

II. *An Account of Mr. Sam. Brown his Sixth Book of East India Plants, with their Names, Vertues, Description, &c.* By James Petiver, Apothecary, and Fellow of the Royal Society.

To these are added some Animals, &c. which the Reverend Father George Joseph Camel, very lately sent him from the Philippine Isles.

THE following Plants being less known, and more enquired for by Curious Persons, I took them out of several Books at different Seasons and placed them here together.

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Myrobalanus Indici Ger. 1316. Fig. 4.
The Yellow and Black Myrobalans.

This the Natives say purges Cholera, and cures the Jaundice,
D d d d d d either



Jonst Dend.
Tab.
 1 B. l. 2. p.
 201. Fig. 1.
 p, 20. 4.

either in Powder or Decoction; an Infusion in Cow-piss, cures *Dropsies* of all sorts. The *Fruit* well roasted and eaten with *Jagree* cures *Bloody Fluxes*, and with *Honey* cures *Cough* and *Astma*. These serve for a hundred things more, mixt with other *Phyick*.

The *Fruit* when fresh are smooth and oval, when half ripe, *Green*, when full ripe some are *Yellow*, some *Purplish*, according as they respect the Sun or Shade. Either green or ripe, they have a very harsh taste. They grow 15 or 16 foot high, and almost a foot diameter. *S. B.*

S. B. 228.

228. Taune-Cai-Malab.

Myrobalanus Bellerica *Officinarum* Dale Pharm. 444. 4. *Ger.*
 Dale 444. 4. *Ger.* 1316. Fig. 1316. Fig. *Ger.* cm. 1500. Fig. *Park.* 247 Fig. 3. *Ray H. Pl.*
Ger. cm 1500. 1532 5. *Myrobalani rotundæ* *Bellericæ* *CB.* 445. 3. *Bell* rotun-
Fig. *Park.* 247. 1532 5. *Myrobalani rotundæ* *Bellericæ* *CB.* 445. 3. *Bell* rotun-
Fig. 3. *diodes* *IB.* l. 2. 201. Fig. & 206. *desc.* *IB.* pr. 7. l. 19. *Bellericæ*
Ray H. Pl. *Chabr.* 13. Fig. 6. *an Tani Malab.* *Gottinga Brach.* *Biborala Lu-*
 1532. 5. *fit,* *Heylpeeren Belg.* *Hort. Malab.* Vol. 4. *Tab.* 10. p. 23. *Ray*
C. B. 445. 3. *H. Pl.* 1547. c. 53.

The *Natives* say the Decoction with *Jagree* cures the *Gonor-*
 1 B. pr. 7. l. 19. *rhea.* See its other *Vertues*, in *Mr. Sam. Brown* his 3d Book of
Chabr. 13. Fig. 6. the *Phil. Transact.* No 271. p. 844. 96.

S. B. 3. 96. Of *Myrobalans* the *Natives* say the *Woods* hereabout produce
H. Mal. v. 4. 7 sorts, (besides the *Billerica* and *Embllica*, which they do not
Tab. 10. p. 23. reckon of this *Species*) which are, *viz.*
Ray H. Pl. 1547. c. 53.

1. *Carcai* or *Myrobalanus Citrina.* *S. B.* 227.

2. *Pala Carcai*, this I cannot get a good *description* of as yet.

3. *Pinge Carcai* *Myrobalanus Indica.*

4. *Deavatai Carcai* *Myrobalanus Cebula.*

5. *Shuracai Carcai.* They say is a finger long, and 2 or 3 thick.

6. *Neapaula Carcai.* No good *description* of this as yet.

Danmantree Carcai. This it's said is as big as the *Cydonia In-*
dica, and like it both in form and smoothness. This they say
 will purge as many times as it's smelt to: In the Prosperity of
St. Thomas they were sold for 2 *Rupees* apiece; I am told that a
Moor whose Name is *Emann Begg* has one of these, and if so, I'll
 procure a sight of it. If these grow hereabout, as I am informed,
 I'll procure them. nay, if within 200 miles of this place. Three
 sorts I have now procured, and sent their *Specimens*, *viz.* the
Myrob, *Citrina* and *Bellerica* in this sixth book of odd Plants, and
 the *Embllica* in the 3d No 106. I shall shortly have the *Mirob.*
Indica, and then I'll send it. *S. B.*

Since

Since I made these Collections, I went again up the country, and in my way call'd at *Sange veras Pollum*, where many of the *Citrin Myrobans*, or *Carcai* Trees grow, and saw them gather the tender Fruit of the said Trees, which the Wind blew down on the ground ; these the *Natives* having dried well in the Sun differed nothing from the *Myrobalanus Indica* ; the *Natives* also affirmed they were the *Pinge Carcai*, so that the *black* and *citrin Myrobalan* do both grow on one Tree. Of this after further enquiry will send a fuller account.

