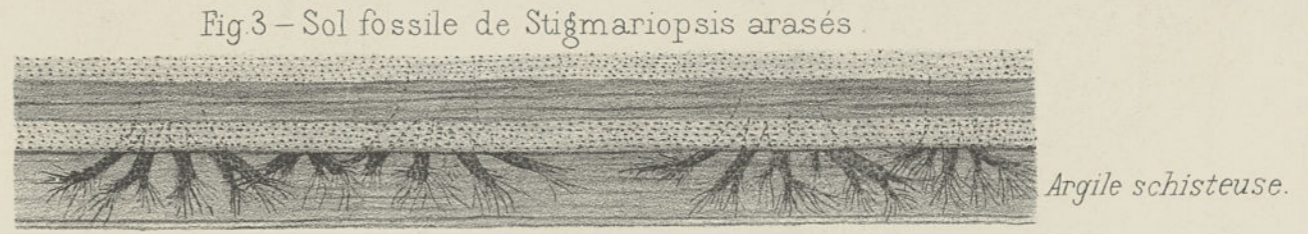
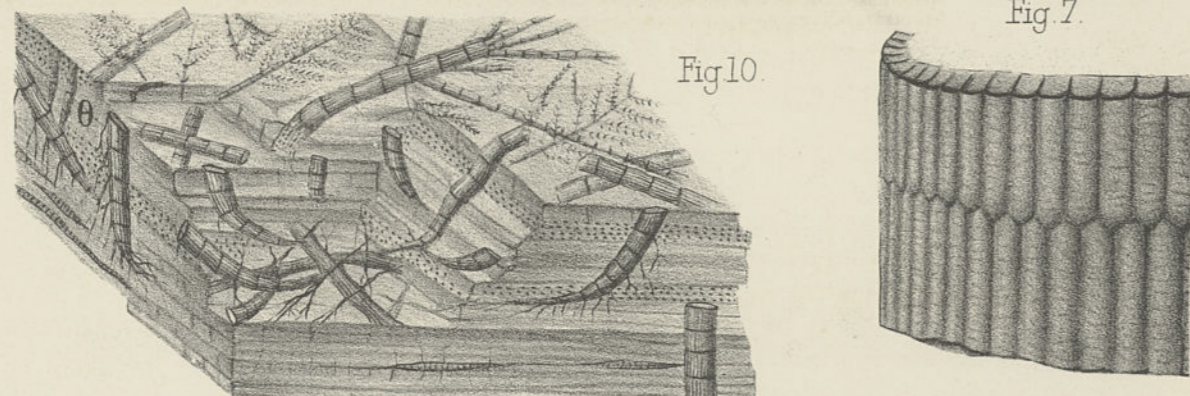
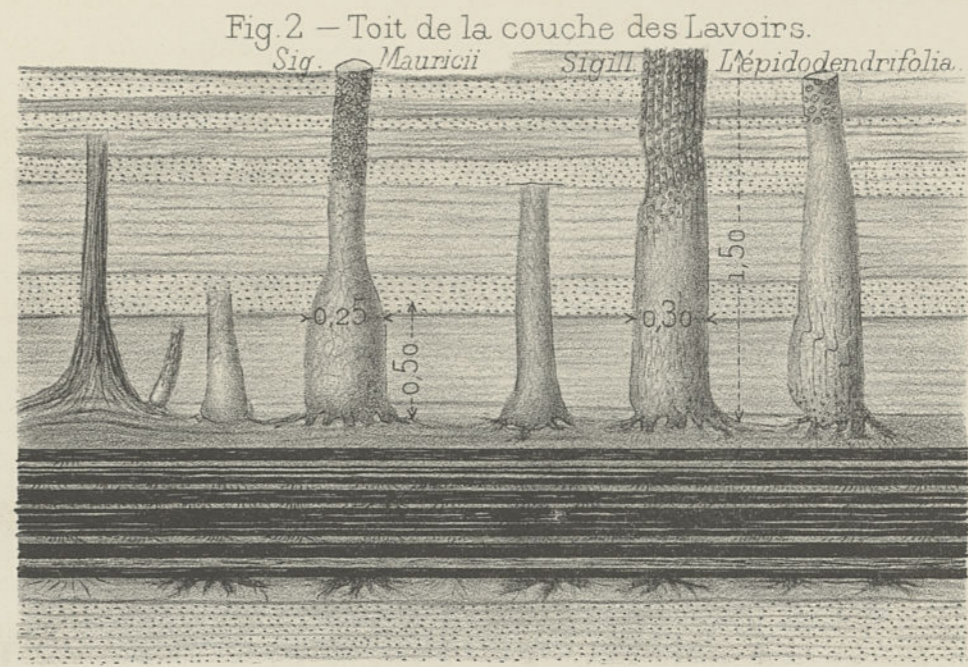
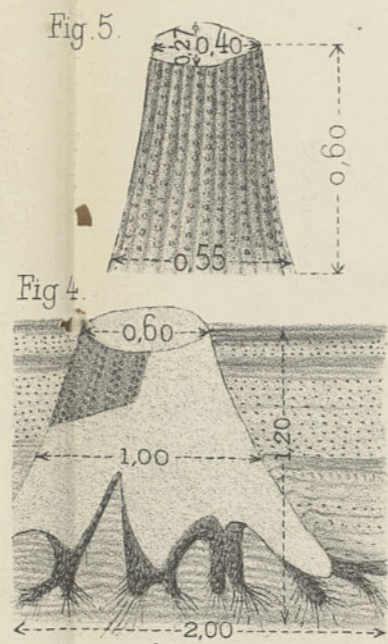
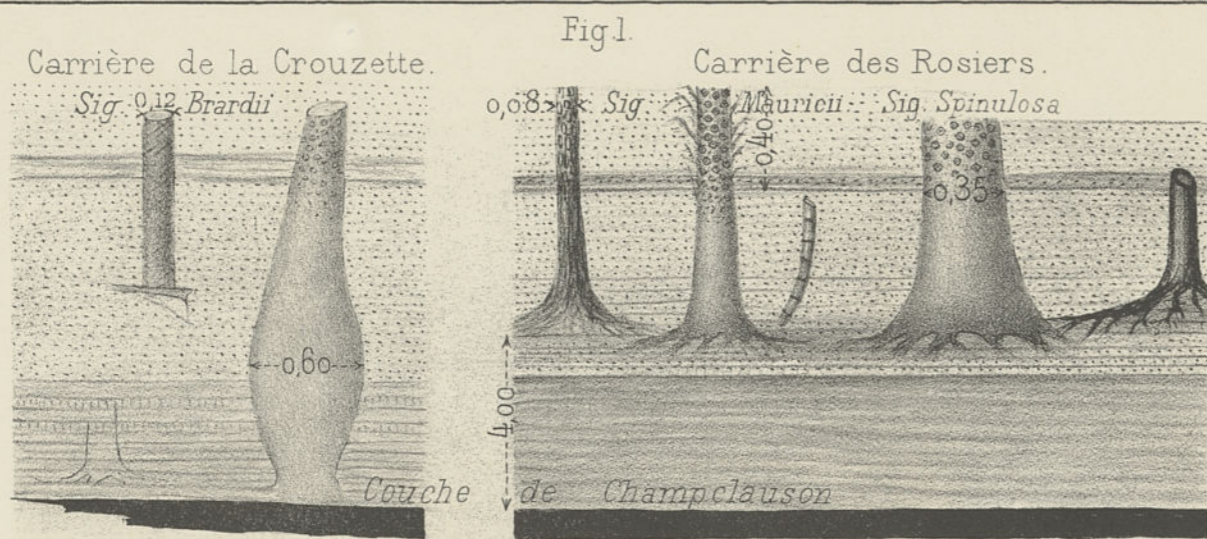


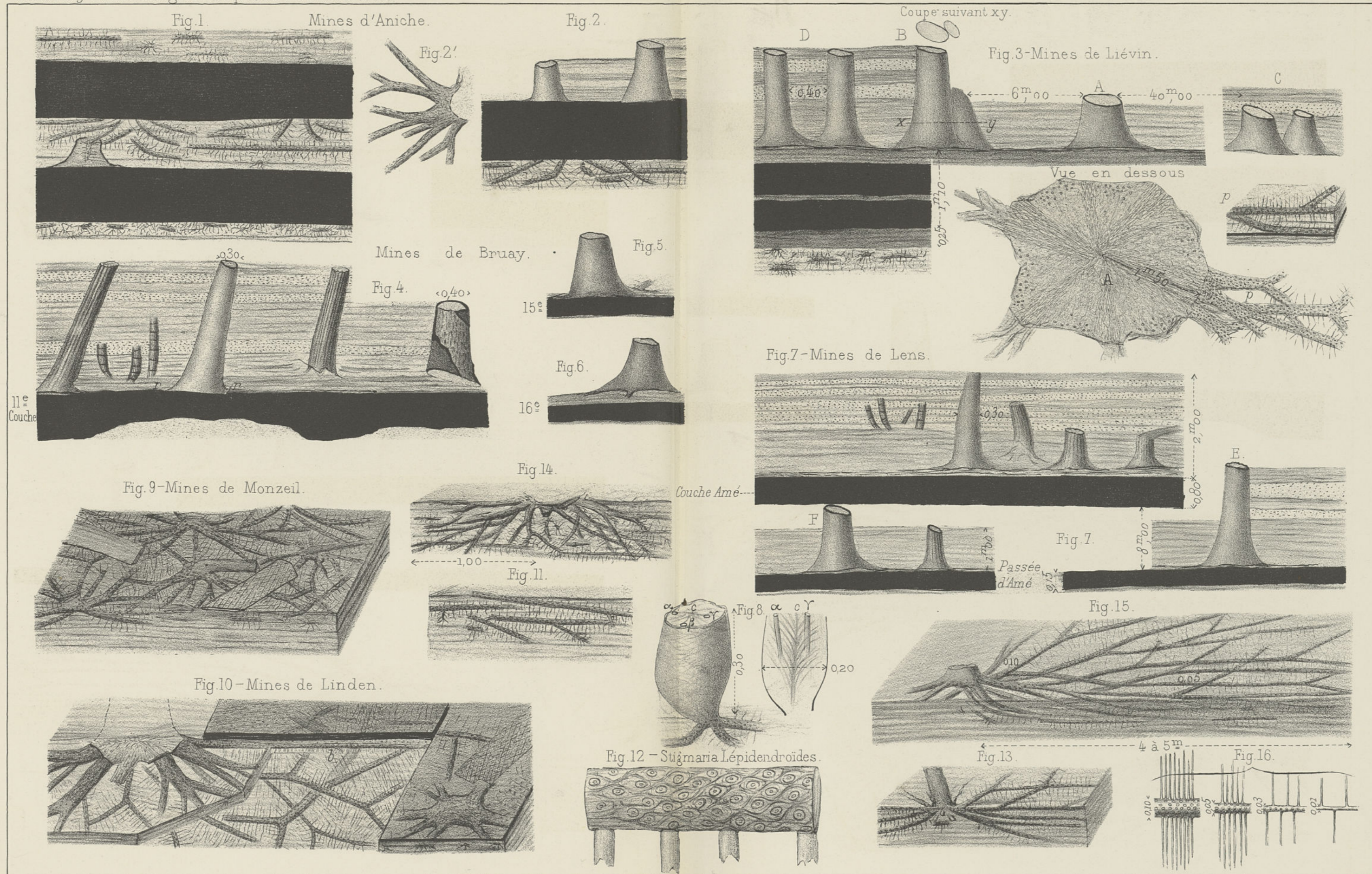
Fig. 11.

A en plan.









# Stigmaria autonomes.

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PLX

Fig. 1.

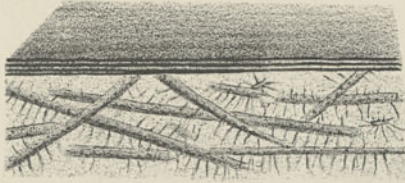


Fig. 2.

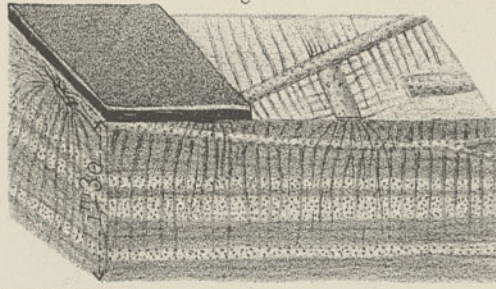


Fig. 3.



Fig. 7.

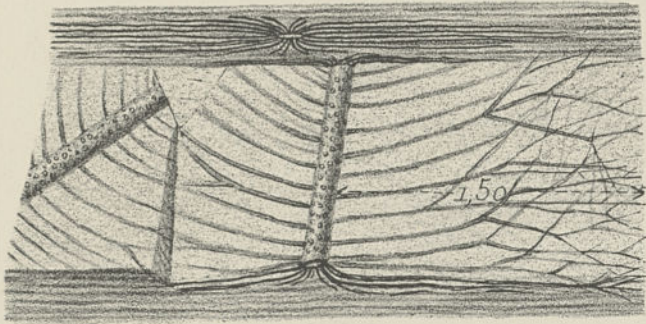


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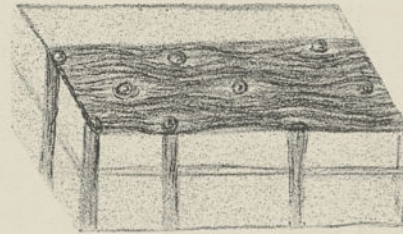


Fig. 4.

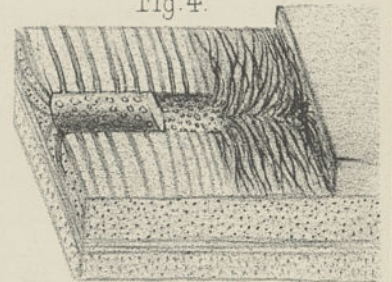


Fig. 5 - Matallana.

