

2BXYZ1OooO1Ffff Genus species GggSs.jpg^{*}, a proposal for a name-giving for nature-pictures with EPPO codes (<https://gd.eppo.int>)

^{*}where 2BXYZ=Prefix, 1OooO1Ffff & GggSs=EPPO codes

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 1. Introduction

 2. Principle for a name-giving of nature-pictures = "Prefix + EPPO codes"

 3. Aim of this paper : "Proposal of such prefixes"

 4. Utility for a quick search of pictures



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YA Introduction

Y "Nature-amateurs" take thousands of pictures every year and store them....

^ ... in a multitude of directories in their computer.

E.g. : "Garden", "walks", "holidays", "animals", "plants", "nature training"...

^ ... with a lot of different names.

E.g. for *Sinapis arvensis* :

"Sinapis", "wild mustard", "Kedlock", "Kelk", "Charlock", "Sené", "Sanve" etc.

Y They look for a method to recover easily nature-pictures stored in their computer or even on Internet.

Y How to do to store & search a picture of a specific species ?

This is what we propose to develop in this presentation.

2BXYZ = prefix, 10ooO = Order, 1Ffff = family, GggSs = EPP0 code of scientific name "Genus species"



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YA Principle of naming of nature-pictures

Y 1) The aim = Constantly use of a same name for a defined species.

General formula (see "Title") : 2BXYZ1OooO1Ffff Genus species GggSs.jpg
where "2BXYZ"= prefix, "1OooO1Ffff"=Order & Family,
"Genus species" =Latin name, "GggSs"=EPPO code, ".jpg"=File extension

Optionaly :

2BXYZ1OooO1Ffff Genus species, Français, English... GggSs Date Place.jpg

Y 2) No spaces between "prefix&taxons" = 2BXYZ1OooO1Ffff

Y 3) First character of prefix= "2"

^ inspired by EPPO that uses "1" before each taxon

^ avoids confusions with similar words



Y 4) Second character of prefix = "ABCD". "A"(=abiotic) or "B"(=biotic) or "C"(=cultural) or "D"(=durabilité (French) = sustainability (English))...
In this paper, we're only interested in **Biotic = "B"**.

Y 5) Limitation (if possible) of maximum **2 Eppo codes** in a name-giving.

Y 6) Next characters of **prefix** = a shortcut of taxons above the ranks of
1Ffff (Family) [or 10ooO1Ffff (Order Family)]

E.g. for *Sinapis arvensis* (<https://gd.eppo.int>) :

- Taxons above the rank "**Family**" are : **1PlaK1MagP1AngC1MavD1CapO**
Such a "shortcut" is unrealistic and has to be furthermore shortened
- This (to long) **prefix** becomes **2BPDH** (see further).
- A picture with "*Sinapis arvensis*" becomes : **2BPDH1CruF** *Sinapis arvensis* **SinAr.jpg**
where **2BPDH=prefix**, **1CruF=Family**, **SinAr=Eppo code**, **jpg = file extension**.



Y 7) For unusual pictures (at least for Nature-amateurs...),
taxons above the rank of genus are maintained. E.g. Protozoa = 2B1ProtK.

Y 8) Latin name "Genus species" (not constant)
follows 2BXYZ1Ffff and precedes GggSs (constant)

Y 9) Use of uppercase and lowercases
(at least in this paper to "highlight" the taxons).

- E.g. CheAl i/o CHEAL (Chenopodium album),
ColeO i/o 1COLEO Coleoptera (Order),
1AnimK i/o 1ANIMK Animalia (Kingdom)...



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Y **Λ** For NOT IMPORTANT **Kingdoms, Phylums, Classes...**

(at least for nature-amateurs...) the normal EPPO code follows "**2B**"

Y **2B1ArcaK** = Archaea

Y **2B1ChroK** = Chromista

Λ **2B1ChroK1OomyC**
= Oomycetes

Y **2B1ProtK** = Protozoa

Λ **2B1ProtK1MyxoP**
= Myxomycota
= BLOB

Y **2B1VirusK** = Virus & Viruoides

Y **Λ** IMPORTANT **1KkkK, 1PppP...**
for nature-amateurs (see next slides)

1KkkK Kingdom, **1PppP** Phylum, **1CccC** Classe...

1ChroK:Chromista (Règne)
1PsdF:Pseudofungi (Embranchement)
1OomyC:Oomyceta (Classe)
1PeroO:Peronosporales (Ordre)
1PeroF:Peronosporaceae (Famille)
1PhytG:Phytophthora (Genre)
PhytIn:Ph.infestans (Espèce)
= mildiou de la pomme de terre
NB : K=Kingdom, P=Phylum

2B1ChroK1OomyC Phytophthora infestans PhytIn.jpg



2B1ProtK1MyxoP 150606.jpg



Y **Λ** Animalia **1AnimK** : **Prefix** starts with "**2BA**"

Y **2BAI** = Invertebrata (see further)

Y **2BAV** = Chordata Vertebrata **1ChorP1VertQ** (see next slide)

Λ **2BAVM** = Mammalia **1MammC**

Λ **2BAVO** = Aves (birds) **1AvesC** ("O" i/o "A" like "Orntithology",
to avoid confusion with Amphibia)

Λ **2BAVP** = Actinopterygii **1ActnC** (like Pisces (fishes))

Λ **2BAVA** = Amphibia **1AmphC**

Λ **2BAVR** = Reptilia **1ReptC**



Y **2BAV** Vertebrata : Mammals & Ornitho (birds) = **2BAV-1OoooO1FfffF**



2BAVM1ErinO1ErinF Erinaceus europaeus,
Hérisson, hedgehog **ErnaEu.jpg**



2BAVO1AnseO1AnaxF Aythya fuligula,
Fuligule morillon, Tufted duck **AythFu.jpg**

2BA = Animals, **2BAVM** = Mammals, **2BAVO** = Ornitho
(Birds)