But I can't forbear adding, that what *Parkinson* condemns for an Error in *Mesue*, may not be so ; the last asserts that the *Chebula*, *Citrina* and *Indica* grow all on the same Tree ; the 2 last I know do, and it may be the first do so too, in the fertile soils of *Arabia* and *Persia* : (*India*, at least the Sea Coasts are sterile in comparison with them) but here the *Citrin Myrobalans* which grow in rich grounds, both Tree and Fruit is larger than the common, and tho the Fruit is not quite so large as those that come from the borders of *Persia*, or inland richer Soyls, yet are very much alike as to form, substance or taste. S. B.

229. Chandana-Maraum Malab.

S. B. 229.
Mus. Petiver

Santalum album & *Citrinum Officinarum*.

Baccifera Madraspatana Glycyrbizæ foliis, fructu coronato *Mus-*
Petiver. 37. *Santalum album* and *pallidum* C B. 392. 1, 2. *album*
& *citrinum* *Park.* 1605. c. 47. *IB.* l. 4. 486. Fig. *Chabr.* 36. Fig. 5, 47.
6. *Dale* 478. 1. 2. *Pomet* l. 3. 107. c. 3. *Ger.* 1388. *Ray H. Pl.* 1804. *Santalum verum ligno citrino* & *albo*, foliis *Laurinis* *Breyn*
prodr. 2. 88. 1. WHITE and YELLOW SANDERS.

37.
C B. 392. 1. 2.
Park. 160. 5. c.
IB. l. 1. 4 486.
Fig. Chabr.
36. Fig. 5. 6.
Dale 478. 1.
1. Pomet. l.
3. 107. c. 3.
Ger. 1388.
em.
Ray H Pl.
1804. Breyn.
pr. 2. p. 88. 1.
N. B.

Grows 40 or 50 foot high, and a foot or more diameter. The Sanders is only the heart of the Tree, the Sap is very large, almost equal to that of *Ebony*. The *Natives* use the *Decoction* as a Specific in *Consumption* and *Hectick Feavers*, outwardly they anoint with it, ground in *Rose-water*, to allay heat, and for the smells sake.

2. Pomet. l.
3. 107. c. 3.
Ger. 1388.
em.
Ray H Pl.
1804. Breyn.
pr. 2. p. 88. 1.
N. B.

The *White Sandal* or *Sanders* is only the yellow fell'd too soon before 'tis ripe, which is Cordial and Cooling.

S. B. 6. 230.
S. B. 2. 71.

The *Natives* reckon 3 sorts of *Sandal* or *Sanders*, viz. 1st, This. 2dly, *Red Sanders*. S. B. 6. 230. 3dly, *Black Sanders*, S. B. 2. 71.

230. Chum-maraum Malab.

S. B. 230
Mus. Petiv.

Santalum rubrum quibusdam, *Arbor Orientalis Ponnæ* facie *Mus-*
Petiver. 679. INDIAN RED SANDERS.

679.

This grows 16 or 18 foot *high* and one *thick*: Here is neither *Fruit* nor *Flower*, but I will get them by the next opportunity; The *Decoction* of the *Wood* expels *Wind*, eases *Gripes*, and is something cooling, corrects *Choler* and purifies the *Blood*: Tis where it grows in the *Woods* counted a general *Panacea*. S. B.

S. B. 231.

231. Mungle Malab. Veadaru Gent. BAMBU.

Bambu Indica Sparganii capitulis, verticillis dispositis.

This grows 40, and sometimes 50 foot *high*, and 6 inches *diameter*, the *Seed* is like *Sesamum* (or *Gingelle*, as the *Malabars* call it) which I will send another time. A *Decoction* of the *Leaves* and *Rind* dissolves clotted *Blood*, provokes the *Lochia*, and is mixt with other *Pbyfick*, for many things: The *Salt* or white substance found within the *Bambu*, breaks the *Stone*, and provokes *Urine*. S. B.

S. B. 132.

232. Coche Tammartia Malab.

Bilimbi Malabarica *Pajomirioba* folio.

Ray H. Pl.

1449. 7.

H. Mal. V. 3.

Tab. 45. 6. p. 55

Bont. 133. Fig.

Zan. 17. & 25.

Pl. Mal. 167. 5

Id. Fol. 42. 2. 5.

Malus *Indica*, fructu pentagono. *Bilimbi* dicta Ray H. Pl. 1449.7. Bilimbi Malab. Malaki Karamboli *Bram*. Bilimbinos *Lusit.*

Blymbinen Belg. H. Mal. Vol. 3. Tab. 45. 6. p. 55. Billing-bing

Malais Bont. 133. Fig. an *Belimbi arbor* Zan. 17 and 25. Flor.*Malab.* 167. 5. *id.* Fol. 42. 2. 5.