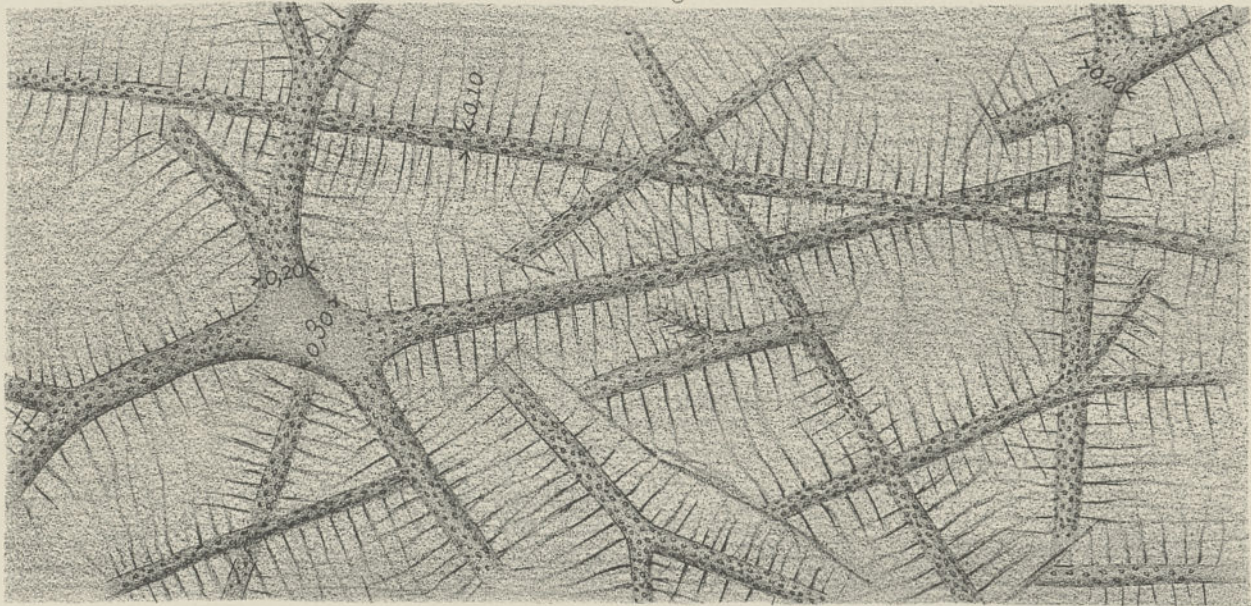


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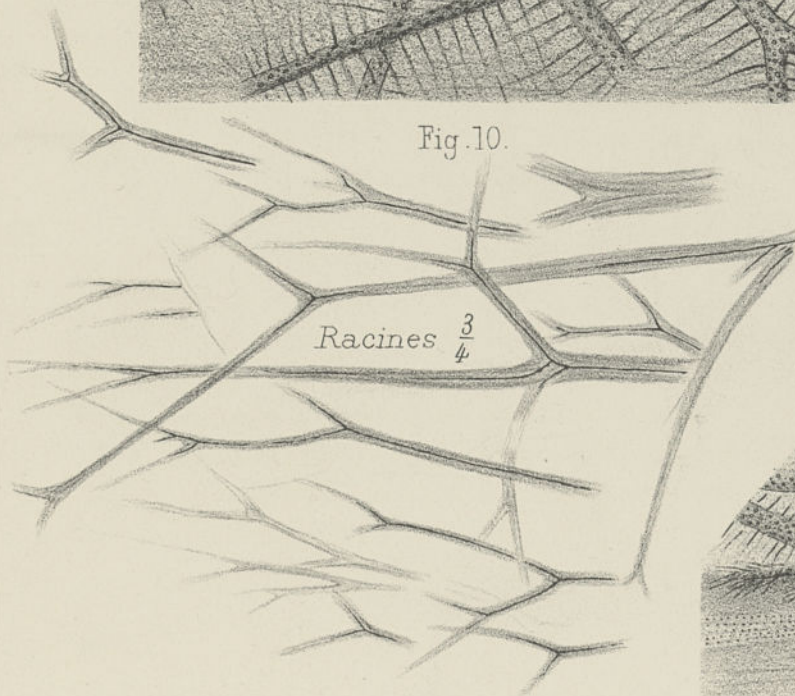


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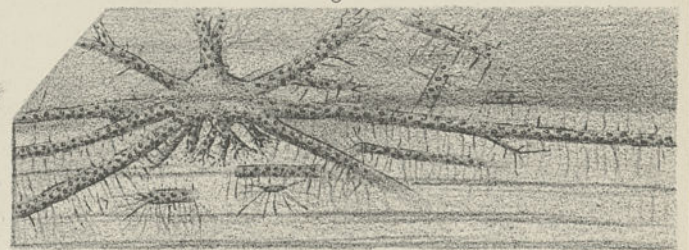


Fig. 6.



Ch Béranger, éditeur, Paris.

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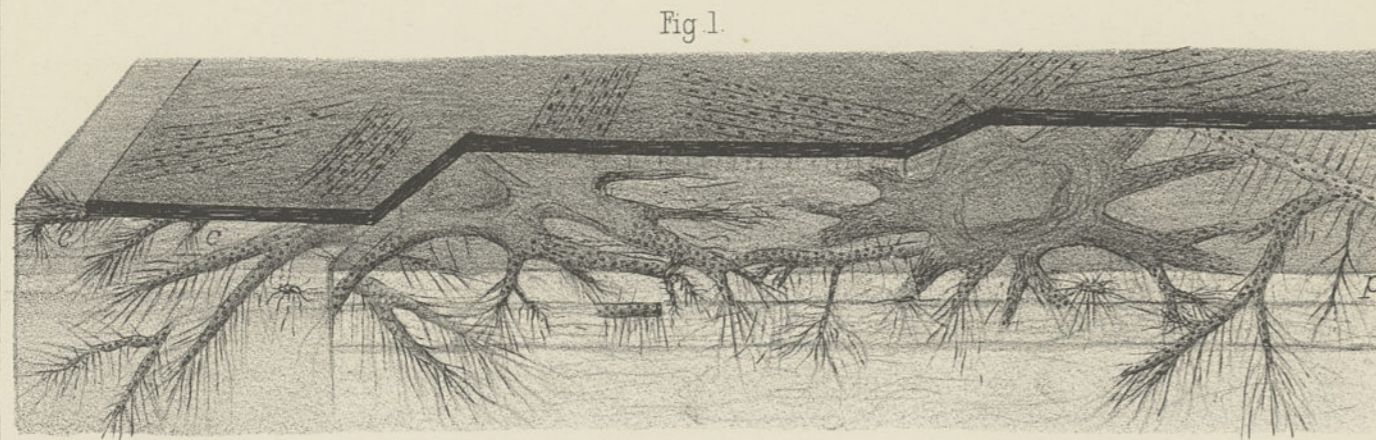


Fig. 1.

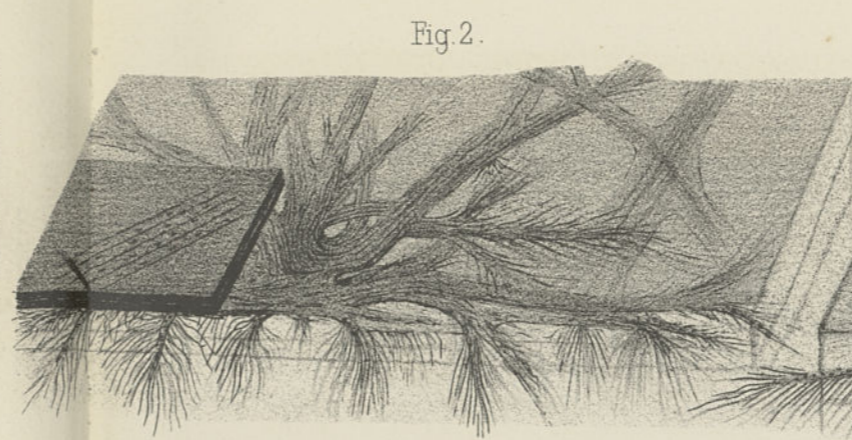


Fig. 2.

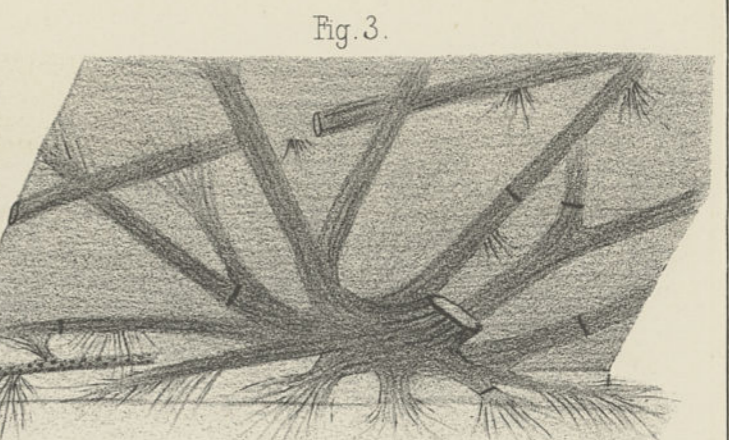


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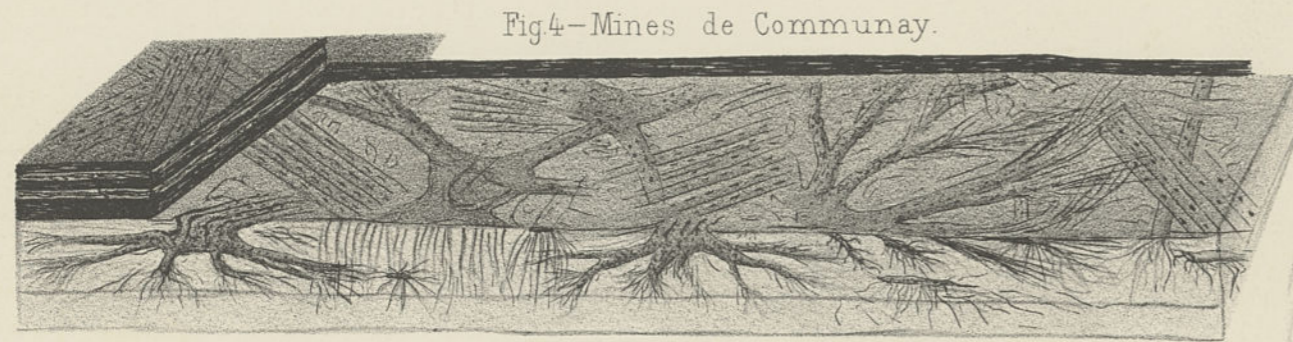
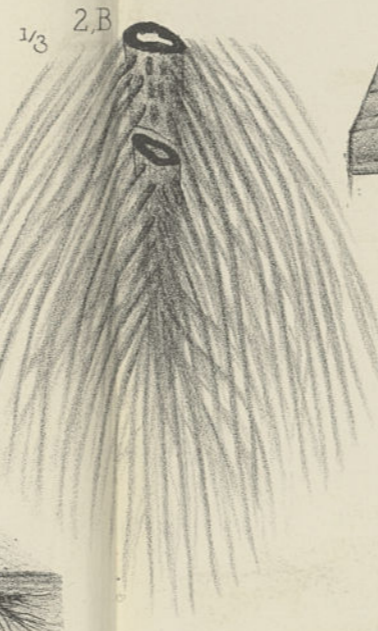
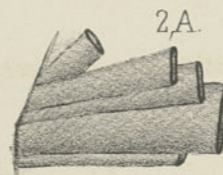


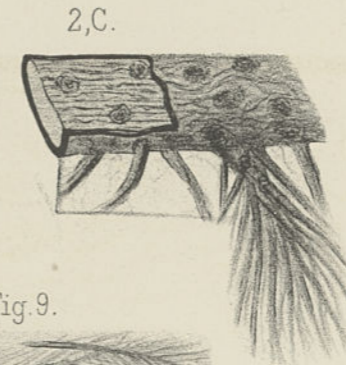
Fig. 4 - Mines de Communay.



1/3 2.B



2.A.



2.C.



Fig. 7.

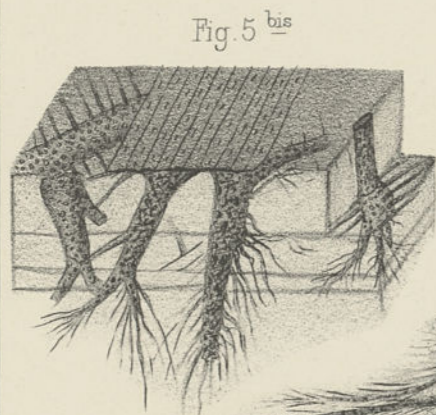


Fig. 5 bis

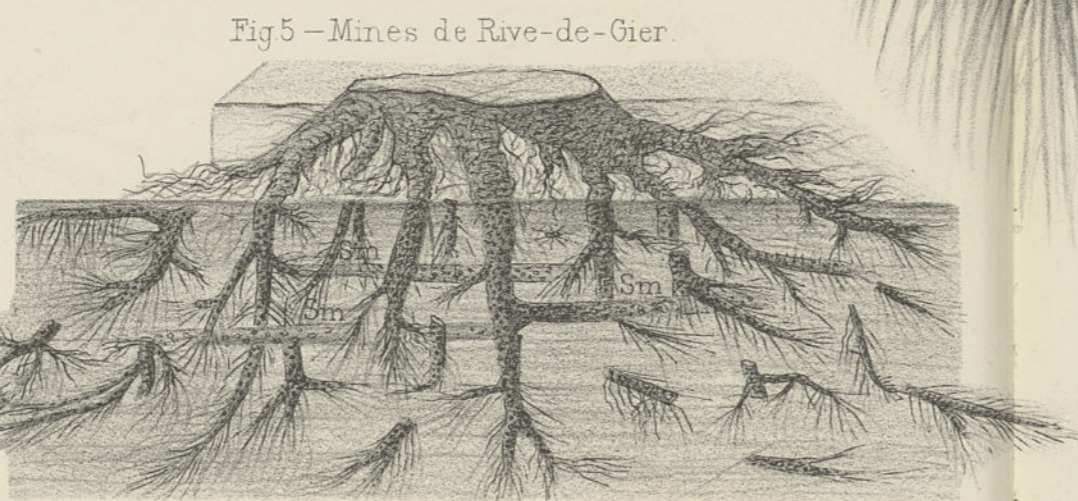


Fig. 5 - Mines de Rive-de-Gier.



Fig. 9.

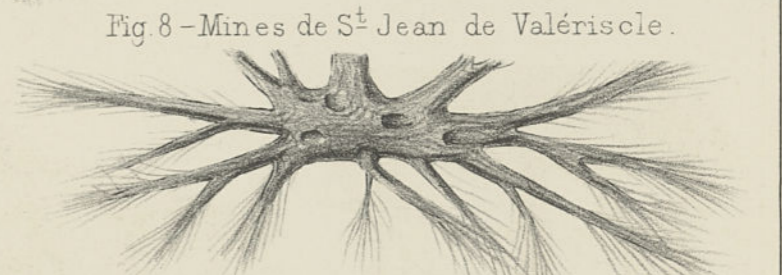


Fig. 8 - Mines de St Jean de Valériscle.

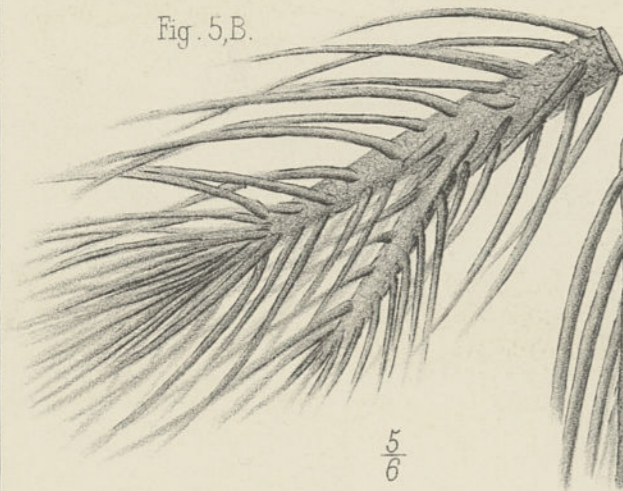


Fig. 5.B.

5/6

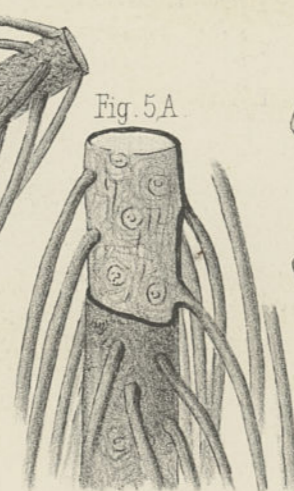


Fig. 5A

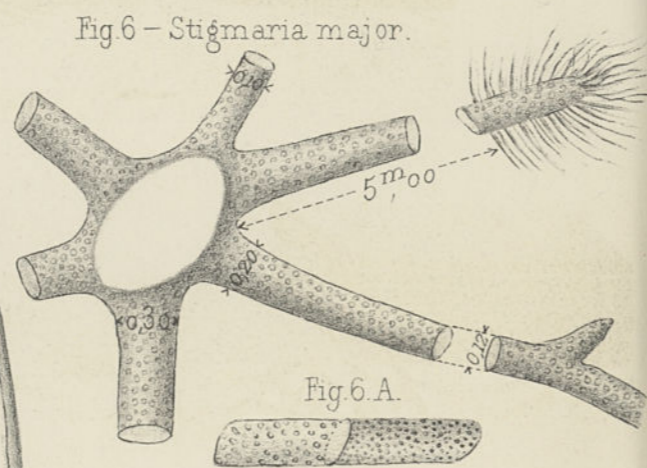


Fig. 6 - Stigmaria major.