V1OoooO = Order, **1FfffF** = Family

1ErinO = Erinaceomorpha, **1ErinF** = Erinaceidae

1AnseO = Anseriformes, **1AnaxF** = Anatidae

Y 2BAV Vertebrata : Amphibia, Pisces & Reptilia = **2BAV-1Fffff**



2BAVA1RansF Rana temporaria, Grenouille rousse, Common frog **RansTe.jpg**



2BAVP1CypnF Cyprinus carpio, Carpe, Carp
CypnCa.jpg



2BAVR1AngiF Anguis fragilis, Orvet, Blind worm **AngsFr.jpg**

2BA = Animals, **2BAVP** = Pisces, **2BAVA** = Amphibia,
2BAVR = Reptilia

1CypnF = Cyprinidae

1RansF = Ranidae

1AngiF = Anguidae

Y 2BAIA = Animalia **Invertebrata Arthropoda** 1AnimK1ArthP

Unusual pictures for Nature-amateurs

^ 2BAIA1CrusQ = Crustaceae

^ 2BAIA1MyriQ = Myriapoda

Other Arthropoda
(usual pictures for Nature-amateurs)

^ 2BAIAC = 1CheIQ Chelicerata

▪ 2BAIACA = 1AracC Arachnida

^ 2BAIAH = 1HexaQ Hexapoda

▪ 2BAIAH1EntgC = Enthognathes

▪ 2BAIAHI = 1InseC Insecta

(See next slide)



2BAIACA1AranO1AgelF Agelena
labyrinthica AgleLa.JPG



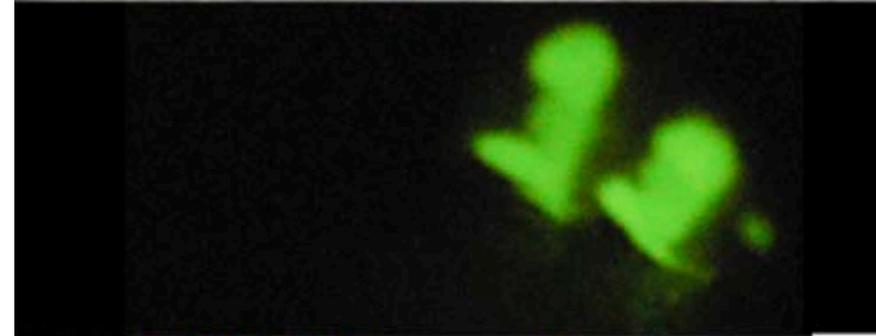
- **2BAIAHI** = **1InseC** Insecta

Usual pictures for Nature-amateurs

- **2BAIAHIC** = **1ColeO** Coleoptera
- **2BAIAHID** = **1DiptO** Diptera
- **2BAIAHIH** = **1HemiO** Hemiptera
- **2BAIAHIL** = **1LepiO** Lepidoptera
- **2BAIAHIO** = **1OdonO** Odonata

Less important Orders for Nature-amateurs

- **2BAIAHI1DrmpO** = Dermoptera
- **2BAIAHI1EphmO** = Ephemeroptera
- **2BAIAHI1HymeO** = Hymenoptera
- **2BAIAHI1MecoO** = Mecoptera
- **2BAIAHI1OrthO** = Orthoptera
- **2BAIAHI1TrcpO** = Trichoptera



2BAIAHIC1LampF Lampyris
noctiluca, Ver luisant,
Glow-worm **LampNo.jpg**

1LampF=Lampyridae



Y **Plantae1PlaK** : **Prefix** starts with "**2BP**"

Y **2BPA** = Algae (not an EPPO code (to complete))

Y **2BPB** = **1BryP** Bryophyta

- **2BPB1BryC** = Bryopsida
- **2BPB1GikP** = Ginkgophyta
- **2BPB1JngC** = Pellia
- **2BPB1MhtC** = Marchantia
- **2BPB1PoyC** = Acrocarpes
- **2BPB1ShgC** = Sphagnopsida

Y **2BPG** = Gymnospermae

= **1PinP1PinC1ConO** Pinophyta Pinopsida Pinales

- **2BPG1PinF** Pinaceae
- **2BPG1CupF** Cupressaceae etc.

Y **2BPP** = **1PteP** Pteridophyta

- **2BPPE1PteP** = Equisetopsida
- **2BPPP1PteC** = Pteridopsida

Y **2BP---** = **1MagP1AngC** Magnoliophyta Angiospermae (See next slide)