This is a *species* of S. B. 5. 207. grows 15 or 16 foot *high*, and *thick* as ones thigh: the *Fruit* is cooling and very sour, ferves for *Atchar*, sweet meat, and is put in *Carries*. S. B.

This differs from S. B. 5. 207. in having much larger *Flowers*, and its *Leaves* longer and narrower, with 10 or more pair on each stalk, whereas the other has rarely more than five.

233. Paringe Nellekai Malab.

Charamei Malabar. *Cassia fistula* folio.

S. B. 233.

C. B. 401. 2.

Pluk Tab. 269.

Fig. 2. Alm.

Bot. 45. pl. 11.

Park. 1638.

c. 108. Fig.

Lugd. 1875.

c. 115. Fig.

IB. l. 1. p. 88.

c. 20. Fig.

IB pr. 3. c. 20

Chabr. 4. Fig 3

Durant. 120.

Fig. Clus Exot.

29. c. 58.

H. Mal. v. 3 Tab

47. 8. p. 57.

Arbor exotica, fructu racemoso, *Charamais* dicta C. B. 401. 2.Arbor. *Malabarica* Fraxini fera folio, officulo fructus octangularPluk. Tab. 269. Fig. 2. *Alm. Bot.* 45. pl. 11. lin. 25. *Charamei* Park.1638. c. 108. Fig. *Acoft.* Lugd. 1875. c. 15. Fig. *Acoft.* fol. PyriIB. l. 1. p. 88. c. 20. Fig. *IB.* pr. 3. c. 20. *Chabr.* 4. Fig. 3. *Charameis*c. 20. Fig. *Cast.* Durant. 120. Fig. *Acoft.* *aclus Exot.* 292. c. 58. in *Canara, Decan.**Araznavali vulgo* *Charameis*; *Arabibus Persis & Turcis* *Ambela*.*Neli pouli* seu *Billimbi* altera minor *Anvallis Bram*, *Cherame-**l. Lusit.* *Suercnoop Belg.* H. Mal. Vol. 3. Tab. 47. 8. p. 57. RayH. Pl. 1450. 8 Fl. Mal. 61. 2. *id.* Fol. 16. 1. 3.

This grows about 12 foot *high*, and almost as *thick* as ones thigh: here are 2 *jerts*, one bears *Fruit*, and the other not, (which the

the *Hort. Malab.* also confirms) I take this for a sort of *Myroba-* Ray *H. Pl.* 1450.
lan, and is the most pleasant of all I know as yet, having a very 8 *Fl. Mal.* 61. 2.
 grateful acidity, and makes sweet Meats, *Achar*, &c. The *Por-* id. *fol.* 16. 1. 3.
tugueze here call this *Cheremelas*, the *Natives* use it very little in
Physick; the name signifies *Christians Myrobalan or Christians*
Nellecai. S. B.

234. *Tumba maraum or Carpa maraum Malab.*

Guajavae fructu, arbor Madrasp. foliis Fagi maximis Mus. Pe- S. B. 234.
tiver, 417. INDIAN EBONY. Mus. Petiver
 417.

This is the *Ebony* we use here; 'tis a very large tall Tree, about the Mountains of *Trippette*, 50 or 60 foot high, and about 3 foot thick; but those that grow nearer the Sea side are hardly one third of that bigness, containing little or no *Ebony*: the heart of the Tree only being black, which in the largest Trees seldom exceeds a foot, often less, the rest all white Sap: The Fruit is good to eat, being very sweet, like *Cbetapaulum* and *Atapaulum*, S. B. 5. 193. the Seed of which last and these are exactly alike: I therefore count them to be of kin. I can't as yet learn that the *Natives* use this in *Physick*, except here and there one, who use it as an ingredient in their *Cuddanee* (which is Decoctions for the *Pox*) which possibly they may have done in imitation of the *Portuguese*, who do the same. S. B.

235. Poon chedde Malab.

Waga sensitiva aquatica Malabarica non ramosa. S. B. 235.
 an *Mimosa Orientales non spinosa, rarioribus ramis, floribus* Pluk. *Tab.* 307.
spicatis Pluk. Tab. 307. Fig. 4. an Aeschynomene mitis. 2, vel potius Fig. 4.
Herba casta Zeylanica filiquis latis compressis minoribus Bryn. *Cent.*
Bryn. Cent. 47. Fig. Siliq. 52. 2. 3. Ladschini Bram. Totta Vaddi 47. *Fig.* 52. 2. 3.
Malais. Ray H. Pl. 981. 7. Niti Todda Vaddi Malab. Lauri Bram. Ray *H. Pl.* 981.
H. Mal. Vol. 9. Tab. 20. p. 35. 7. *H. Mal.* 4. 9.
Tab. 20. p. 135.