Fig. 6.A.

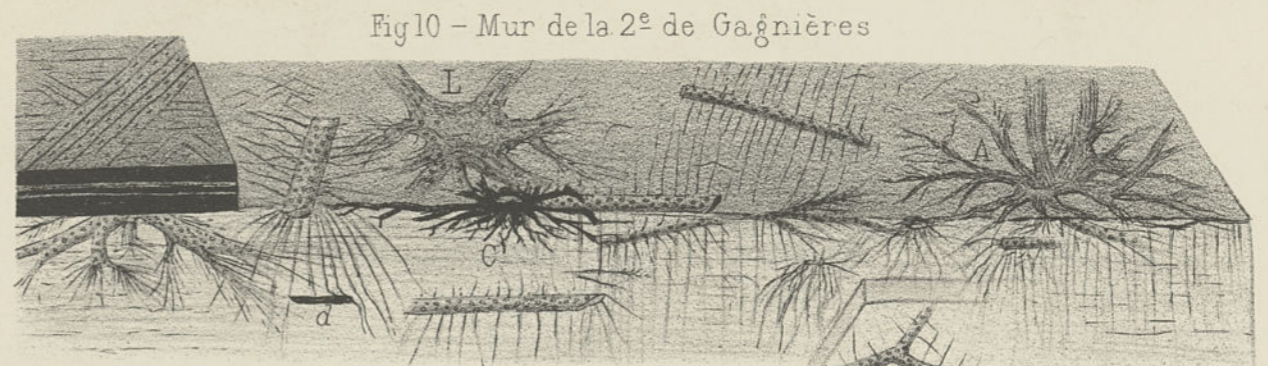


Fig. 10 - Mur de la 2e de Gagnières

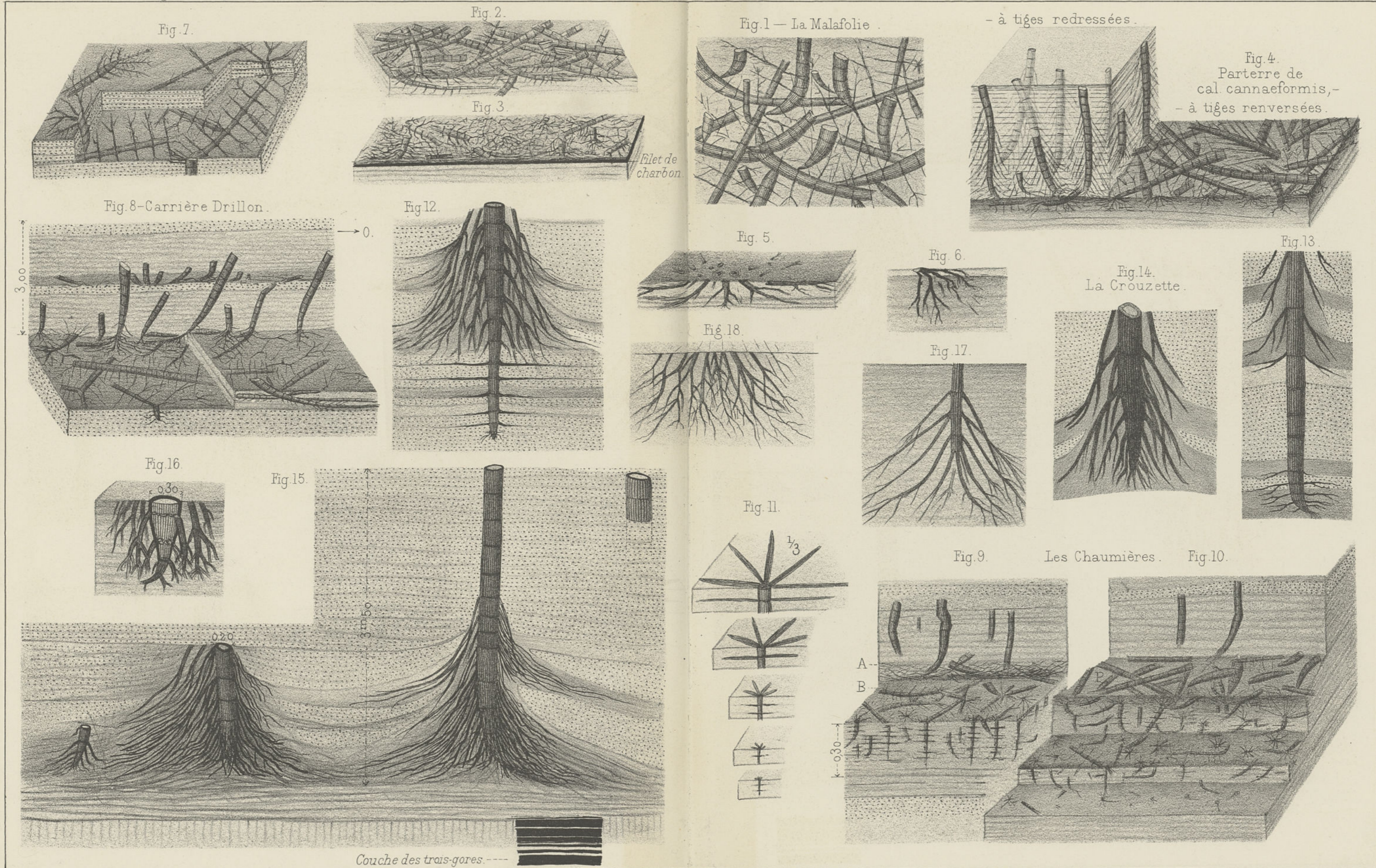


Fig. 11 - Mur de la Bâtarde.

# Sols fossiles et enracinement des Calamariées.

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Pl. XII.



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# Racines des Calamariées.

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Pl. XIII.

Fig. 1.

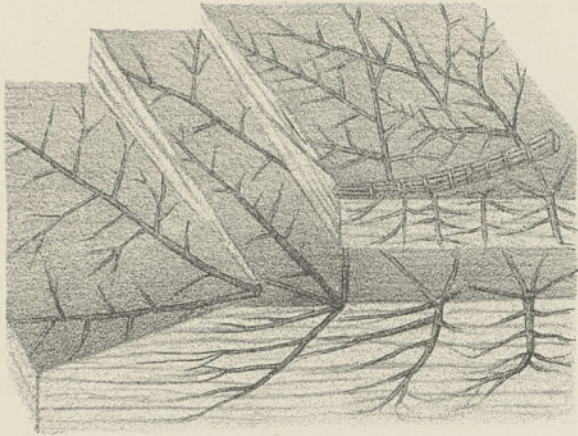


Fig. 2.



Fig. 3.

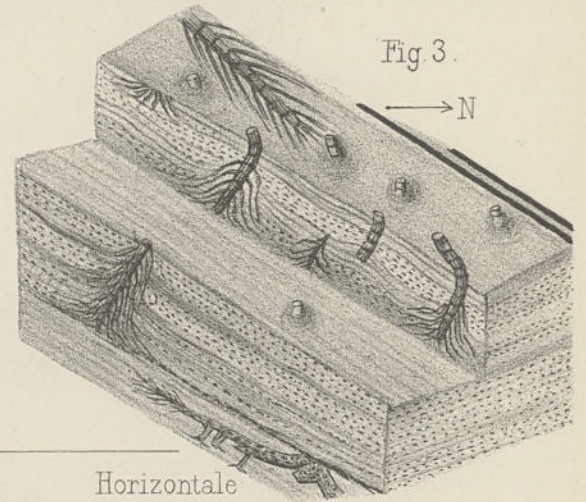


Fig. 6 - Calamites cruciatus.



Horizontale

Fig. 5.

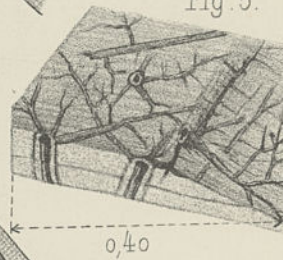


Fig. 4.

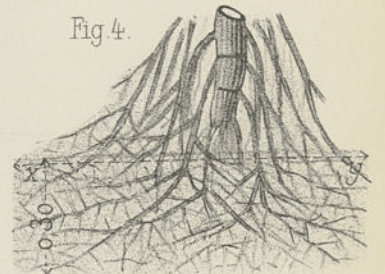
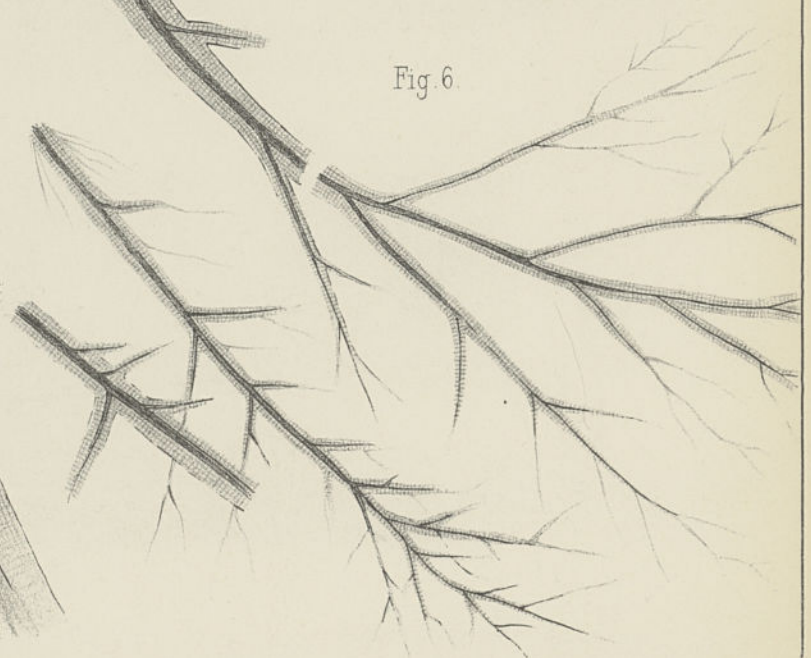


Fig. 6.



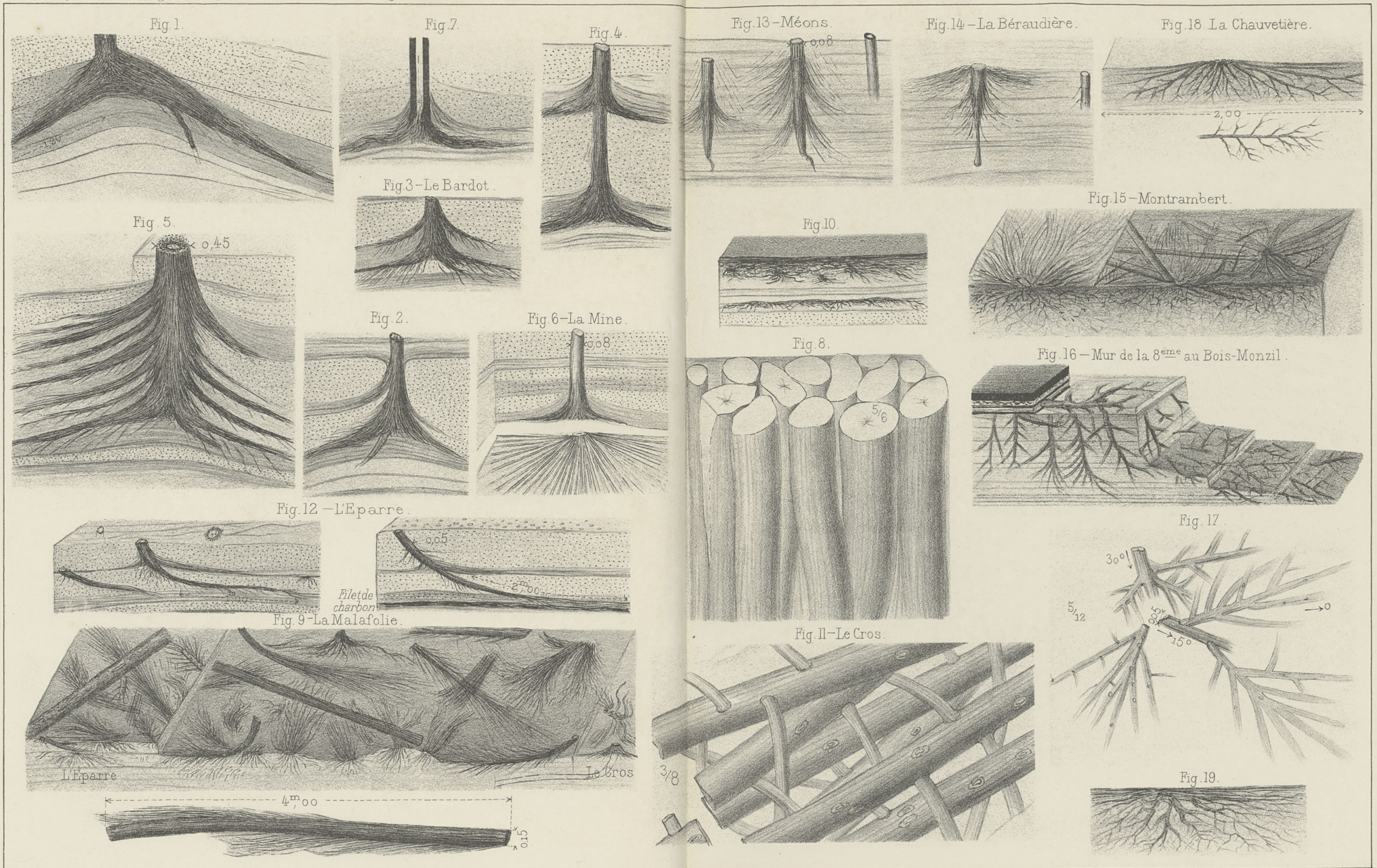
Ch. Béranger, éditeur, Paris.

Dessiné par Grand'Eury

# Souches, racines et sols de végétation de Pécoptéris.

Grand Eury-Recherches géobotaniques sur les sols fossiles de végétation.

Pl. XIV.