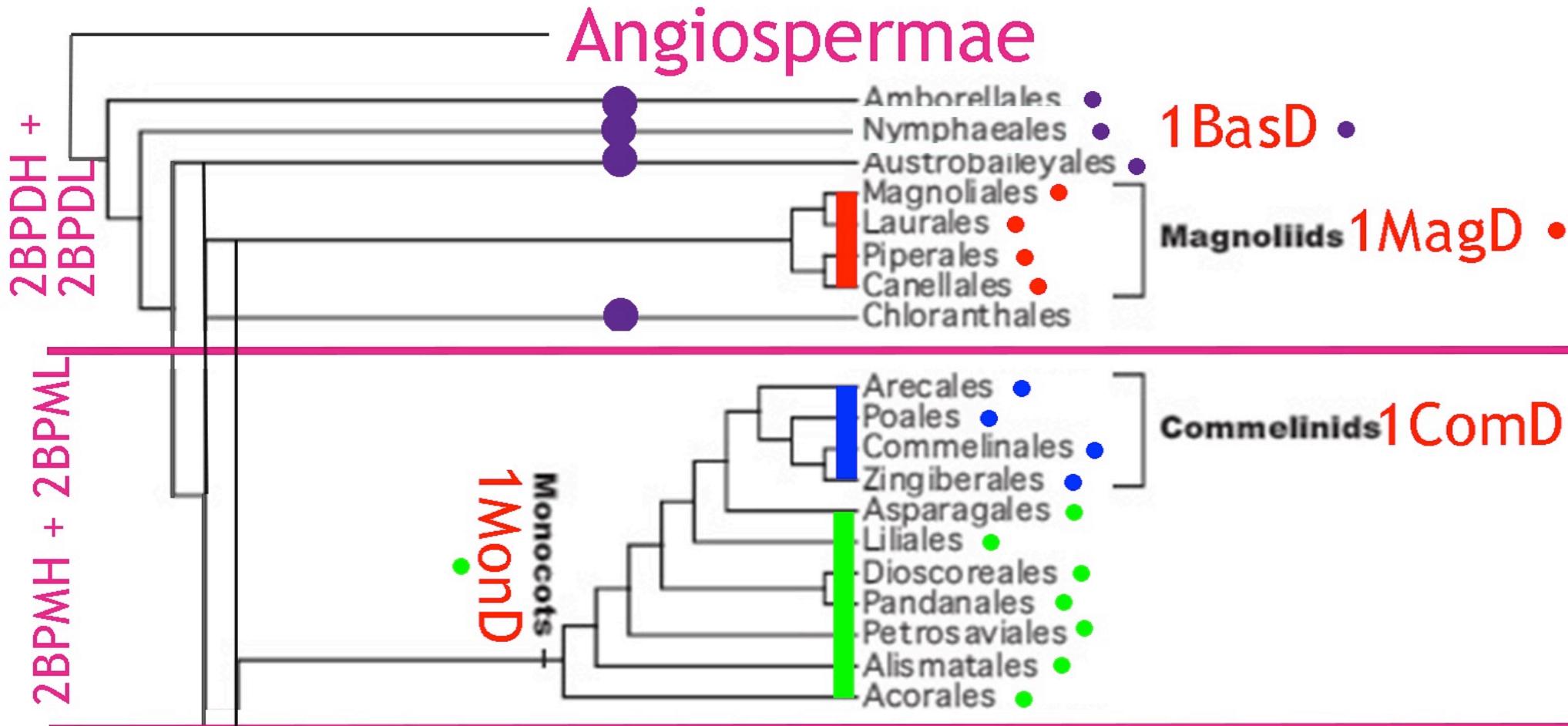
2BPB1ShgC1ShgF Sphagnum,
Sphaigne, Bog-mos **Shg--.jpg**

Y **2BP---** Magnoliophyta Angiospermae **1MagP1AngC**

Class of Angiospermae is divided in 12 categories (**APG IV**)

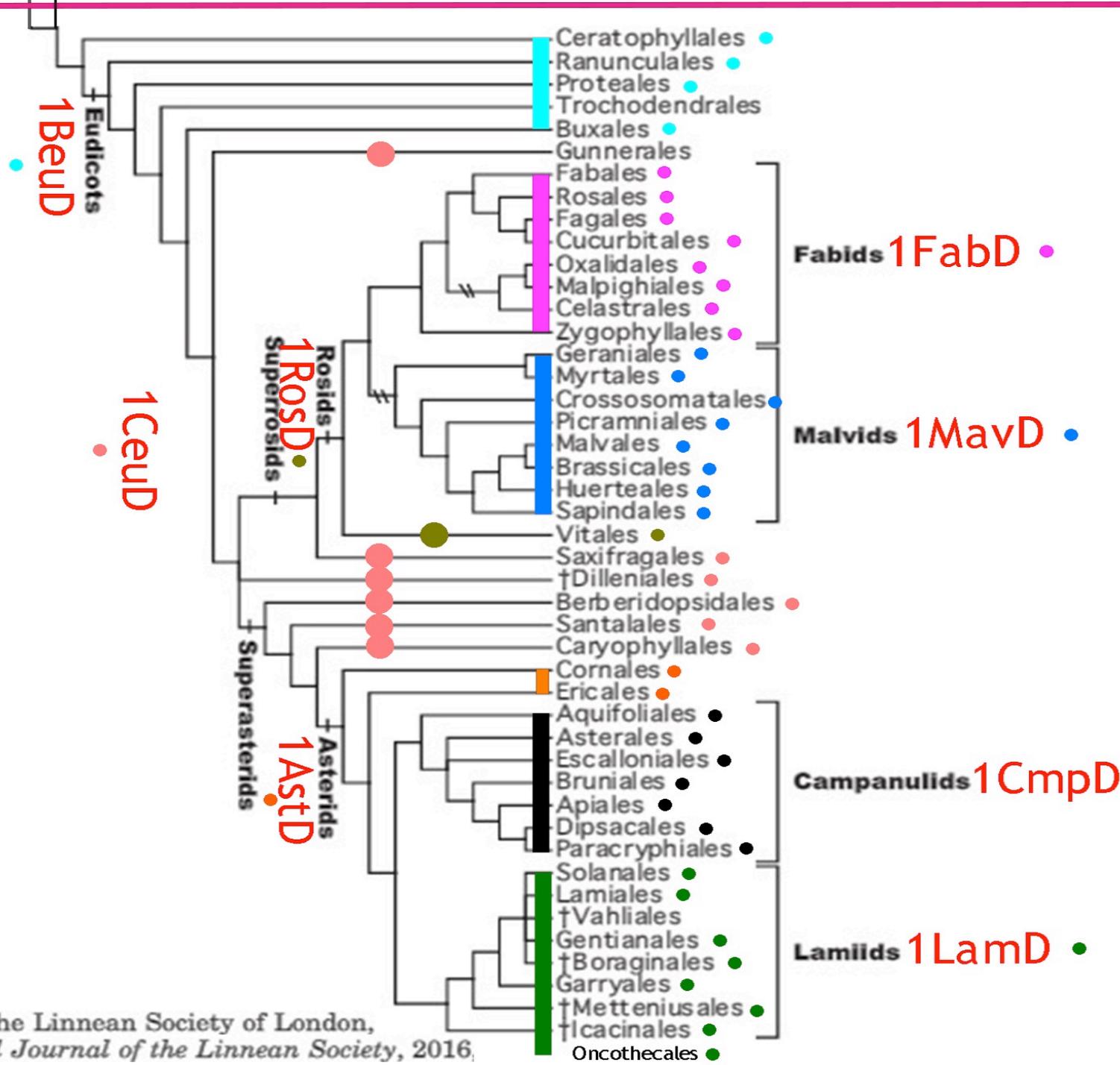
^ First group = Monoaperturate Pollen (**4 categories**)