This is a *Species* of *Herba viva*, for if toucht it shuts its *Leaves* (tho very softly) which before were expanded, the branches do not move. It grows in *Ponds* from a light, spongy, long trailing *stalk*, which spreads much, is about a finger thick when wet, but when dry shrinks to a small matter, as may be seen by the white part of the stalk of this Plant, which serves for a *Root*: The *Natives* neither eat, nor use this in *Physick*, but they believe if the *Juice* of it be rubb'd on *Womans Breasts*, which are too big, it will make them little, and also will dry away *Milk*. S. B.

S. B. 236.

H. Mal. v. 9.

Tab. 21. p. 37.

236. Chaddai lackaree Malab.

Waga sensitiva, Madraspatana, ramosa, virgulis lignosis.

an Malam Todda vaddi Malab. H. Mal. Fol. 9. Tab. 21. p. 37. which the *description* better answers than the *Figure*.

This is another *Species* of *Herba Viva*, and grows on dry ground, the *Flower* is of a purplish colour when fresh: If you touch this Plant never so gently it will all fall down, and the *Leaves* shut together much more than the former. This is commonly eaten by the Natives as Food; it's of no use in *Physick*, but these People say that if the *Juice* of it be rubb'd on the Hands of any person, and he stroaks the Breasts of a Woman, 'twill cause her to love him; they are full of these ridiculous stories. S. B.

H. M. v. 9. p. 37.

The *Hort. Malab.* also asserts Vol. 9. p. 37. that the Natives superstitiously believe it will provoke Love, and restore lost Virginity. To this let me add another species, *viz.*

S. B. 236, 1.

Waga sensitiva Madraspatana non, vel minus *ramosa*. It differs from the last in being less branched, and its stalks long, very slender and not woody, the divarications of its Leaves are rarely 3 pair, and often but one; its *Flower* or *podds* differ not.

S. B. 227.

Alm. Bot. 5. pl.

7. Breyn. pr. 1.

v. 35. pl. 5.

Breyn. pr. 2.

p. 37. pl. 1.

P. B. pr. 331. 1.

Breyn. Cent.

61. c. 22. Fig. opt. 2.

Breyn. pr. 1. p.

35. pl. 5.

Ray H. Pl. 981.

10. El. Bot.

492. Inst. R.

Herb. 619.

Du Torore 154.

Cat. Pl. Jam.

149. pl. 2.

237. Mail Conei Malab.

Pavoninus utriusque Indiae, flore variegato.

Acacia Orientalis gloriosa, *Coluteae* foliis, rachi medio ad genicula solummodo spinis gemellis aculeata Alm. Bot. 5. pl. 7.

Colutea Indica, platycarpus flore pavonino sive Flos *Indicus* pavoninus *Monaramal* Zingalensibus Herman. not. Mfl. Breyn. pr.

61. c. 22. Fig. opt. 2. pl. 35. p. 5.

Crista pavonis *Coronilla* folio 4. sive floribus spicatis amplifimis exaureo & coccineo variegatis, filiqua Pisi Breyn. Prod. 2. pl.

37. pl. 1.

Erythroxyllum Indicum minus, spinosum, *Coluteae* foliis, filiquis angustioribus, flore ex luteo & rubro eleganter variegato P. B.

pr. 333. 1.

Frutex Pavoninus sive Crista Pavonis Breyn. Cent. 61. cap. 22. Fig. opt. Breyn. prodr. 1. p. 35. pl. 5. Ray H. Pl. 981. 10.

Poinciana fl. pulcherrimo El. Bot. 492. Inst. R. Herb. 619.

Poincyllane ou *Fleur* de S. Martyn Dutertre 154.

Sena spuria arborea spinosa, foliis alatis ramosis seu decompositis, flore ex luteo & rubro specioso Cat. Pl. Jam. 149. pl. 2.

Monarakudimbija sive Cauda Pavonis Zeylanensibus, Foula de Pavan Lusit Tsetti Mandaru Malab. Tsjettia Bram. Paauwen staarten

staarten Belg. Hort. Malab. V. 6. Tab. 1. p. 1, Flor. Malab. 91. 11. id. Fol. 23. 2. 11. St. Jago-Flower of Ligon p. 15 & 99. Flower Fence of Barbadoes. Wild Sena or Spanish Carnations of Jamaica. Cat. Pl. Jam. 140. 2.

Mr. Brown says these Flowers are consecrated to their Idols ; and the Hort. Malab. affirms, that they are generally cultivated in their Gardens and Burying-places, it being there an ever-green, and very beautiful, bearing Flowers or Pods most part of the year, especially in May and August, and about our Christmas.