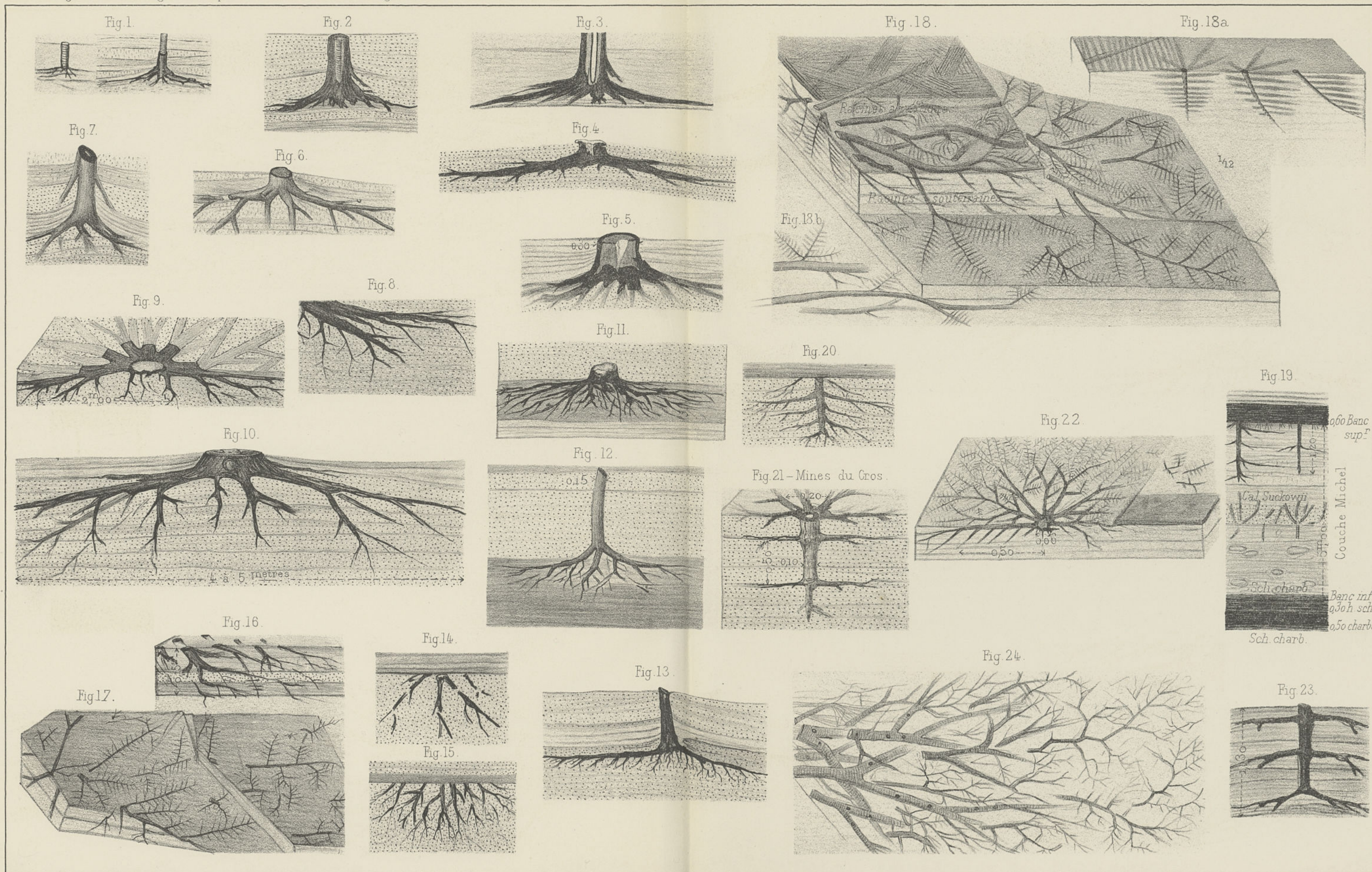
Ch. Béranger, éditeur, Paris.

Dessiné par Grand' Eury

# Souches et racines de Cordaites et de Dory-Cordaites.

Grand'Eury-Recherches géobotaniques sur les sols fossiles de végétation.

Pl. XV.



Ch. Béranget, éditeur, Paris

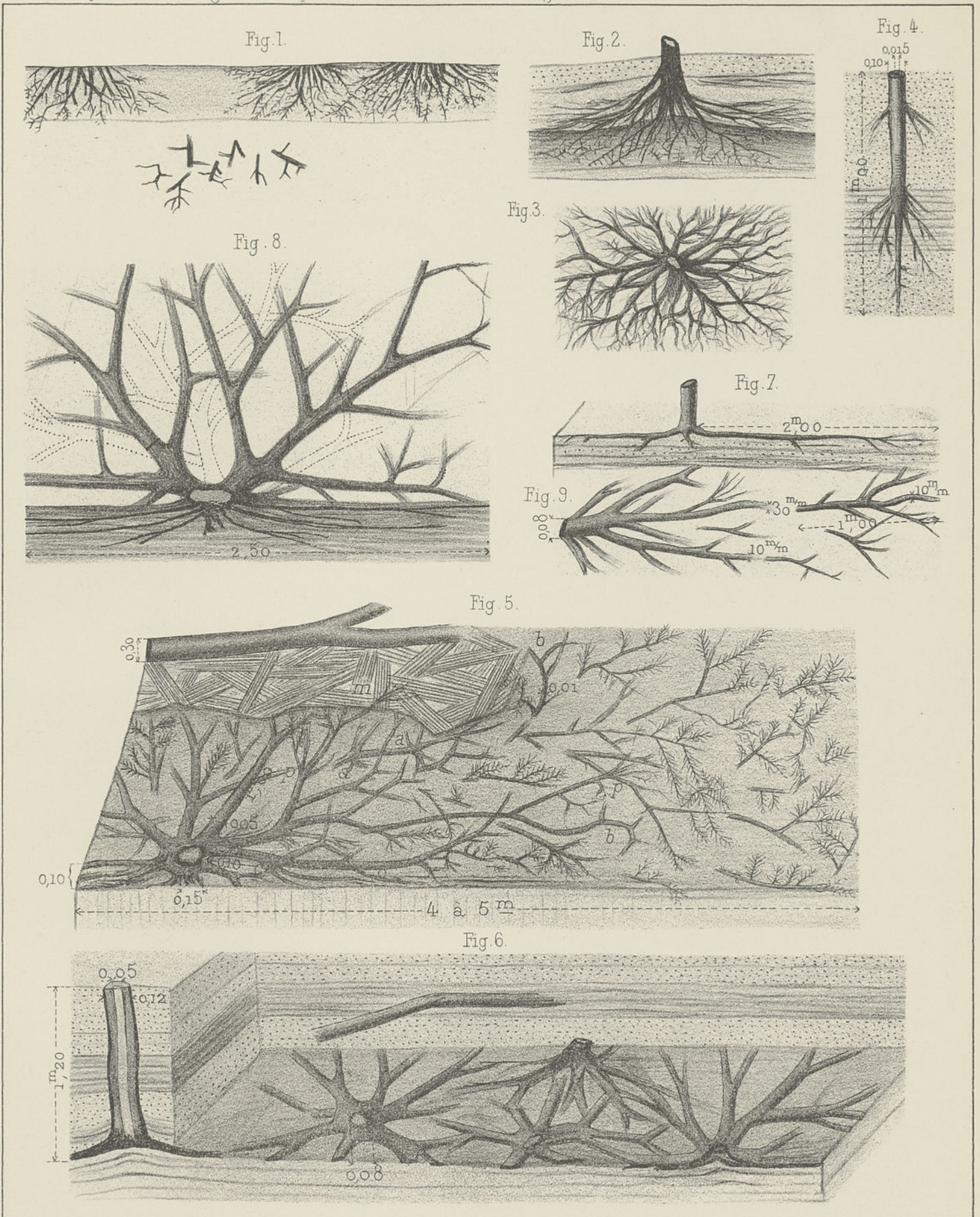
Dessiné par Grand'Eury.



Souches et racines de Poa-Cordaites et de Rhabdocarpus - Cordaites.

Grand'Eury - Recherches géobotaniques sur les sols fossiles de végétation.

Pl. XVI



Ch. Béranger, éditeur, Paris.

Dessiné par Grand'Eury.

Stipes, souches, stolons et racines de Névroptéridées.

Grand'Eury-Recherches géobotaniques sur les sols fossiles de végétation.

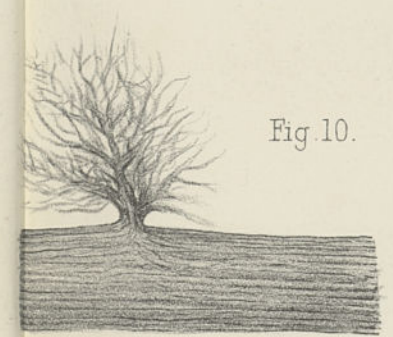
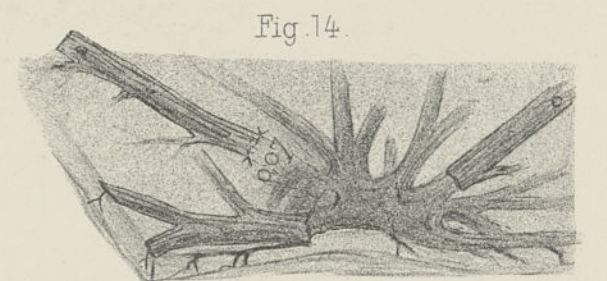
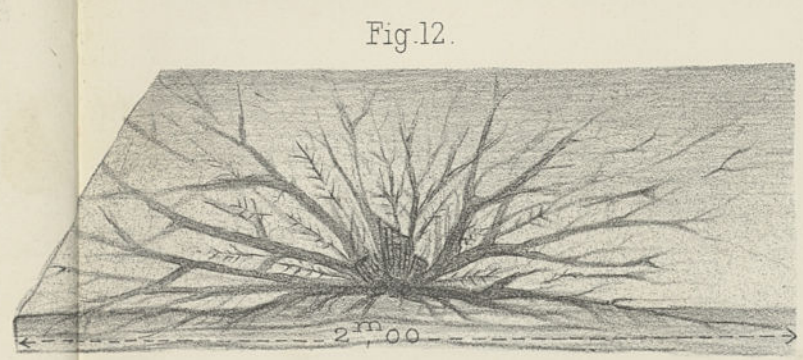
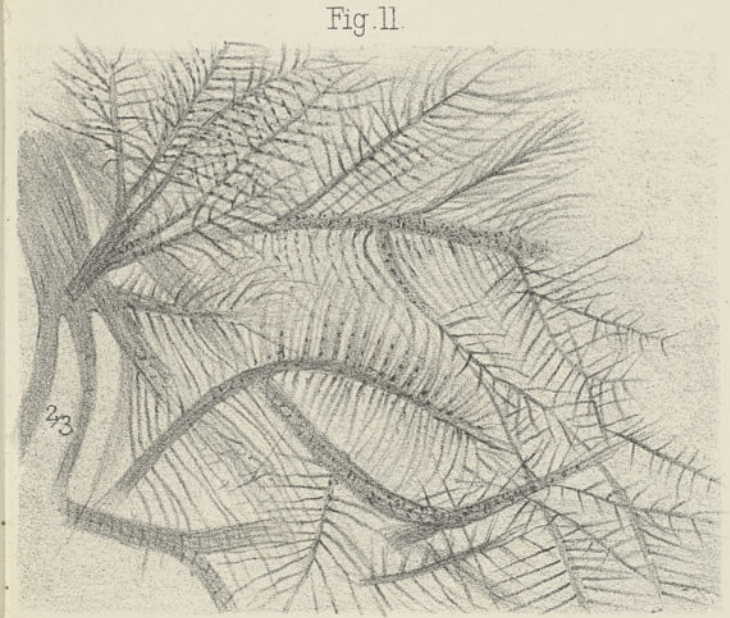
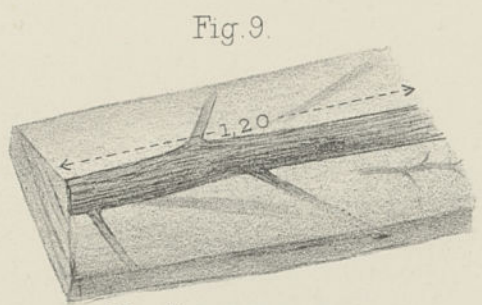
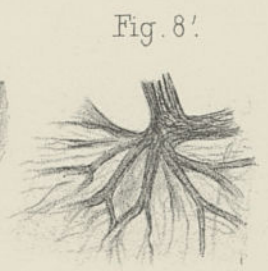
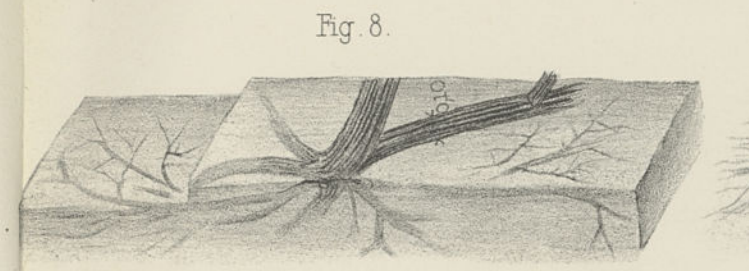
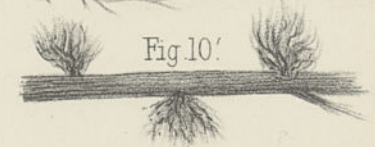
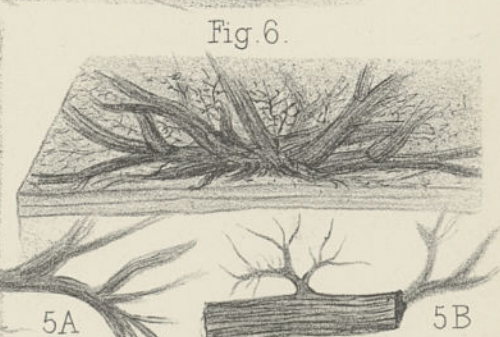
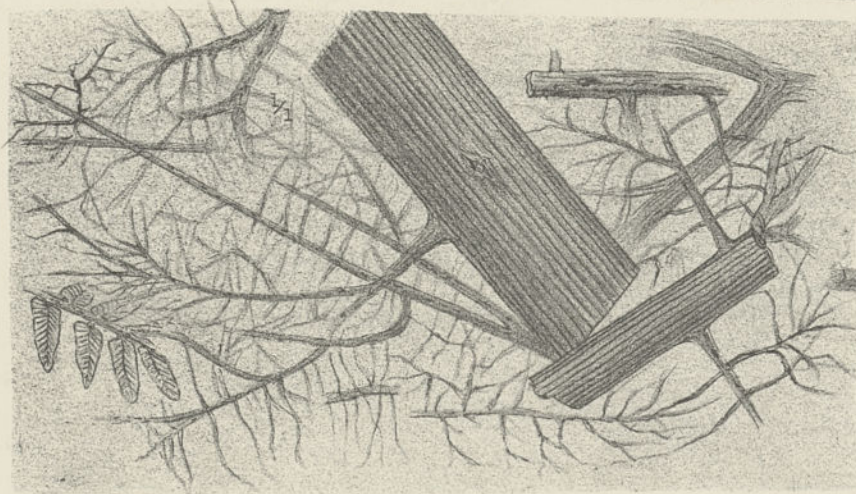
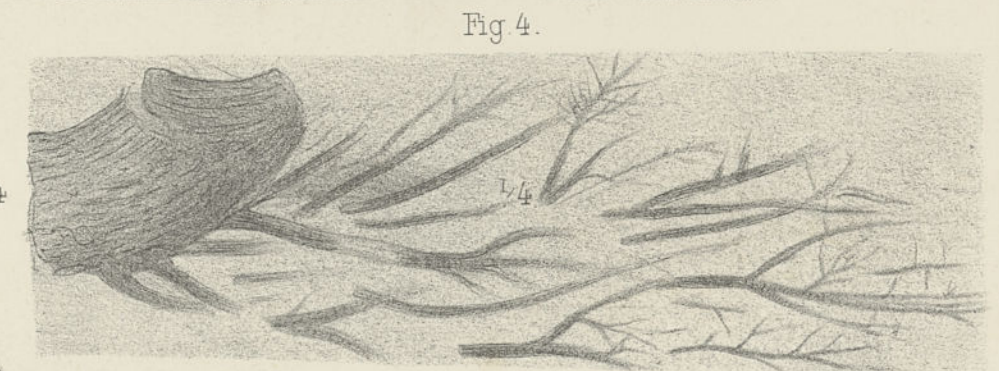
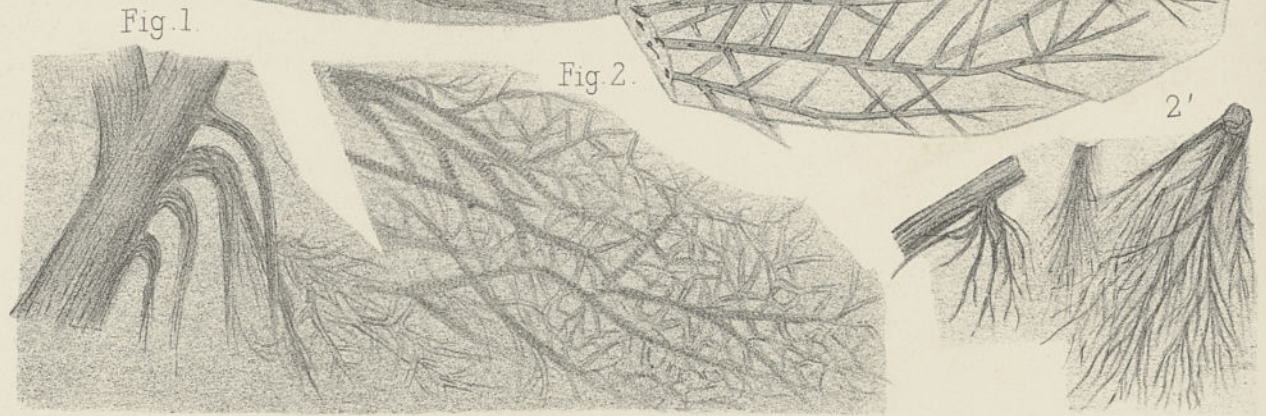
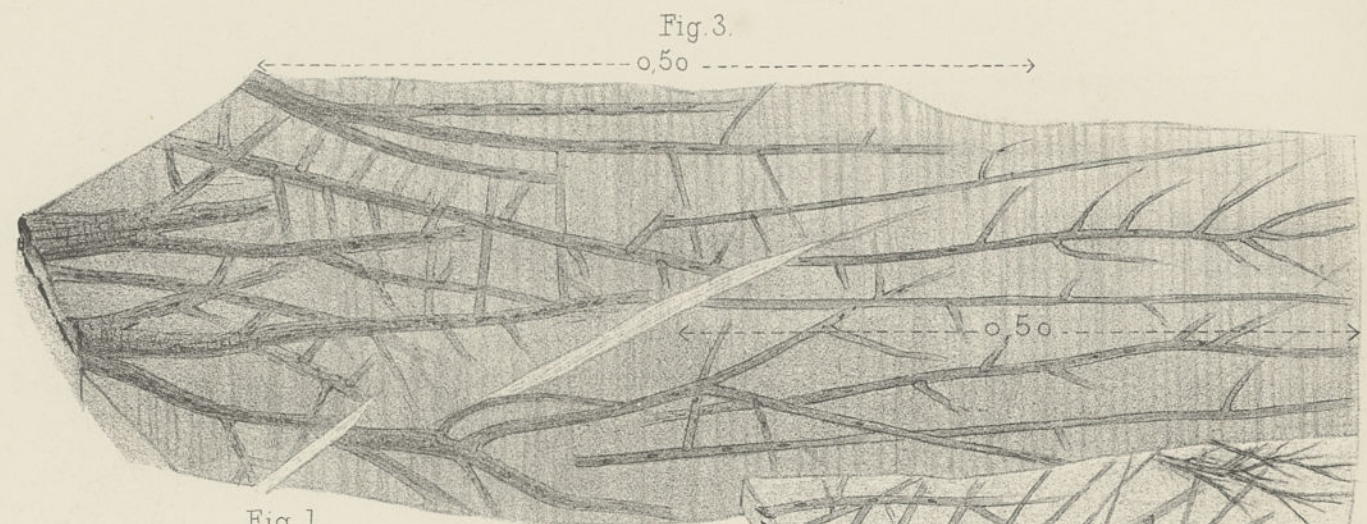
Pl. XVII.