- Basal angiosperms **1BasD** & Magnoliids **1MagD**
- Basal monocotyledons **1MonD** & Commelinids **1ComD**



3. Aim of this paper:
"Proposal
of such **prefixes**"

2BPDL + 2BPDL



Second group =
Triaperturate
Pollen
(8 categories)

- Basal eudicots
1BeuD
- Basal core eudicots
1CeuD
- Basal rosids
1RosD
- Fabids
1FabD
- Malvids
1MavD
- Basal asterids
1AstD
- Campanulids
1CmpD
- Commelinids
1ComD



Y 2BP--- Magnoliophyta Angiospermae 1MagP1AngC

The class of Angiospermae is divided into Monocotyledonae & Dicotyledonae
And each of those is classifiable into herbaceous & ligneous*

Y Proposed **prefixes** for Angiospermae

Λ 2BPD = Dicotyledonae

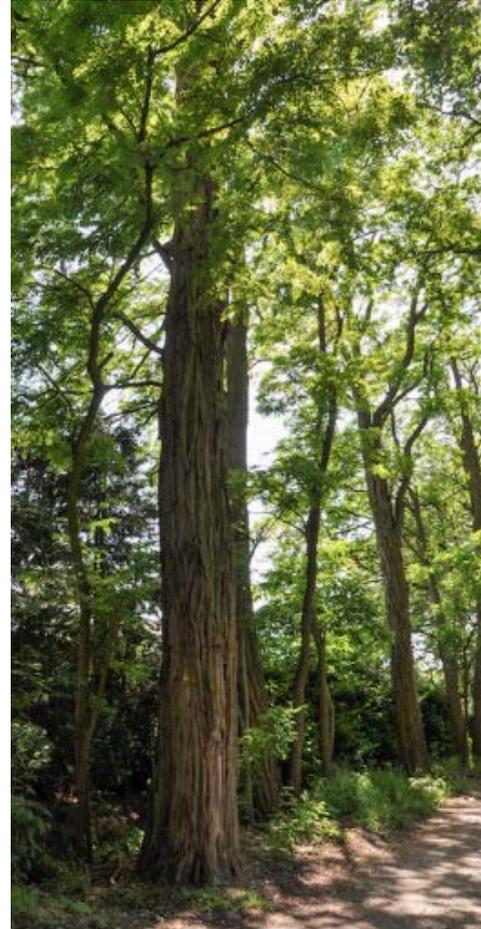
▪ 2BPDH = D. Herbaceae

▪ 2BPDL = D. Lignosae

Λ 2BPM = Monocotyledonae

▪ 2BPMH = M. Herbaceae

▪ 2BPML = M. Lignosae



2BPDH1LegF Vicia sativa,
Vesce commune, Common
Vetch VicSa.jpg



2BPDL1LegF Robinia
pseudoacacia, Robinier
faux-acacia , False acacia RobPs.jpg

* Flore Forestière Française

1LegF=Fabaceae

Y **Fungi 1FungK** : **Prefix** starts with "2BF"

Y Unusual groups

∧ **2BF1ChytP** = Chytridiomycota

∧ **2BF1ZygoP** = Zygomycota

Y Usual groups **Prefix1000001Ffff**

∧ **2BFA** = **1AscoP** Ascomycota

▪ **2BFAP** = **1PeziQ** Pezizomycotina

▪ **2BFAS** = **1SaccQ** Saccharomycotina

▪ **2BFAT** = **1TaphQ** Taphrinomycotina

∧ **2BFB** = **1BasiP** Basidiomycota

▪ **2BFBA** = **1BasiC** Agaricomycotina

▪ **2BFBP** = **1TeliC** Pucciniomycotina

▪ **2BFBU** = **1UstoC** Ustilagomycotina



2BFAP1Hypr01NecctF *Cylindrocladium buxicola*,
Dépérissement du buis, Box blight **CyldBu.JPG**



2BFBA1Agar01MyceF *Mycena pterigena*,
Mycène rosâtre, Ferny bonnet **MycePt.jpg**

Y **Λ** Lichens (also 1FungK) : **Prefix** starts with "**2BFL**"

- Y** **2BFLCo** = L. complexe
- Y** **2BFLCr** = L. crustacé
- Y** **2BFLFc** = L. folicole
- Y** **2BFLFI** = L. foliacé
- Y** **2BFLFr** = L. fruticuleux
- Y** **2BFLLe** = L. lépreux
- Y** **2BFLSq** = L. squameux

(apart from the first letters of the prefix, same way as for **2BF**) :
E.g.
A=Ascomycota, B=Basidiomycota...



2BFLFcA1TelsO11TelsF Xanthoria parietina
XnthPa 170709.**JPG**

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NecoVe



2BAIAHIC1SilpF Necrophorus vespillo, Nécropore, Krompootdoodgraver NecoVe 140509.3.JPG

- Images
-  2BAIAHIC1silpF Necrophorus vespillo, Nécropore, Krompootdoodgraver NecoVe 140509.1.JPG
 -  2BAIAHIC1SilpF Necrophorus vespillo, Nécropore, Krompootdoodgraver NecoVe 140509.2.JPG
 -  2BAIAHIC1SilpF Necrophorus vespillo, Nécropore, Krompootdoodgraver NecoVe 140509.3.JPG
 -  2BAIAHIC1silpF Necrophorus vespillo, Nécropore, Krompootdoodgraver NecoVe 140821.1.jpg
 -  2BAIAHIC1silpF Necrophorus vespillo, Nécropore, Krompootdoodgraver NecoVe 140821.2.jpg
 -  2BAIAHIC1silpF Necrophorus vespillo, Nécropore, Krompootdoodgraver NecoVe 140905.jpg