238. Shevanar calunga Malab.

Lilium Zeylanicum superbum Hort. Amst. V. 1. p. 69. Fig. 35. Hort. Amst. Lil. Zeyl. superbum vulgo H. L. Bat. 689. Fig. L. Zeyl: superb. v. 1. p. 69. Fig rad. tuberosa, florem petalis coccineis-fimbriatim reflexis. H. Bosc. 35. H. L. Bat. a.n Methonica Malab. Niengala Zeyl. Mus. Zeyl. Mendoni Mal. 689. Fig. H. Bosian. H. Arty Bram. Raiz d' empofe Lufit. Croes-steen Belg. Hort. Malab. Mal. v. 7. Tab. V. 7. Tab. 57. p. 101. Fl. Mal. 175. 4. id. Fol. 44. 2. 4. Ray H. 57. p. 101. Pl. 1915. The proud Zeylon Lilly. Fl. Mal. 175. 4. id. fol. 44. 2. 4. Ray H. Pl. 1915.

When this grows near any thing that may support it rises 6 or 8 foot high : but by itself not above 3 or 4. the Leaves be low and at top alike; the Root is crooked, a finger thick, and about 4 inches long, white like Ginger, and used by the Natives as a general counter poyson, which it expels by Vomit, Dose scri. in a cup of Vinegar, rub it on a Stone till it desolves and mixes with the same: the Natives make an Oyl with this, Shevano weamboos and Odingee. of the Root, Bark, Leaves, Fruit, Flowers &c. of these 3, which they cut small, and put into a very great Earthen-pot, covered with a flat earthen pan, and lute it on; in the bottom of the great Pot they make a hole big as a Sail Needle, to which they apply a small Pan to receive the Oyl, the great Pan being buried half way in the ground, they make a Fire round it with Cow Dung, till all the Oyl is distilled into the Pan below. This cures, they say, all sorts of venomous bites and Vonda gудdee: but against that of the Cobree de Capello 'twill do no good, as I have tryed. S. B.

The Hort. Malab. takes notice that the Natives ascribe very great Sympathetical, Magical and other Metaphysical Operations, H. Mal. v. 7. to that part of this Root which grows towards the North. Hort. Tab. 57. p. Malab. V. 8. p. 108.

239. Peape pingkai Malab.

Luffa Malabarica fructu reticulato sem. nigro. Pluk. Tab. Cucumis Indicus striatus operculo donatus, corticose putamine tectus 172. Fig. 1.

Alm. Bot. 113. *tectus Pluk. Tab. 172. Fig. 1. Alm. Bot. 123. pl. 12. Cucumis fyl-*
pl. 12. vestris Malabaricus fructu striato amoro Comel. in H. Mal. V. 8.

H. Mal. v. 8.
 Tab. 7. p. 7. 13P. 14.

Pepo *Zeylanicus reticulatus & fulcatus femine nigro. Parad.*
Bat. app. 11. pl. 2. an Pepo Indicus reticulatus feminibus nigris
minor H. L. Bat. 482. pl. 4?

Picinna Malab. Gonsaly Bram Patolas Lust. Traken Belg. H.
Malab. V. 8. Tab. 7. p. 13. Fl. Malab. 97. 2. id. Fol. 25. 1. 2.

H. Mal. v. 8.
 Tab. 7. p. 13.

The *Root* is 2 fingers *thick* a yard *long*; sometimes more, white both within and without, the *Root* and *Fruit* are very bitter and Cathartick; the *Juice* of the *Fruit* I have seen put up the *Nose* of an *Apoplectick Person*, which caused him to void much *Slime* and *Filth* by *Mouth* and *Nose*, and in 2 days recovered him, contrary to expectation. S. B.

This *Plant* is admirably delineated amongst *Dr. Herman's Designs*, mentioned in the end of his *Paradisus Batavus*, Printed A. D. 1698. in 4to; where the *Flower*, *Seed*, and a view of the reticulated pulp is there elegantly shewn, which neither the *Hort. Malab*, or *Dr. Plukenet's Figures* has express'd.

My worthy Friend Mr. *Edward Bulkley* some time since procured me a decorticated *Fruit* of this *Gourd* from *Persia* composed of curious reticulated *Figures*, as you may see it *Figured* in the *xith Table* of my *Gazophylacium Naturæ*.

S. B. 142.

240. *Narra Villan calunga. Malab.*

Liliasphodelus Malabaricus angustifolius.

H. Mal. v. xi.
 Tab. 38. p. 75.

Belutta Pola Taly Malab. H. Malab. V. xi. Tab. 38. p. 75.

This has a bulbous *Root* big as a very large *Turnip*, the inside of the *Flower* is *White*, the outside *Red*, has no smell: The *Juice* of the *Root*, or a *Decoction* of it, helps sharpness of *Urine* and *Gonorrhœa*. S. B.

Alm. Bot. 219.
 pl. xi.