Ch. Beranger, éditeur, Paris

imp. M. Bléjean, Paris.

Dessiné par Grand'Eury.



# Sols de végétation en rapport avec la houille.

Grand'Eury—Recherches géobotaniques sur les sols fossiles de végétation.

Pl. XIX

Fig. 1.

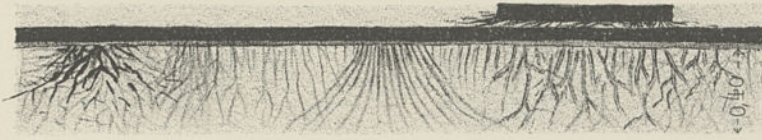


Fig. 2.



Fig. 3.

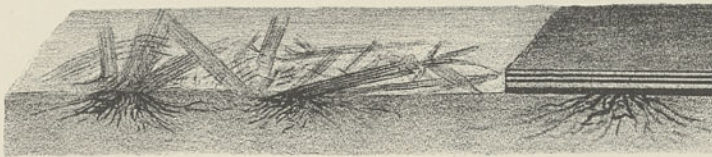


Fig. 4.



Fig. 7.



Fig. 6.



Fig. 9.

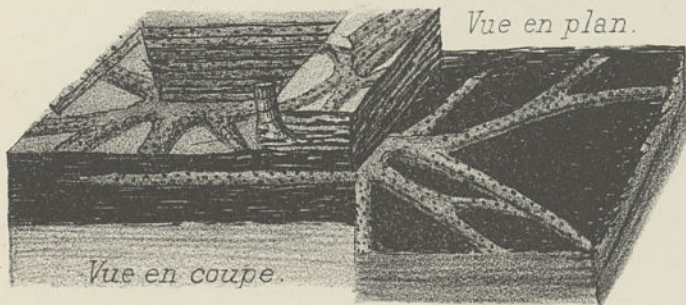


Fig. 5.



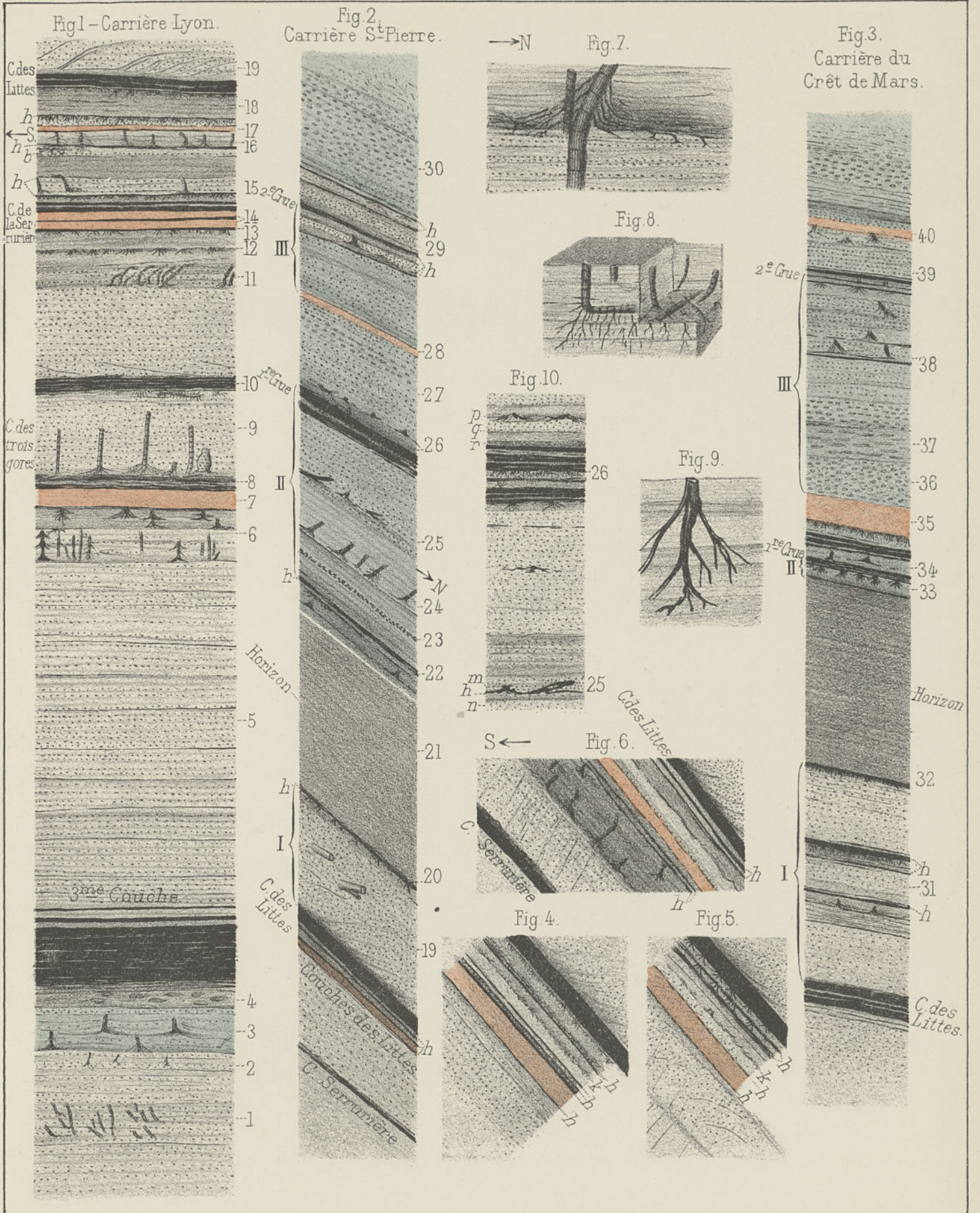
Ch. Béranger, éditeur, Paris.

Dessiné par Grand'Eury.

# Couches géobotaniques d'un système de couches de houille.

Grand'Eury-Recherches géobotaniques sur les sols fossiles de végétation.

Pl. XX.

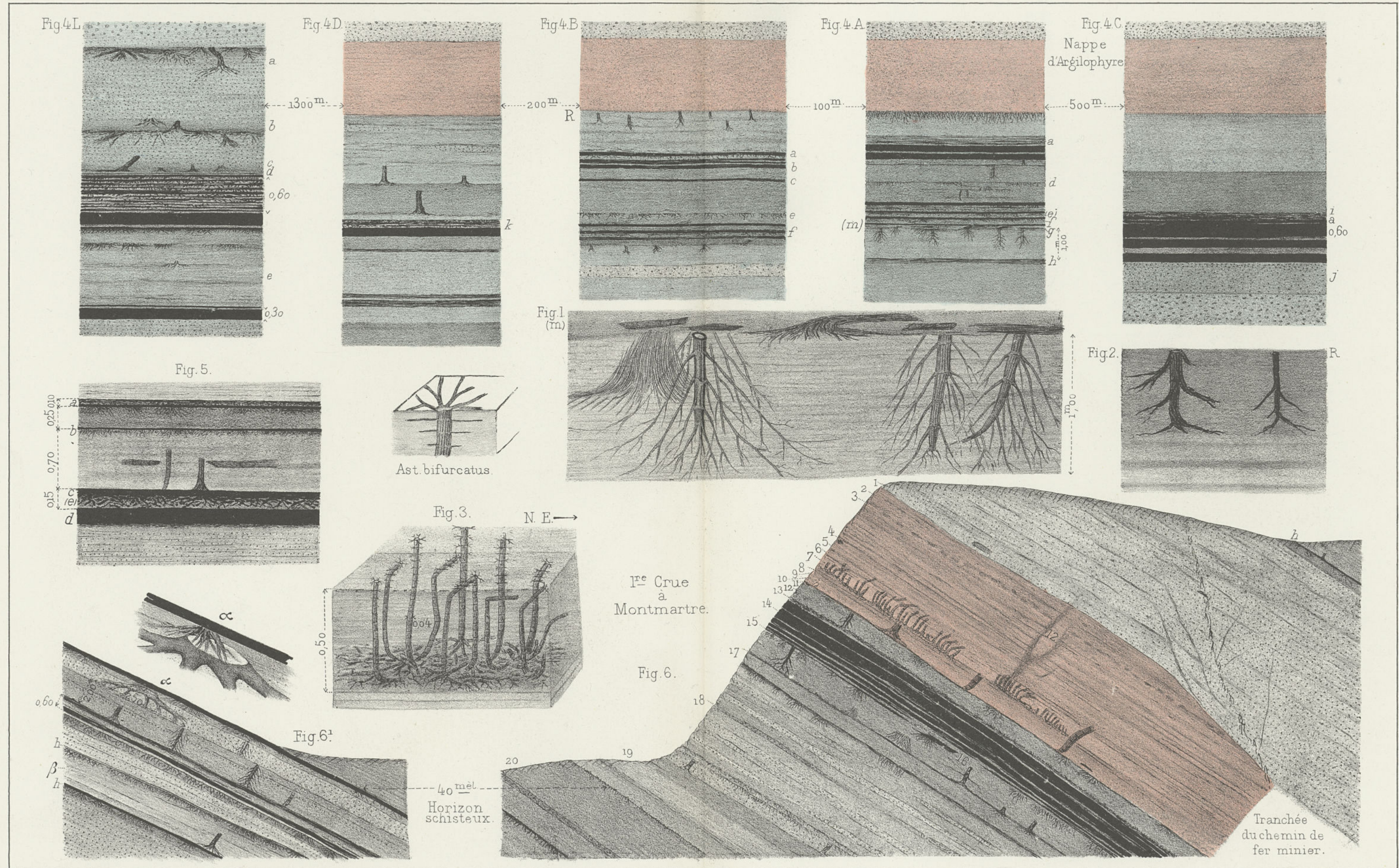


Ch. Béranger, Editeur Paris.

Dessiné par Grand'Eury

# Coupe géobotanique de la couche des Rochettes, (1<sup>ère</sup> Crue.)

Grand'Eury — Recherches géobotaniques sur la formation des couches de houille.