YΛ1. Quick search of a precise species using its scientific name or EPPO code

Y E.g. *Necrophorus vespillo* OR NecoVe

NecoVe = EPPO code of *Necrophorus vespillo*



1Orth0



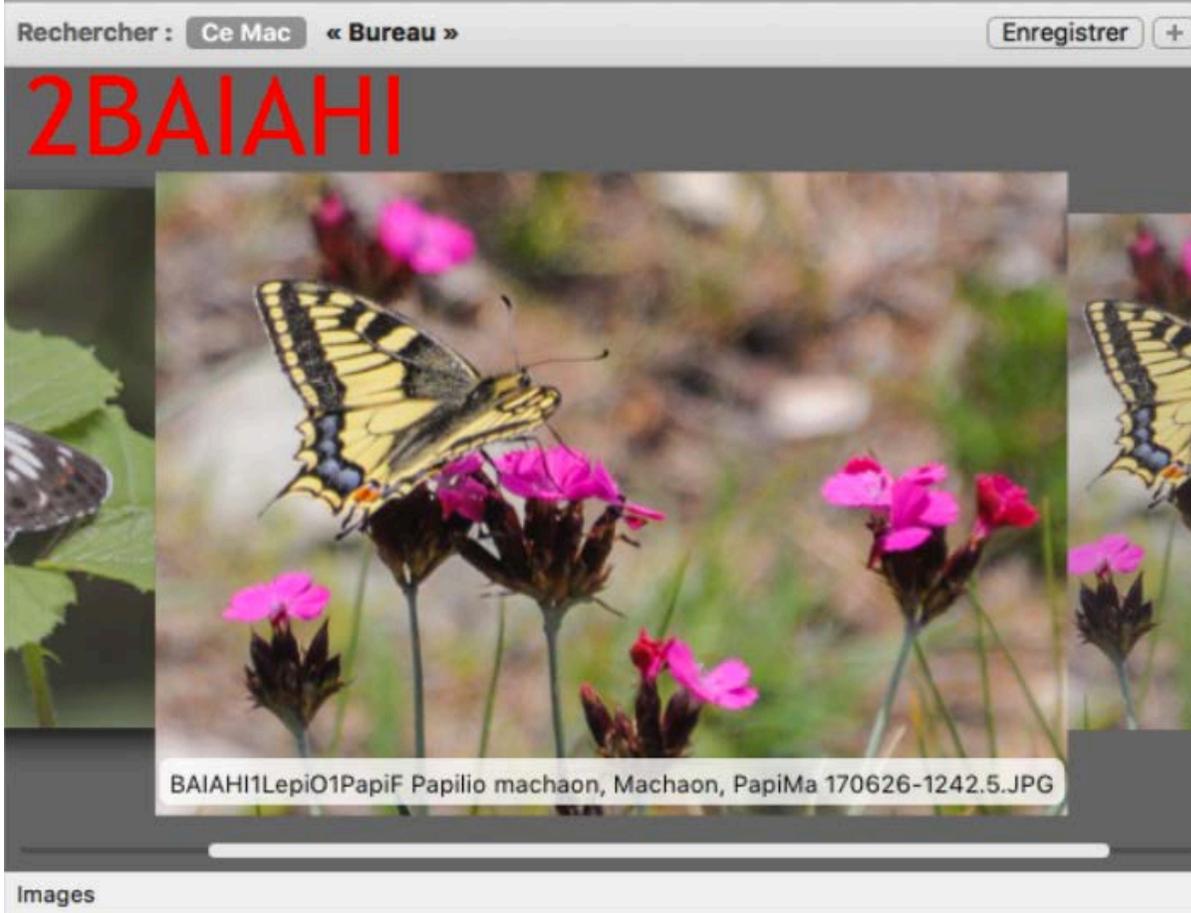
- Images
-  2BAIAHI1Orth01TettF Pholidoptera griseoptera, Decticelle cendrée PhdpGr 150729.1.JPG
 -  2BAIAHI1Orth01TettF Pholidoptera griseoptera, Decticelle cendrée PhdpGr 150729.2.JPG
 -  2BAIAHI1Orth01TettF Pholidoptera griseoptera, Decticelle cendrée PhdpGr 150729.2.JPG
 -  2BAIAHI1Orth01TettF Pholidoptera griseoptera, Decticelle cendrée PhdpGr 150729.3.JPG
 -  2BAIAHI1Orth01TettF Tettigonia cantans, Sauterelle cymballière TttaCa 150705.1.JPG
 -  2BAIAHI1Orth01TettF Tettigonia cantans, Sauterelle cymballière TttaCa 150705.2.JPG

Y 2. Quick search of families (and species) belonging to an Order, using an EPP0 code or a **prefix 2BXYZ**.

Y E.g. : **1Orth0** or **2BAIAHI1Orth0** to find the families and species belonging to the Order of **Orthoptera**.

2B=first characters of a **prefix**.
AIAHI = Animal Invertebrates
 Arthropoda Hexapoda Insecta