Altho *Dr. Plukenet* in his *Almagest. Botan. p. 219. pl. xi.* hath quoted the *Hortus Malab.* for this *Plant*, yet since that in his *Mantissa* he hath made and altogether new.

To this let me add another which Mr. *Brown* sent me, gathered at *Arcaut* about *Fort St. George*, viz.

S. B. 240 1.

Liliasphodelus Malabaricus latifolius.

H. Lugd. Bat.
 683. Fig.

Lilium Zeylanicum umbelliferum & bulbiferum. Tolabo Zeyla-

nemibus Mus. Zeyl. H. L. Bat. 683. Fig. Siovanna Pola Tali Ma-
lab. Gola Kondo Bram. H. Mal. V. xi. Tab. 39. p. 77.

This *Bulb* is larger, and hath much broader *Leaves* than the last.

241. Coode tourae Malab.

Phaseolus Emuyacus foliis *Cajan* minoribus, fliquis *Orobi* ferrugineis.

an *Phaseolus* minor *Bisnagaricus*, foliis argenteo colore villosis, fliquis torosis brevibus spadicæa hirsutæ pubescentibus, fructu parvo Scaraboide nigro ult. an *Phaseolus* Zeylanicus *Salviæ* foliis subrotundis mollibus & hirsutis P. B. pr. 364. pl. 5. an *Orobis* *Phaseolodes* Zeylanicus folijs *Salviæ* rotundis incanis subhirsutis P. B. pr. 359. pl. ult.

A Decoction of the Root (which is a Finger thick and white) cures Fevers. S. B.

That Curious Botanist Mr James Cuningbame first brought me this from Emuy.

242. Cantau verre or Caleau verre Malab. Anil Madraspatana trifoliata, fliquis carinatis hirtis. H. Un. 35. Aët. Phil. No 244. p. 330. pl. 35.

The Decoction of the whole Plant cures Rheumatisms and Pains. This is wild Nil, but makes no Indigo. S. B.

243. Tipplelee Malab.

Piper longum Officinarum.

Piper longum I. B. l. 15. p. 186. Fig. I. B. pr. 39. pl. 22. Chabr. 125. Fig. 6. Ger. 1355. Fig. Ger. emac. 1538. Fig. Park. 1604. Fig. Clus. Exot. 20. Fig. & 183. Fig. Fragos. 32. Garc. 94. an *Piper* longum Hern. 126. Fig? Tlatlancauye & Ecapatli Mexic. Buyobuyo & Sabiam Phillipensibus.

Piper longum Orientale CB. 412. 3. an *Piper longum* Javanense Incolis *Chiabe* dictum Linschot. Ind. Or. p. 4. Fig. 30.

Pepe lungo Durant. 343. Fig.

Cattu Tirpali Malab. Bipali Bram. Pimenta Lusit. Lange Per Belg. H. Mal. Vol. 7. Tab. 14. p. 27. Fl. Mal. 215. 2. id. Fol. 54. 2. 1.

Darfulful Arab. Pimpilim Bengal. Pis. Mant. Arom. 185. Fig.

Poivre long des Indes Pomet. l. 7. p. 191. Fig. c. 6. p. 196. an Poivre long de l' Amcrique Pomet. l. 7. 191. Fig. c. 7. p. 196.

Dalé 495. 1. Ray H. Pl. 3143. 5.

This is the true or Best Long Pepper : Here is in the Bazar another sort, bigger, but not so good, call'd by the Malabars Auna Tipplelee. The Natives use the small sort in many Distempers, as Fevers, want of Appetite, for Lying in Women, &c. but the other they do nothing with but give it as Physick to their Elephants. S. B.

After *Dr Plukenet* has made 2 different *Long Peppers* of this one, viz. in his *Phytographia*, Tab. 104. Fig. 4. and in his *Mantissa*, p. 151. yet in the next line he says this *Tipplelee* of the *Malabars* is the *Piper nigrum præstantissimum*; which contradiction I know not how to reconcile.

S. B. 6. 244.

244. *Aumana maraum Malab.*

Palma Madraspatana, Oleandri angustissimi folio.

This is a large and strange species, as I believe, of the *Palm-tree*, the Body in all things resembles the *Coco-nut Tree* (Hort. Malcb. Vol. 1. Tab. 1. p. 1. Ray H. Pl. 1356. 4.) but the *Fruit Flower* and *Leaf* are different. I can learn no *Physical Use* it has as yet. S. B.

H. Mal. v. 1.

Tab. 1. p. 1.

Ray H. Pl.

1356. 4.

S. B. 6. 245.

Pluk. Tab.

120. Fig. 1.

245. *Varail chuddee Malab.*

Chamæ-crista Pavonis Madraspatana minima, Nabatbeæ foliis.

This is another species of *Herba viva*, the Branches budge not, only the Leaves shut when toucht. The *Natives* grind it with *Breast Milk*, and anoint Infants who have the *Carpum* or *Scab* with it. S. B.