Ch. Béranget, éditeur, Paris

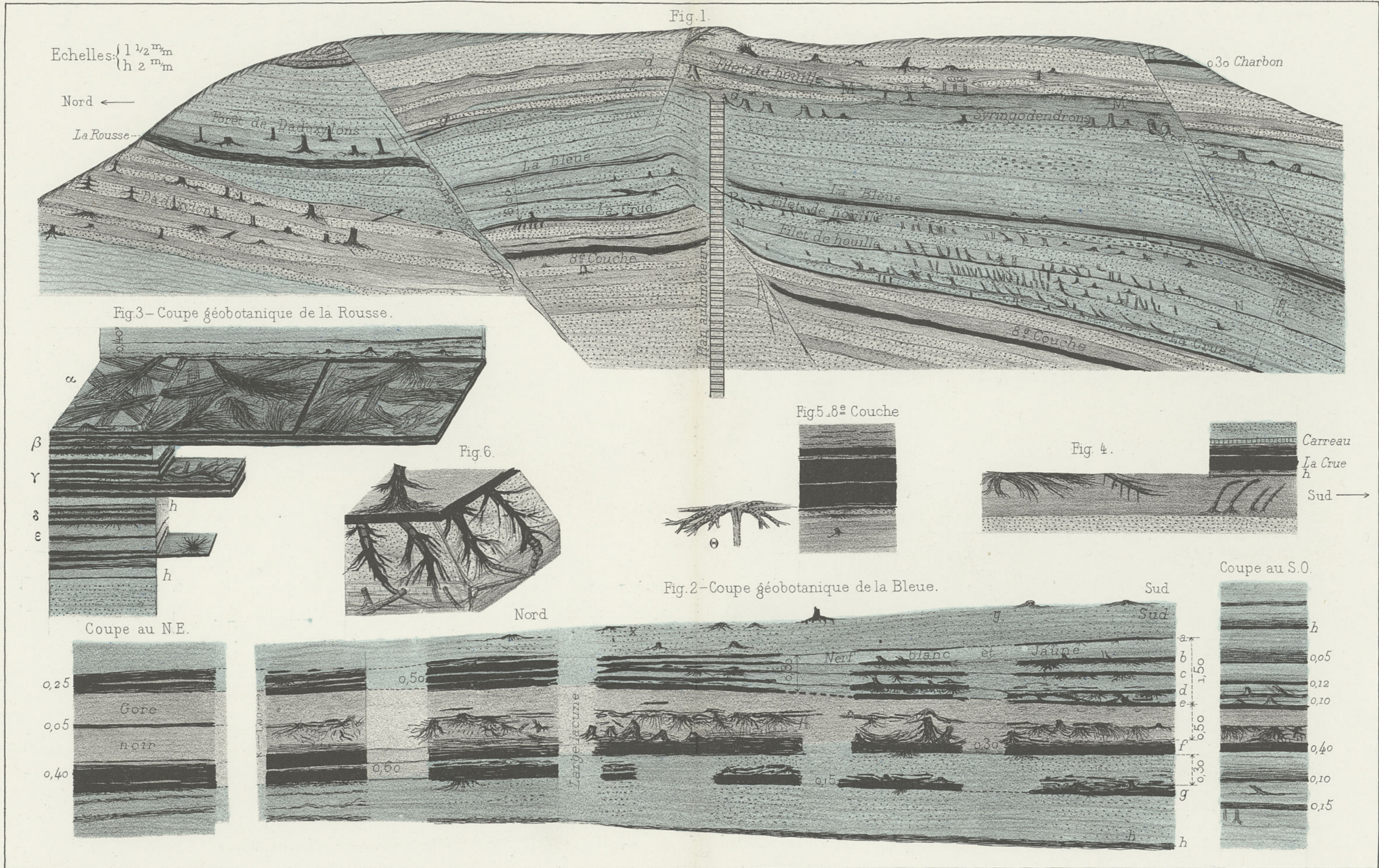
Imp. M. Bléjean

Dessiné par Grand'Eury

# Coupe Nord-Sud du Coteau de l'Eparre.

Grand'Eury—Recherches géobotaniques sur la formation des couches de houille.

PL. XXII.



Ch. Béranger, éditeur Paris

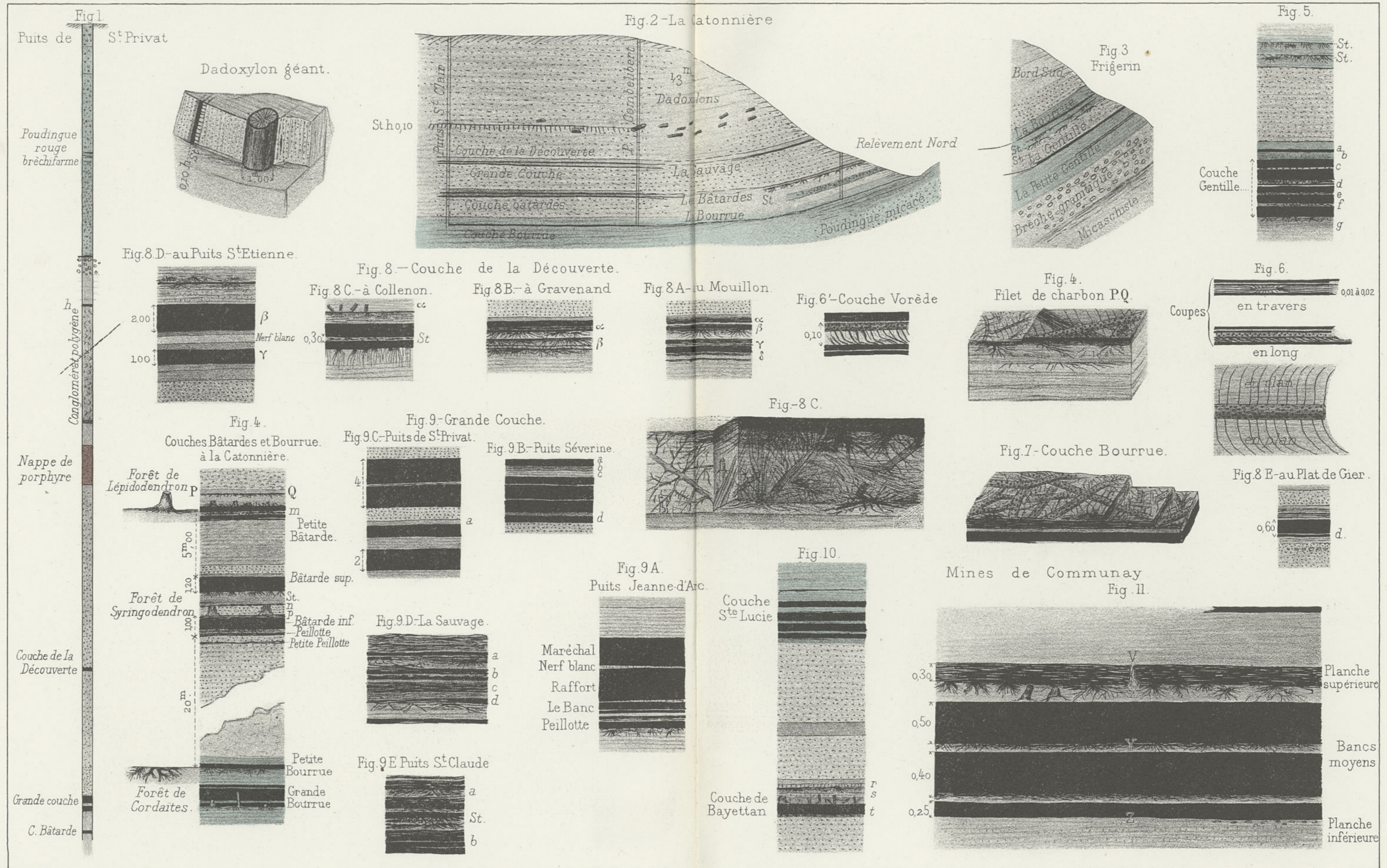
Imp. M. Blejean

Dessiné par Grand'Eury.

# Couches de Rive-de-Gier

Grand'Eury Recherches géobotaniques sur la formation des couches de houille.

Pl. XXIII.



Ch. Béranger, éditeur, Paris.

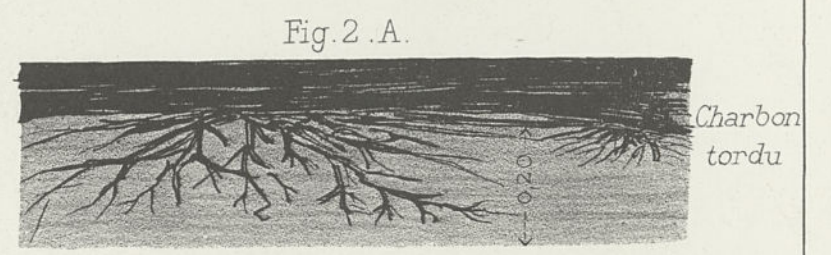
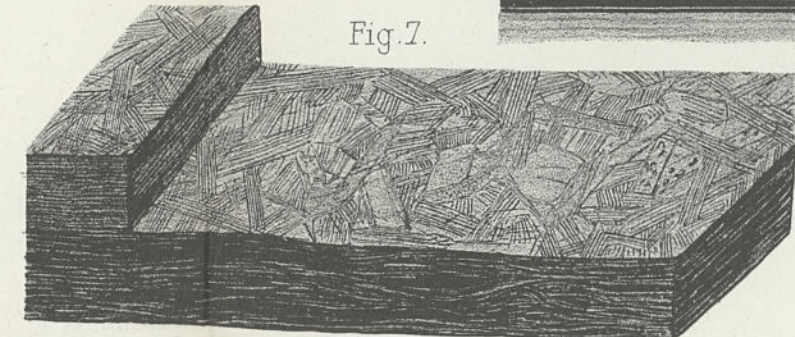
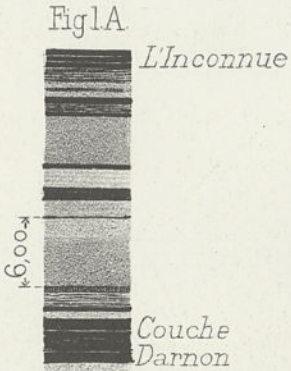
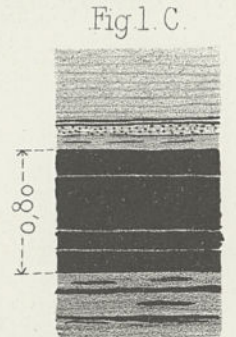
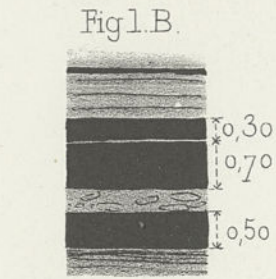
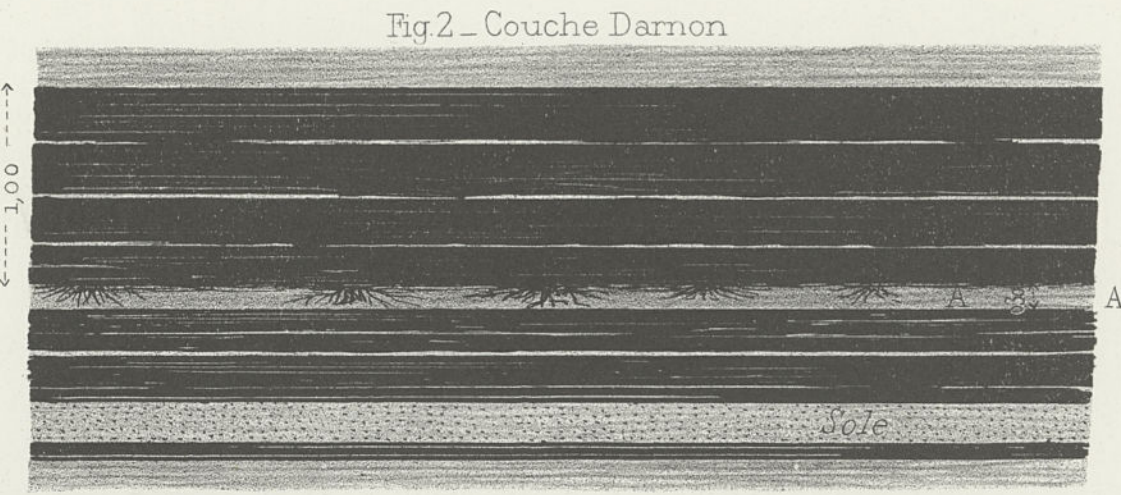
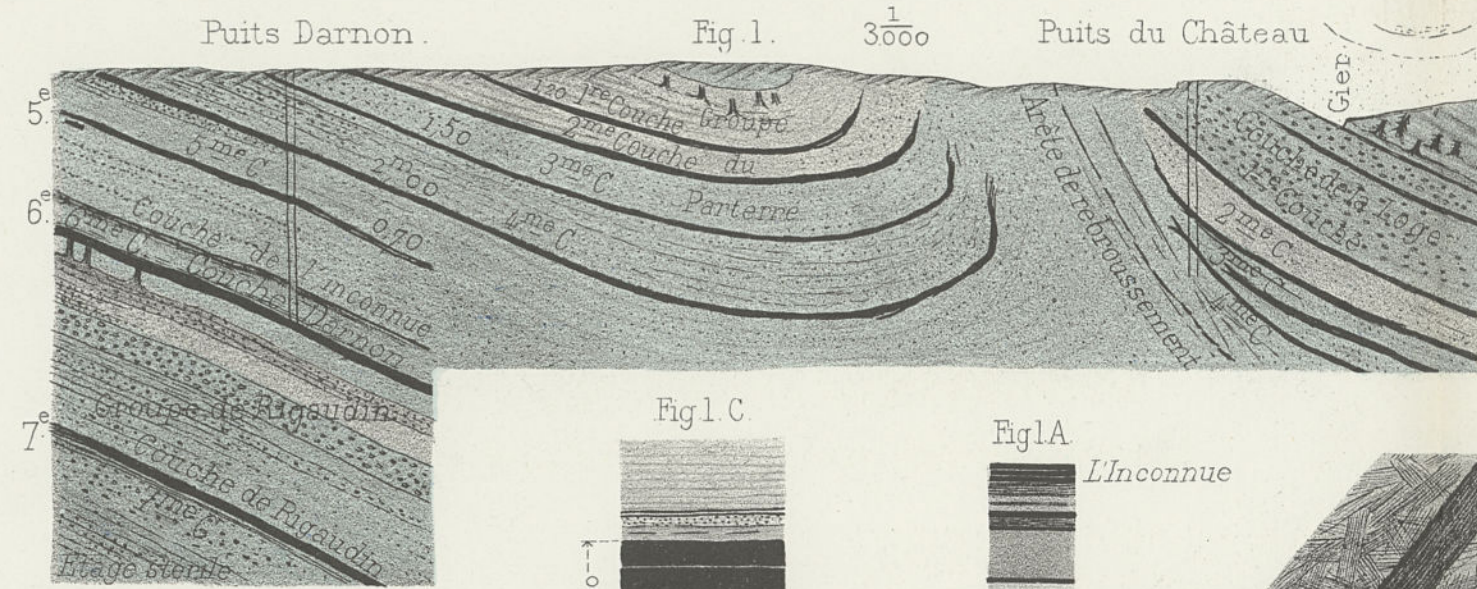
Imp. M. Blejean.

Dessiné par Grand'Eury.



# Couches de S<sup>t</sup> Chamond

Grand'Eury - Recherches géobotaniques sur la formation des couches de houille.



Charbon de Cordaïtes.