4. Utility for a quick search of pictures

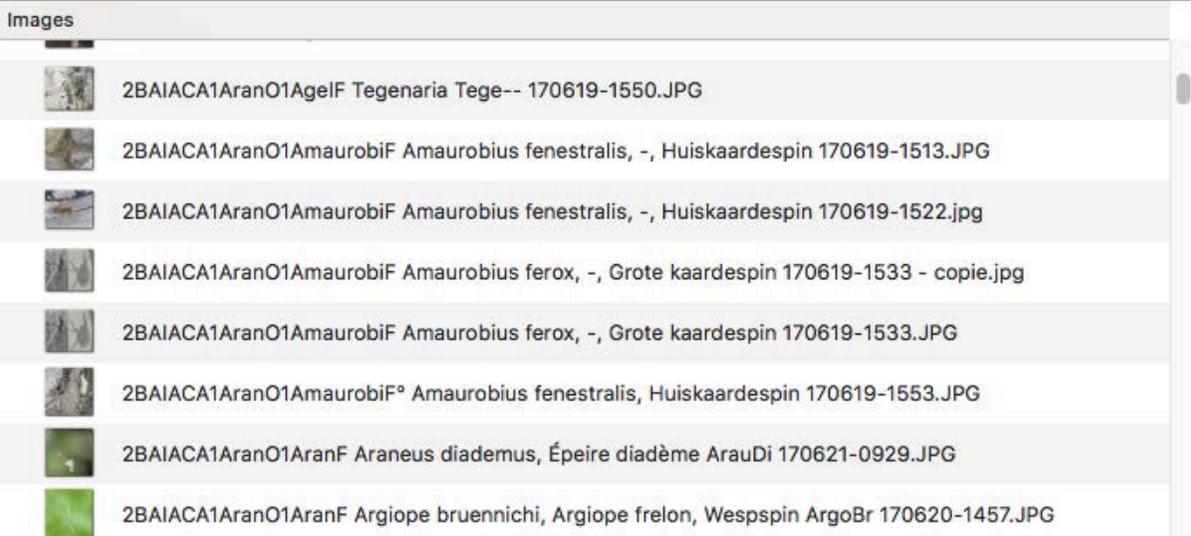
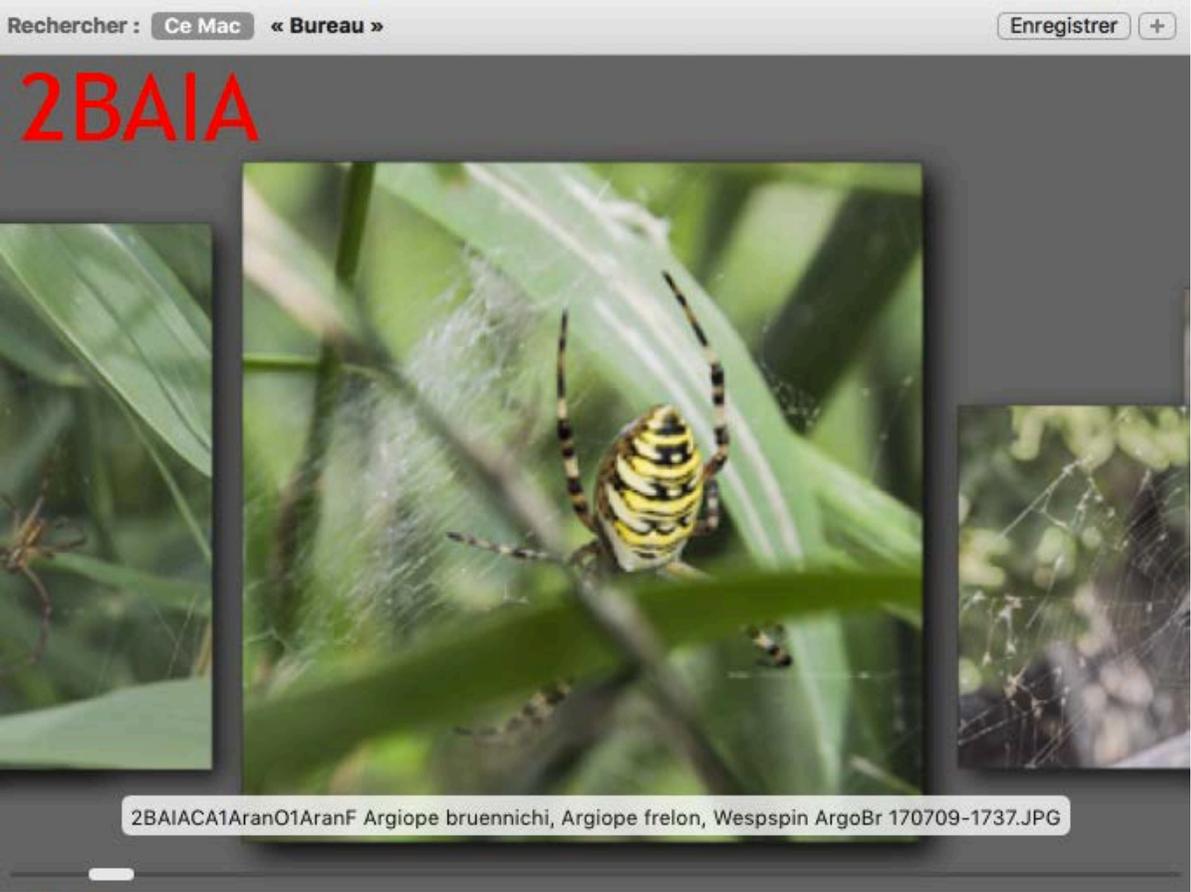
Y 3. Quick search of taxons (and species) belonging to an Class, using a **prefix 2BXYZ**.

Y E.g. : **2BAIAHI** to find all the taxons and species belonging to the Class of **Insecta**.

2B=first characters of a prefix.

AIAHI = Animal Invertebrates
Arthropoda Hexapoda Insecta





4. Utility for a quick search of pictures

YA 4. Quick search of taxons (and species) belonging to a Phylum, using a **prefix 2BXYZ**.

Y E.g. : **2BAIA** to find all the taxons and species belonging to the Phylum of **Arthropoda**.

2B=first characters of a prefix.
AIA = Animal Invertebrates
Arthropoda



2BAI



2BAIA1CrusQ1BalaF Balanus crenatus, Balane crénelée, Gekerfde zeepok Bals-- 170831-1928.jpg

Images

-  2BAIA1ChelQ_AV, 07.1428.2.JPG
-  2BAIA1ChelQ_AV, 07.1429.2.JPG
-  2BAIA1ChelQ_AV, 07.1431.4.JPG
-  2BAIA1ChelQ, Arraignée sp., 23.1650.JPG
-  2BAIA1ChelQ1AracC1AranF Aculepeira Acue-- 170627-1316.JPG
-  2BAIA1ChelQ1AracC1AranF Aculepeira Acue-- 170627-1318.1.JPG