Notwithstanding *Dr Plukenet* in his *Phytograph.* Tab. 120. Fig. 1. had given a good Cut of this from a Specimen I gave him, yet in his *Mantissa*, p. 131. he has been pleas'd to give it again as altogether New, with a Title very different from it.

246. *Conca maraum Malab. CASSIA FISTULA.*

246. *Cassia Fistula Officinarum,*

Arbor Cassiam solitivam ferens Bont. 101. Fig. c. 10.

Cassie des Isles Pomet. l. 7. 217. Fig. c. 30: 219.

Cassia Vestling. in Alp. p. 3. c. 2.

Cassia Egyptia five *purgans* Cam. H. Med. 36. pl. 3.

Cassia Fistula Ger. 1242. Fig. opt. Ger. emac. 1431. Fig. Fra-

gof. 43. c. 14. *Durant.* 97. Fig. Alp. Ægypt. Ven. p. 1. c. 2. id.

Pat. 3. c. 2. *Hern.* 87. c. 55.

Cassia fistula Alexandrina C. B. 403. 1.

Cassia fistula les *Antiles* Rochfort. Hist. 77.

Cassia fistula Indica Zanon. 25.

Cassia fistula Occidentalis *Nieremberg.* Hist. Nat. 327. c. 88.

Cassia fistula seu Nigra Alexandrina Gefn. H. Germ. 251.

Cassia fistula vulgaris, fl. luteo *Breyn.* pr. 2. p. 26. pl. 5.

Cassia fistula & *Cassia siliquosa purgatrix* *Lob.* in *Pharm.* Rond.

40.

Cassia nigra *Dod.* *Pemp.* 787. c. 30. Fig.

Cassia purgatrix IB. l. 12. p. 416. c. 2. Fig. *Chabr.* 89. Fig. 3.

Cassia

S. B. 6. 246.

Bonc. 101. Fig. cap. 10.

Pomet. l. 7.

217. Fig. c. 30.

219. *Vestl.* 3.

c. 2. *Cam. H.*

Med. 36. pl. 3.

Ger. 1242.

fig. opt. *Ger. em.*

1431. fig.

Fragos 43. c.

14. *Durant.*

97. fig. Alp.

Ægypt. Pat. 3.

c. 2. *Hern.* 87.

c. 55 *CB.* 403.

1. *Zan.* 25.

Nieremb.

327. c. 88.

Breyn. pr. 2. p.

26. pl. 5 *Lob.*

Cassia solutiva IB. pr. 32. pl. 4. *Clus. Exot.* 271. c. 22. & 332. *in Pharm.*
c. 44. *Garc.* 122. c. 29. *Rond.* 40.

Cassia solutiva. vulgaris Park. 234. c. 33. Fig. 1. *Dod. Pemp.*
Siliqua aut *Cassia purgatrix*, *Arabum Carrobiis* similis *Adv.* 787. c. 30. fig.
414. *IB. pr. 32. pl. 4* *Clus Exot.*

Siliqua Indica, i. e. *Cassia fistula* quam veteras *Fabam Indicam* 271. c. 22. &
vocat *Cord.* 194. c. 24. 332. c. 44.
Garc. 122. c. 29

Chaiarz ambar *Ægypt*, Conna *Malab.* Bajo *Bram.* Hort. *Malab.* Park. 234. c.
V. 1. Tab. 22. p. 37. *Quauhayovatli Mexican.* Hern. 87. c. 55. 33. fig. 1. *Adv.*

Dale 505. 5. *Ray H. Pl.* 1746. c. 8. *Cat. Pl. Jam.* 145. pl. 1. 414. *Cord.*

This *Cassia Fistula* is a very great Tree, the *Natives* reckon 4 194. c. 24.
sorts of it, 1. This. 2. *Ckenunne*, or *Chen conea*. 3. *Mail* H. Mal. v. 1.
Conea. 4. *Mange Conea*. But this only bears the purging *Caf-* Tab. 22. p. 37.

sia fistula; the *Bark* of the *Root* is likewise purging: The *Na-* Dale 505. 5.
tives Cure *Anasarca's* by applying boy'd *Leaves* all over the *Ray H. Pl.*

Belly. S. B. 1746. c. 8.
145. pl. 1.
Cat. Pl. Jam.

247. *Melleaarreth Malab.*

Is a great Tree grown on *Tripitte Mountains*, the *Natives* bath
in a *Decoction* of the *Wood*, *Bark* and *Leaves*, for *Rbeumatick*
pains. S. B.

The *Fruit* and *Leaf* seem to belong to different *Plants*, the
first very much resembles the *Samstravadi* S. B. 4. 147. and the *Leaf*
is like that of a *Melon*. S. B. 4. 147.