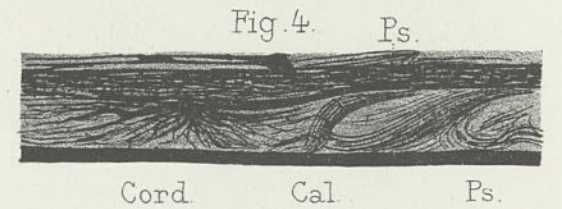
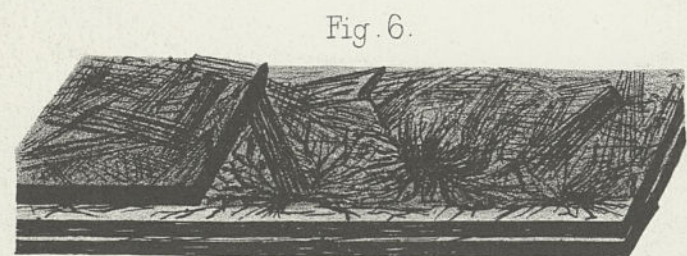
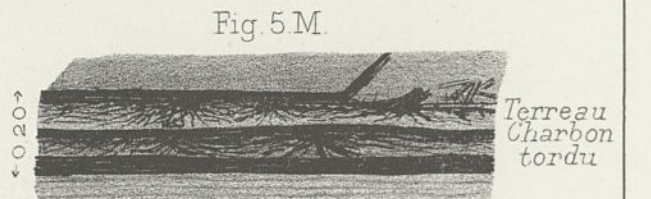
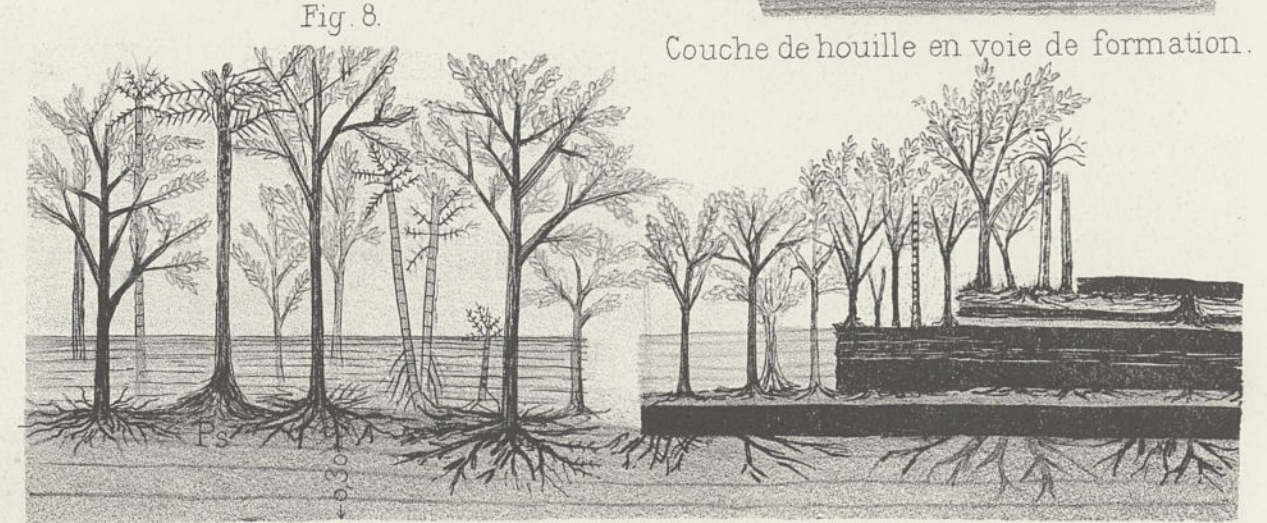


Fig. 3 - Couche dite "L'Inconnue".



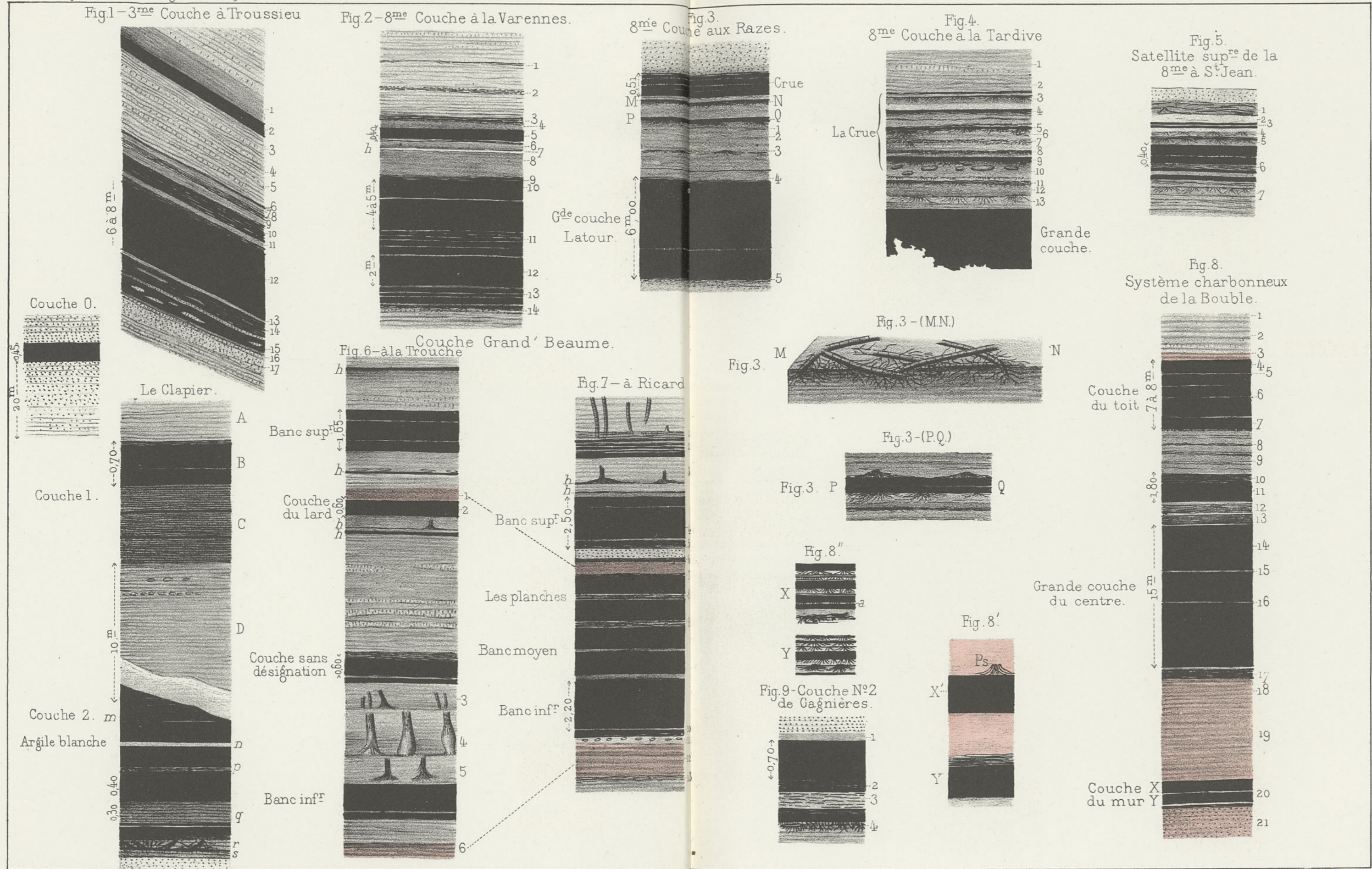
Couche de houille en voie de formation.



# Coupes analytiques de couches de houille.

Grand'Eury - Recherches géobotaniques sur la formation des couches de houille.

Pl. XXV.



Ch. Béranget, éditeur, Paris.

Imp. M. Lejean.

Dessiné par Grand'Eury.

# Toit et mur de couches de houille.

Grand'Eury - Recherches géobotaniques sur la formation des couches de houille.

Pl. XXVI.

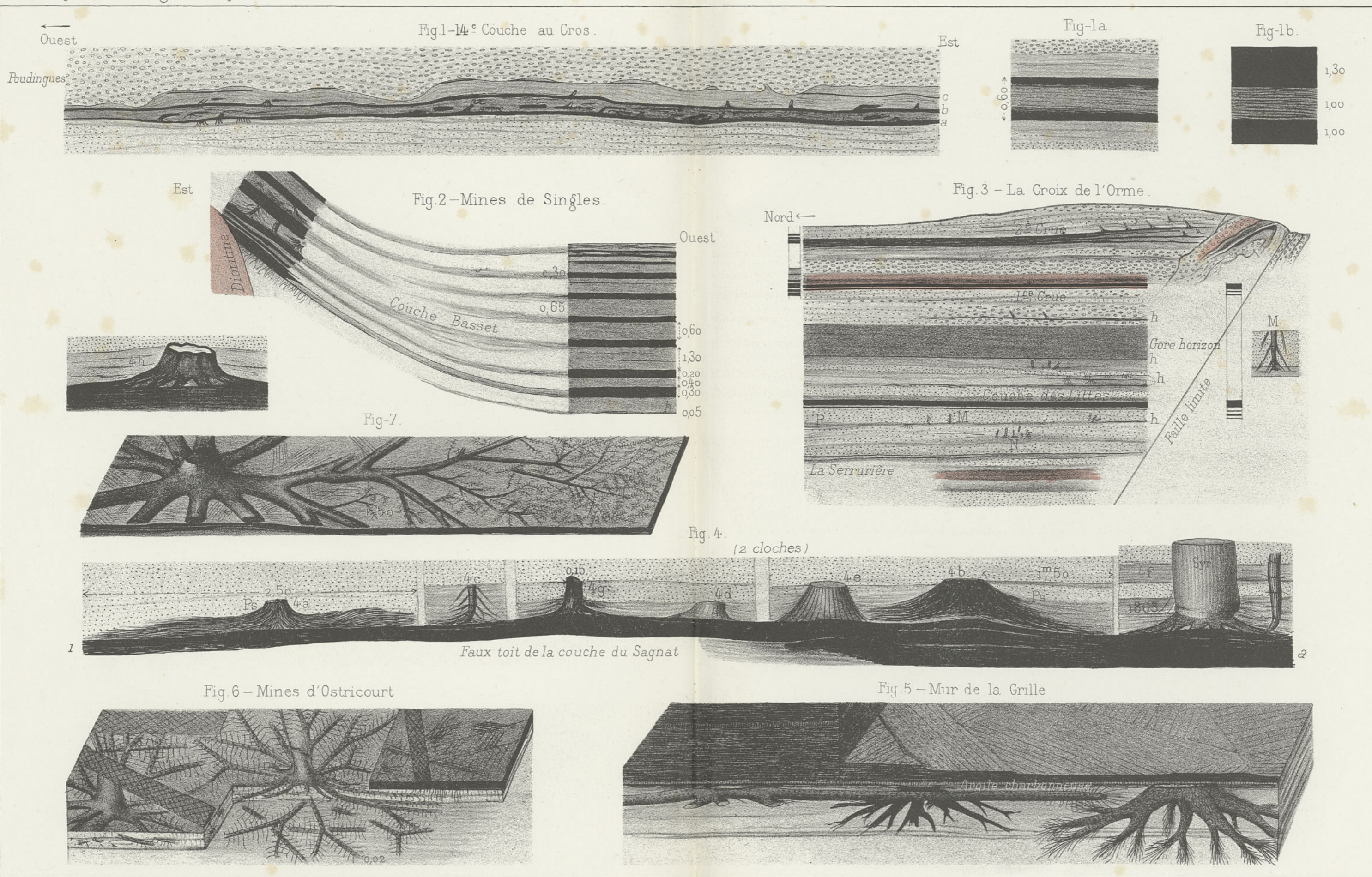


Fig. 1 - 14<sup>e</sup> Couche au Cros.

Fig. 1-a.

Fig. 1-b.

Fig. 2 - Mines de Singles.

Fig. 3 - La Croix de l'Orme.

Fig. 7.

Fig. 4.

Fig. 5 - Mur de la Grille.

Fig. 6 - Mines d'Ostricourt.

Faux toit de la couche du Sagnat

Ch. Béranget, éditeur, Paris.

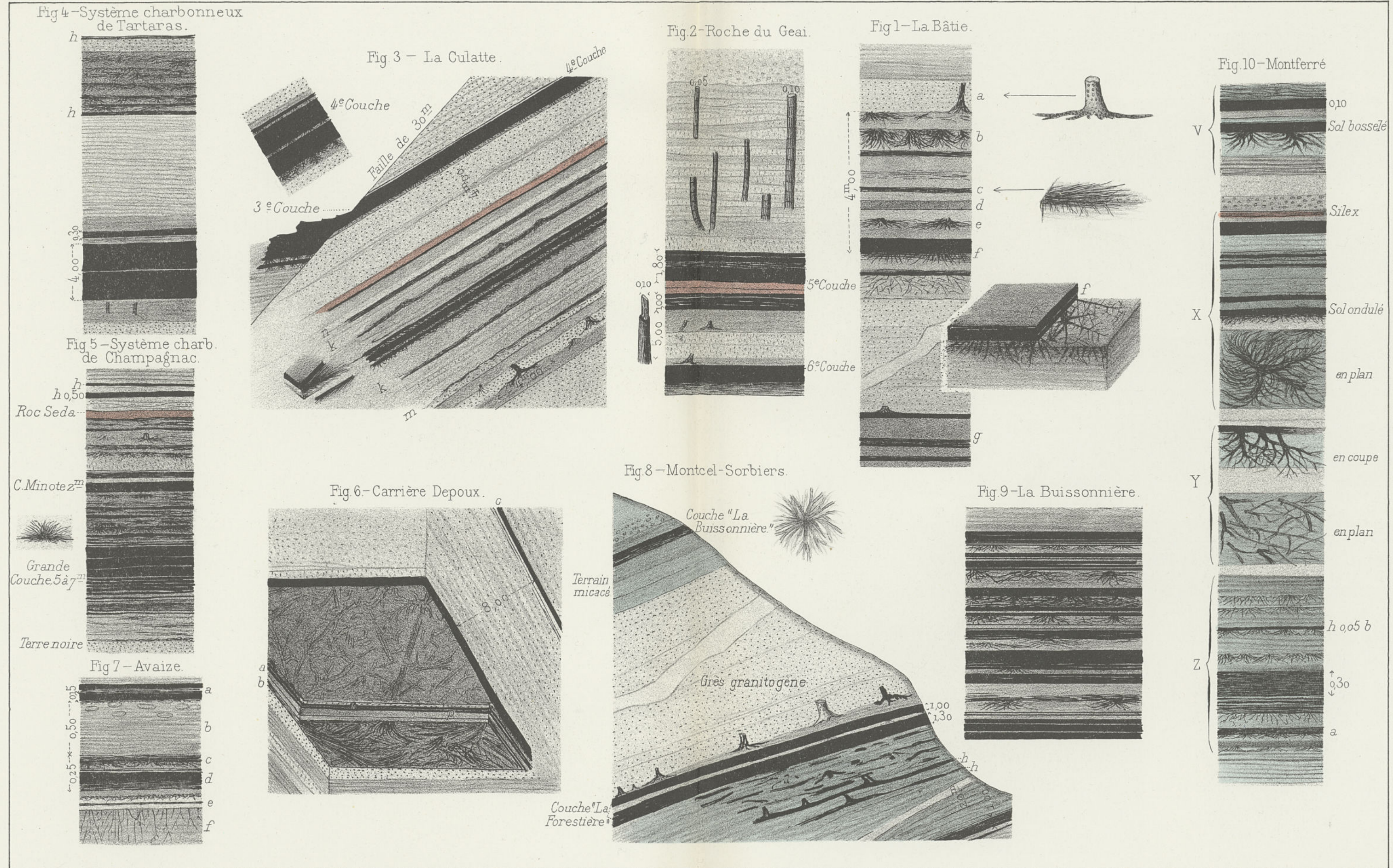
M. Bléjean, Imp.

Dessiné par Grand'Eury.

# Formations charbonneuses des stampes et terrains stériles.

Grand'Eury - Recherches géobotaniques sur la formation des couches de houille.

Pl. XXVII.



Ch. Béranger, éditeur Paris

Imp. M. Bléjean.

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# Couches d'Anthracite du Culm

Grand'Eury - Recherches géobotaniques sur la formation des couches de houille.

Pl. XXVIII

Fig.1-Mines de Combres.



Couche N°1

0,15 h Porphyre

Couche N°2

0,10 h

Fig. 2-Couche N°1.

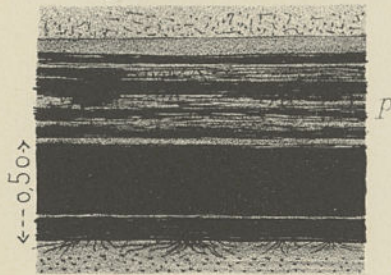


Fig. 3-Couche N°2

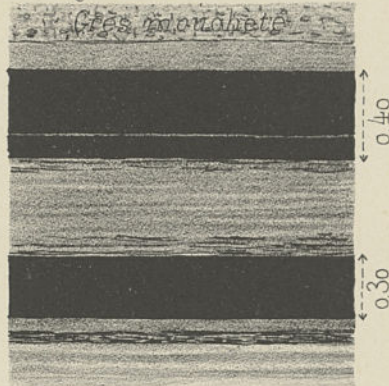
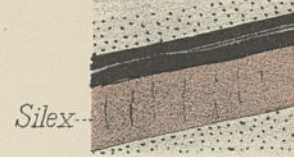


Fig. 6.