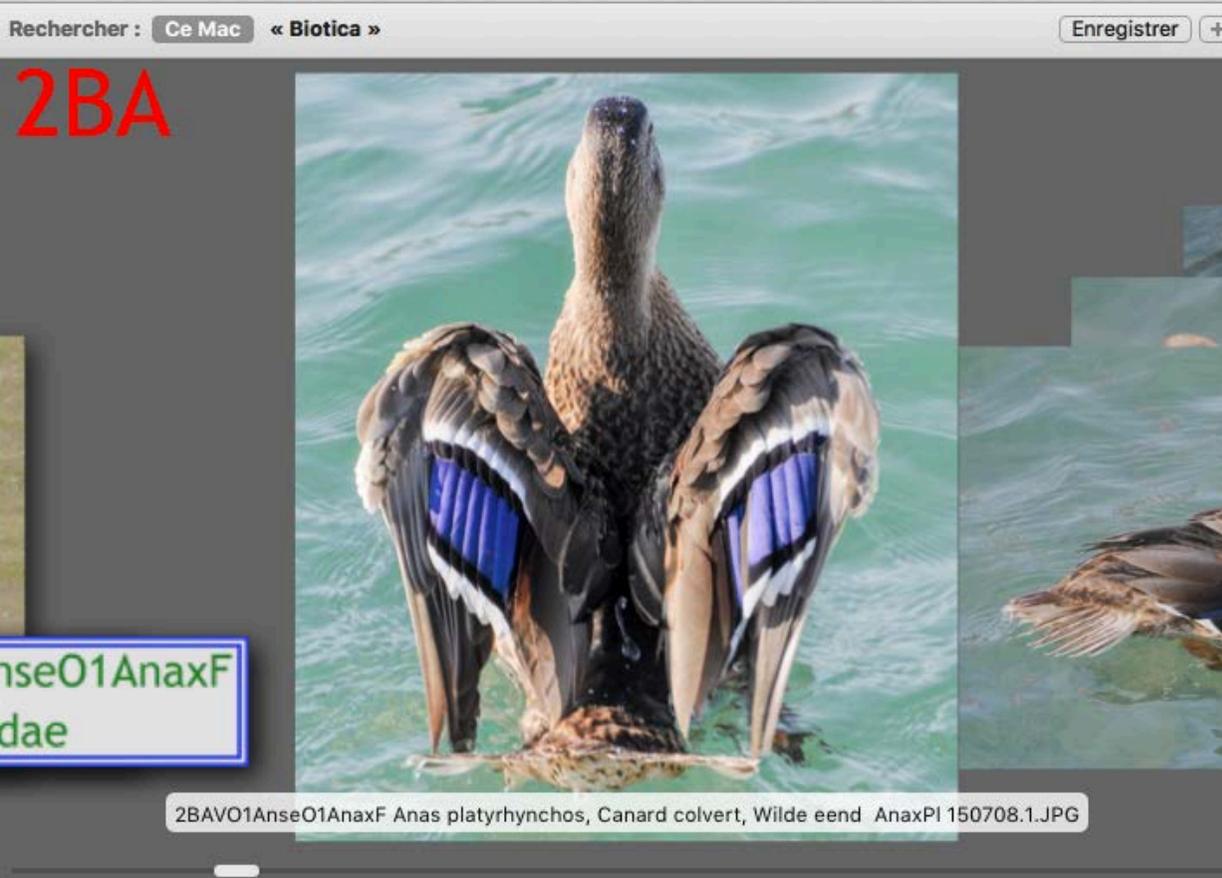
4. Utility for a quick search of pictures

YA 5. Quick search of taxons (and species) belonging to a taxon (non coded by EPPO), using a **prefix 2BXYZ**.

Y E.g. : **2BAI** to find all the taxons and species belonging to the **Invertebrata**.

2B=first characters of a prefix.
AI = Animal Invertebrates





- Images
-  2BAVO1AnseO1AnaxF Anas platyrhynchos, Canard colvert, Wilde eend AnaxPI 150708.1.JPG
 -  2BAVO1AnseO1AnaxF Anas platyrhynchos, Canard colvert, Wilde eend AnaxPI 150708.2.JPG
 -  2BAVO1AnseO1AnaxF Anas platyrhynchos, Canard colvert, Wilde eend AnaxPI 150708.3.JPG
 -  2BAVO1AnseO1AnaxF Anas platyrhynchos, Canard colvert, Wilde eend AnaxPI 150708.4.JPG
 -  2BAVO1AnseO1AnaxF Anas platyrhynchos, Canard colvert, Wilde eend AnaxPI 150708.5.JPG
 -  2BAVO1AnseO1AnaxF Anas platyrhynchos, Canard colvert, Wilde eend AnaxPI 170709-1817.JPG
 -  2BAVO1AnseO1AnaxF Anas platyrhynchos, Canard colvert, Wilde eend AnaxPI 170711.1 Grootbroek StAR.JPG
 -  2BAVO1AnseO1AnaxF Anas platyrhynchos, Canard colvert, Wilde eend AnaxPI 170711.2 Grootbroek StAR.JPG

4. Utility for a quick search of pictures

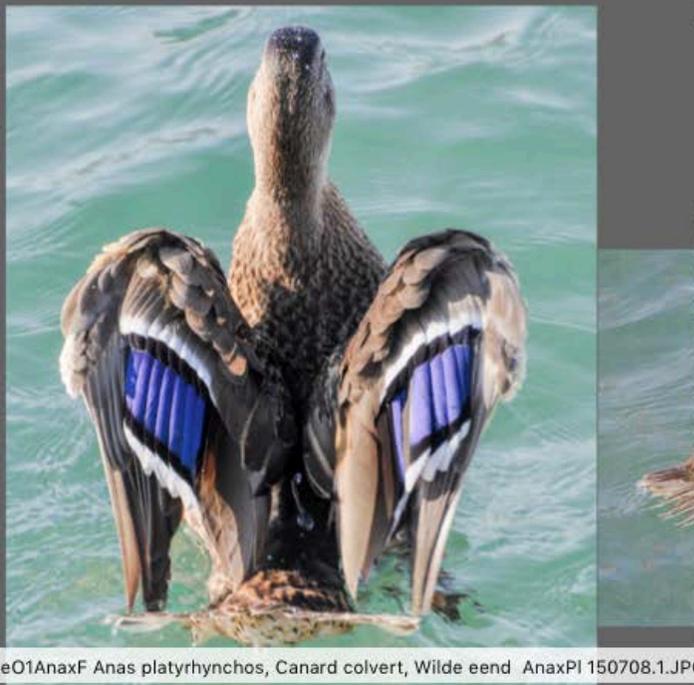
Y 6. Quick search of taxons (and species) belonging to a Kingdom, using a **prefix 2BXYZ**.

Y E.g. : **2BA** to find all the taxons and species belonging to the **Animalia**.

2B=first characters of a prefix.
A = Animalia



2B



AnseO1AnaxF
dae

2BAVO1AnseO1AnaxF Anas platyrhynchos, Canard colvert, Wilde eend AnaxPI 150708.1.JPG

2A



2ATG Carrière St-Joseph à Fumay 170903-1122.2.jpg

Images

- 2BAVO1AnseO1AnaxF Anas platyrhynchos, Canard colvert, Wilde eend AnaxPI 150708.1.JPG
- 2BAVO1AnseO1AnaxF Anas platyrhynchos, Canard colvert, Wilde eend AnaxPI 150708.2.JPG
- 2BAVO1AnseO1AnaxF Anas platyrhynchos, Canard colvert, Wilde eend AnaxPI 150708.3.JPG
- 2BAVO1AnseO1AnaxF Anas platyrhynchos, Canard colvert, Wilde eend AnaxPI 150708.4.JPG
- 2BAVO1AnseO1AnaxF Anas platyrhynchos, Canard colvert, Wilde eend AnaxPI 150708.5.JPG
- 2BAVO1AnseO1AnaxF Anas platyrhynchos, Canard colvert, Wilde eend AnaxPI 170709-1817.JPG
- 2BAVO1AnseO1AnaxF Anas platyrhynchos, Canard colvert, Wilde eend AnaxPI 170711.1 Grootbroe
- 2BAVO1AnseO1AnaxF Anas platyrhynchos, Canard colvert, Wilde eend AnaxPI 170711.2 Grootbroe
- 2BAVO1AnseO1AnaxF Anas platyrhynchos, Canard colvert, Wilde eend AnaxPI 170711.3 Grootbroe

Nom

- 2ATG _Montagnes vues de Chandolin, Google Earth.jpg
- 2ATG Ancien glacier, Zinal 170627-1222.1.JPG
- 2ATG Ancien glacier, Zinal 170627-1222.2.JPG
- 2ATG Besso, Zinal 170627-1602.JPG
- 2ATG Carrière d'Olloy sur Viroin 170620-1145.JPG
- 2ATG Carrière d'Olloy sur Viroin 170620-1146.JPG
- 2ATG Carrière St-Joseph à Fumay 170903-1052.jpg
- 2ATG Carrière St-Joseph à Fumay 170903-1122.1.jpg
- 2ATG Carrière St-Joseph à Fumay 170903-1122.2.jpg

4. Utility for a quick search of pictures

YA 7. Quick search of taxons (and species) belonging to the "living world"

= prefix 2B

B=Biotic

A=Abiotic

2B=prefix of "living world"



YA Keep up of a (sharable...) Excel file with photographed species

D	E	F	H	I
2BPD1CrIF				
2BPD1CrIF <i>Corylus avellana</i>	CylAv	Noisetier (= Coudrier)		Corylaceae
2BPD1EbeF				Ebenaceae
2BPD1EbeF <i>Diospyros kaki</i>	DosKa	Plaquemenier		
2BPD1ElaF				Elaeagnaceae
2BPD1ElaF <i>Hippophae rhamnoides</i>	HioRh	Argousier		
2BPD1EriF				Ericaceae
2BPD1EriF <i>Arctostaphylos alpinus</i>	AryAl	Raisin d'ours des Alpes		
2BPD1EriF <i>Arctostaphylos uva-ursi</i>	AryUu	Raisin d'ours		
2BPD1EriF <i>Calluna vulgaris</i>	CunVu	Bruyère commune		
2BPD1EriF <i>Erica tetralix</i>	EiaTt	Bruyère des marais (= B. tétragone = B. à quatreangles = B. quaternée)		
2BPD1EriF <i>Rhododendron ferrugineum</i>	RhoFe	Rhododendron ferrugineux		
2BPD1EriF <i>Rhododendron ponticum</i>	RhoPo	Rhododendron pontique (= R. d'Asie mineure)		
2BPD1EriF <i>Vaccinium myrtillus</i>	VacMy	Myrtille		
2BPD1EriF <i>Vaccinium vitis-idaea</i>	VacVi	Airelle rouge		
2BPD1FagF				Fagaceae
2BPD1FagF <i>Castanea sativa</i>	CsnSa	Châtaignier		
2BPD1FagF <i>Fagus sylvatica</i>	FauSy	Hêtre commun		
2BPD1FagF <i>Quercus pubescens</i>	QuePu	Chêne pubescent		
2BPD1FagF <i>Quercus palustris</i>	QuePa	Chêne des marais		
2BPD1FagF <i>Quercus petraea</i>	QuePe	Chêne sessile (=Ch. rouvre)		
2BPD1FagF <i>Quercus robur</i>	QueRo	Chêne pédonculé		
2BPD1FagF <i>Quercus rubra</i>	QueRu	Chêne rouge d'Amérique		
2BPD1GenF				Gentianaceae
2BPD1GenF <i>Gentiana acaulis</i> , <i>Gentiane acaule</i> , <i>Kochs gentiaan</i> GetAc				
2BPD1GenF <i>Gentiana verna</i> , <i>Gentiane printanière</i> GetVe				
2BPD1GroF				Grossulariaceae
2BPD1GroF <i>Ribes nigrum</i>	RibNi	Cassissier (= Groseillier noir)		
2BPD1GroF <i>Ribes rubrum</i>	RibRu	Groseillier à grappes (=Gr. rouge)		
2BPD1GroF <i>Ribes sanguineum</i>	RibSa	Groseillier		
2BPD1GroF <i>Ribes uva-crispa</i>	RibUc	Groseillier à maquereau		
2BPD1JugF				Juglandaceae

If you've ideas to improve
this system of
Name-giving for nature-pictures
with EPP0 codes,
thanks to contact us at
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