Silice

Fig. 7.

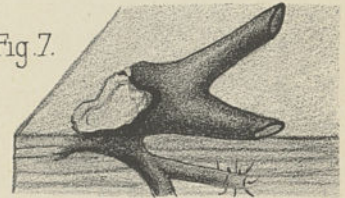


Fig. 5-Couche du Bois-Guetton

0,50 Fig. 4 - Couche de St-Claude.

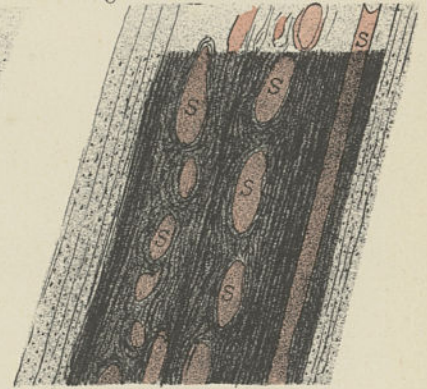
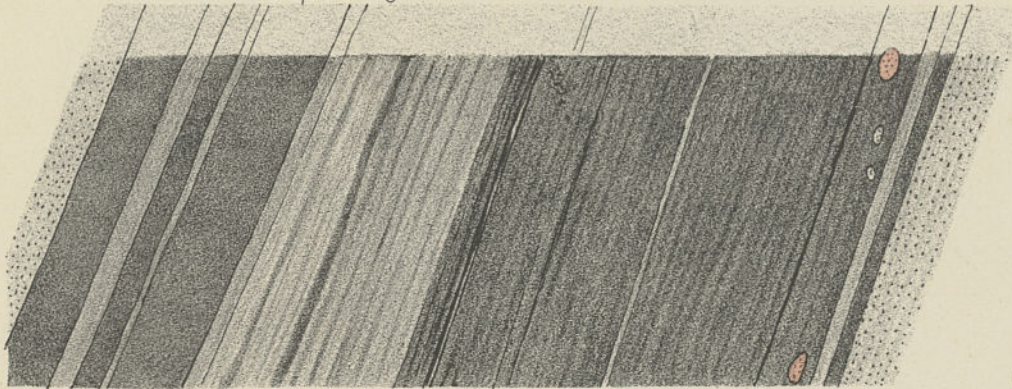


Fig. 8-Mines de Mouzeil

Couche 2.

Couche 1.

Couche 0.

→ Nord

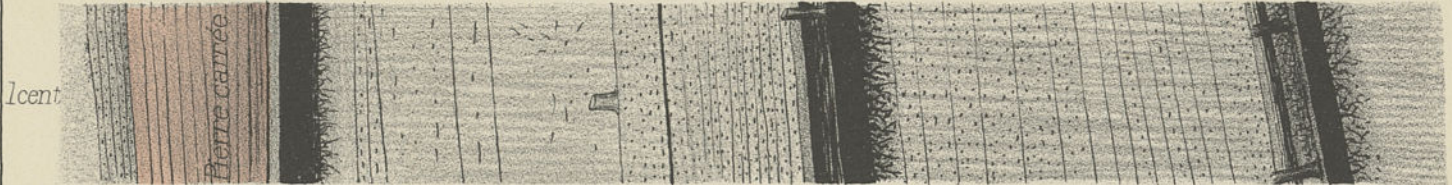


Fig. 11-Couche 2. mur.



Fig. 9-Couche 0.

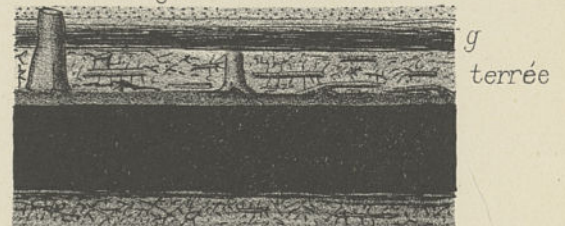


Fig. 12.

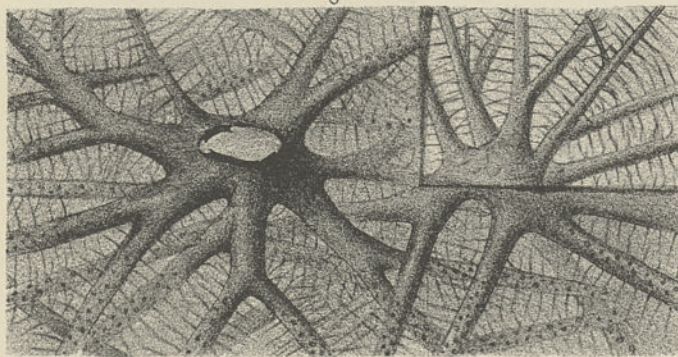
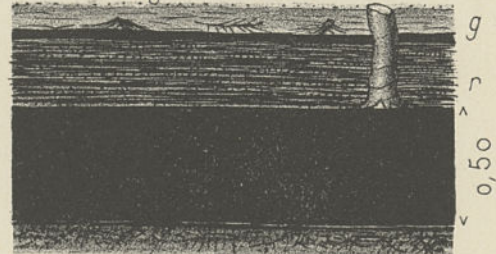


Fig. 10-Couche 1.



Ch. Béranger, éditeur, Paris.

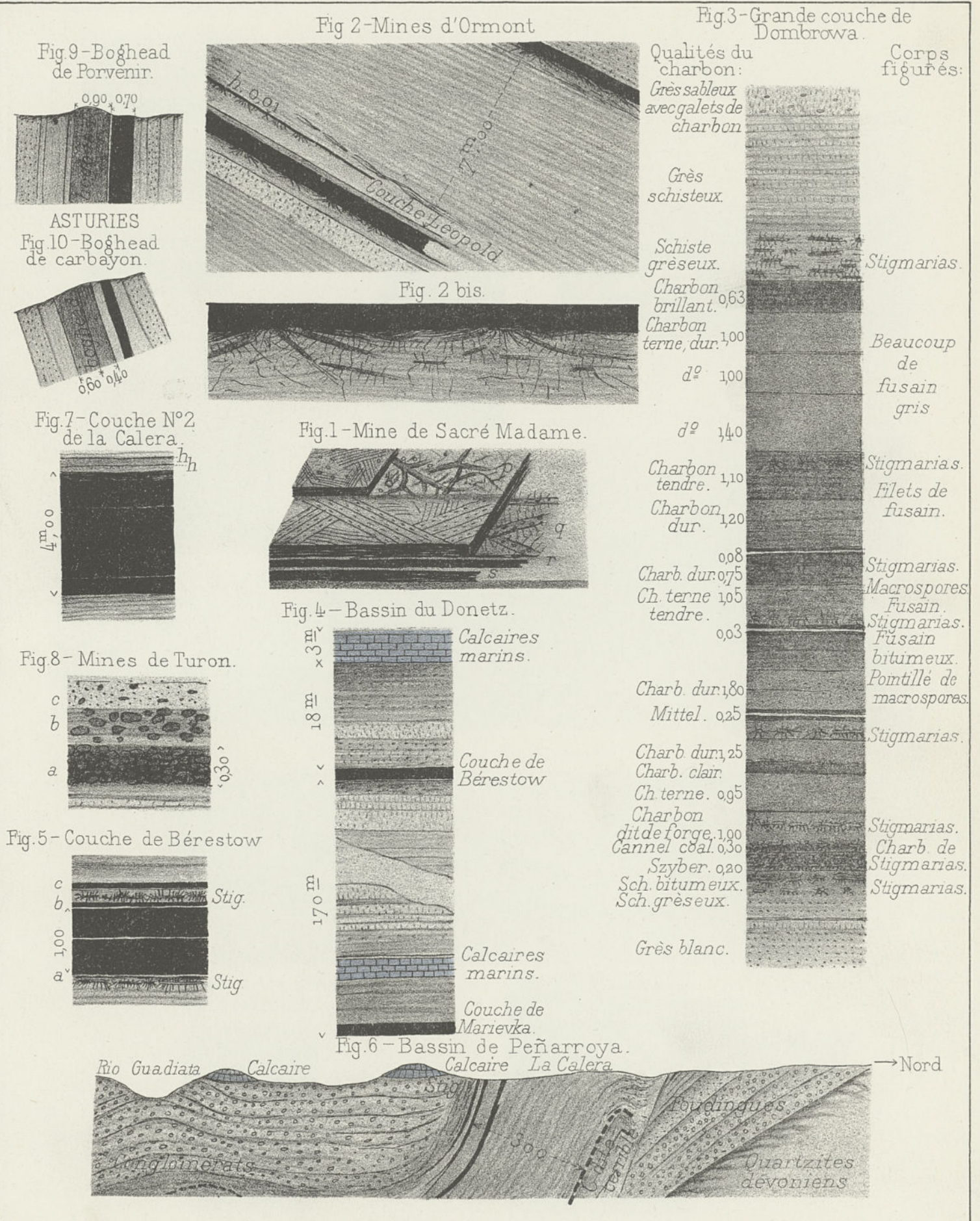
M. Bléjean Imp. Paris.

Dessiné par Grand'Eury.

# Couches de charbon Westphaliennes

Grand'Eury - Recherches géobotaniques sur la formation des couches de houille.

Pl. XXIX.



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Imp M. Bléjean

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# Couches de charbon suprahouillères et permienes.

Grand'Eury - Recherches géobotaniques sur la formation des couches de houille.

Pl. XXX.

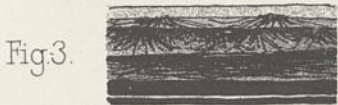


Fig. 4 - Forêt de Pécoptéris.



Fig. 5. Grande couche d'Avaise.

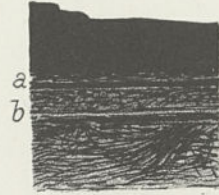


Fig. 6.

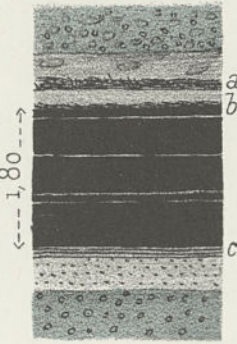


Fig. 7. Charbon et Forêt de Calamodendrons.

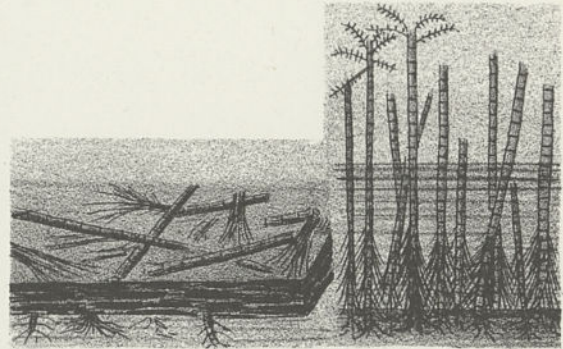


Fig. 8 - 3<sup>me</sup> Crue dite l'Italienne.

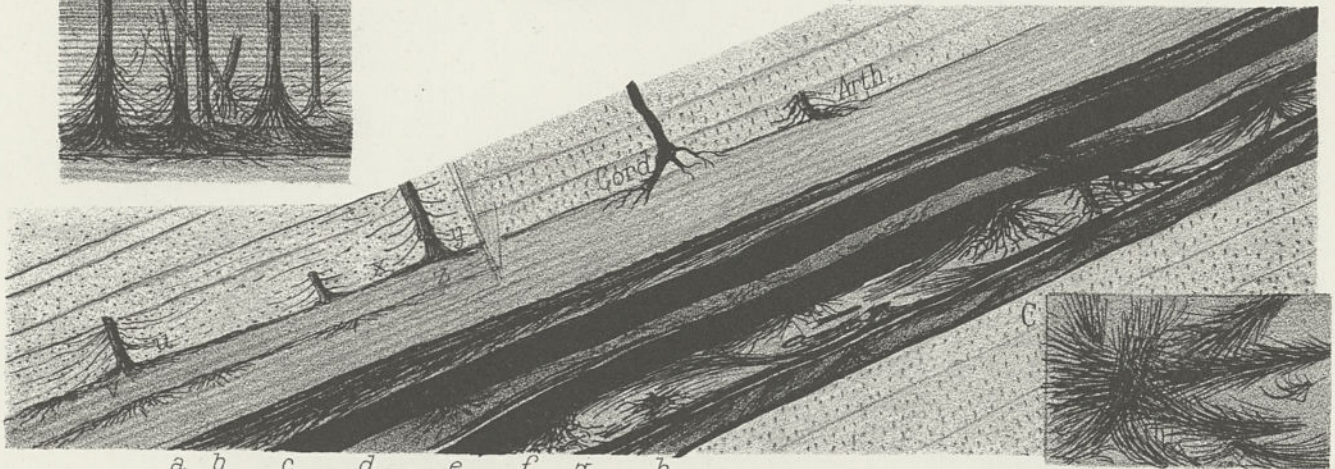


Fig. 9 - Mine de Blanzy.

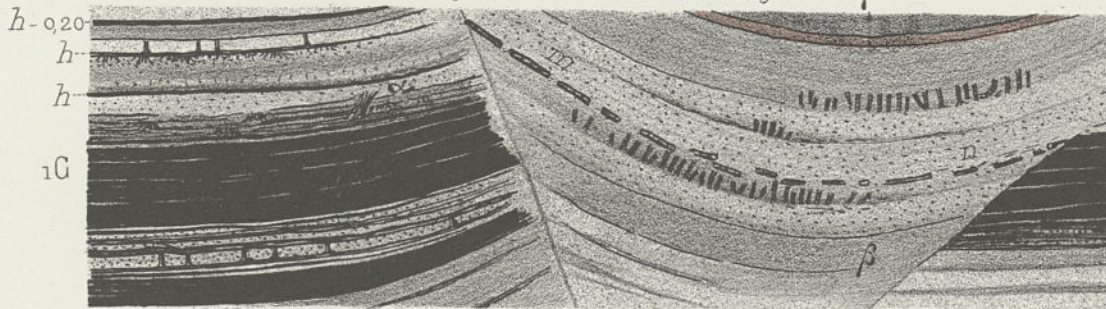
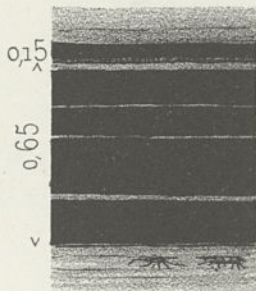


Fig. 11 - Anthracite permien de Budweiss.



Charbons permien

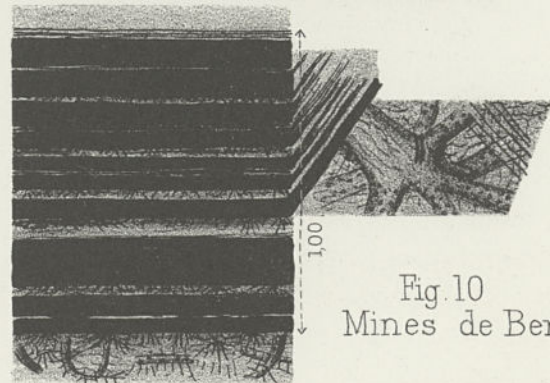


Fig. 10 Mines de Bert