Here follows some ANIMALS, &c. Observed in the
Philippine Isles, by that Reverend and Learned Father
GEORGE JOSEPH CAMEL, from whom I
lately received them.

1 *Cato-Simius volans* Cameli. GAZOPHYL. nost NATU- S. B. 6 1
RÆ Tab. 9. Fig. 8. GAZ NAT,
Tab. 9. Fig 8

Calago & Cagvang Byjaiani. Gigua Pampangi & Tagali.

This strange and wonderful *Creature* is about the bigness of a
Cat, its body like an *Ape*, but slenderer; from *Head* to *Tail* are
3 spans, between the *Arms* extended 2, and the *Thighs* 1 and a
half. It's 3 spans from the fore to the hinder *Toes*, and as many
between the 2 fore *Legs*, but between the hinder ones it's but
2 spans. Its *Belly* an hand breadth, and the *Skin* from it a span.
They report, that in the *Province Pampanga* they are as large as
a *Chinese Umbrell*, or 6 spans broad.

Eeeeeee 2

His

His *Hair* is brownish, on the back of a *Moufe-dun*, mixt with very curious white, strip'd down, like those *Skins* which the *Ger-mans* call *Fleck* (which perhaps is our *Fitchow* or *Pole Cat*) these are longer on the *Body*, and shorter on its membranous skin. This *Skin* is extended round its *Body* from *Head* to *Tail* like a *Bat*, with which being expanded, they fly slowly from the top of one *Tree* to the middle of the next, and then advance up by flying leaps,

It hath a *Monkey's Face*, flat round bald *Ears*, each *Foot* hath 5 crooked flat *Lyon-like* very sharp *Claws*: on the *Belly* of the *Males* are 2 little bags, to which the young ones cling and suck: We knew not what is their *Food*, but its probably *Fruit*. because their usual abode is on *Trees*.

See its *Figure*, as *Father Camel* sent it me, in the 9th *Table* of my *Gazophylacium Naturæ*.

S. B. 6. 2. 3. *Papilio Philippensis* Maximus, lituris nigris mixtus. This is somewhat bigger than No. 6. following, but the *Body* much the same, its higher and lower *Wings* on both sides have a yellowish cast next the *Body*, the rest white, almost equally mixt with various black spots, *Islets*, streaks, &c.

S. B. 6. 3. 5. *Papilio Philippensis* permaximus nigrescens, campis aureis inferioribus alis pernotatis.

The upper *Wings* extended are more than 6 inches between the *Tips*, these are blackish next the *Body*, the rest feathered with grey: In the middle of each lower *Wing* are 7 or 8 golden shining *Fields* inclosed with black *Veins*; these are encompassed with a large black *Selvedge* $\frac{1}{2}$ inch broad: Its *Body* black, *Belly* yellow, and *Rump* silvery.

S. B. 6. 4. 4. *Papilio Philippensis* major nigrescens, campis aureis inferioribus alis pernotatis.

This is much less than the last, otherwise very like.

S. B. 6. 5. 5. *Papilio Luzonicus Calendulaceus* pallidus. This differs from our *Papilio Javanicus Calendulaceus* *Musei Petiver*. 518. in having the upper *Wings* on both sides whitish, where that is yellow; but the lower wings are the same, and particularly the *Scarlet spot* under each *Shoulder*; these are somewhat more than 3 inches below the *Tips*.

S. B. 6. 6. 6. *Papilio Luzonicus* maximus nigrescens, maculis coccineis subtus perbelle notatus. GAZOPHYL. nost. NATURÆ Tab. xi. Fig. 8.

The Body of this elegant and large *Butterfly* is black, as are its upper Wings on both sides, except a long Scarlet Spot on its Shoulders beneath, with another on its lower Wings; on the edges of these it's curiously beset with several others very beautiful to behold, imitating the finest *Chermesine*.

7. *Papilio Madraspatanus nigrescens*, maculis sanguineis pallidisque interspersis *S. B. 3. 27. Act. Phil. No. 271. p. 862. 27.* *S. B. 3. 27.*

8. *Papilio Philippensis nigrescens non caudatus*, maculis albis semicirculari. *S. B. 6. 8.*

This only differs from *S. B. 3. 30. Act Phil. No. 271. p. 862. 30.* in being without a Tail.

9. *Papilio Philippensis major*, obscure fuscus, albis striis infusisque mixtis. *S. B. 6. 9.*

This and the next may be *Male* and *Female*

10. *Papilio Orientalis* e fusco & albescente, striis maculisque mixtus *S. B. 3. 32. Act. Phil. No. 271. p. 682. 32.* *S. B. 6. 10.*

From the last this differs, in having its *Spots* and *Islets* white, it is also void of a particular black spot on a Vein near the middle of each lower Wing, which is very obvious in the other.

11. *Papilio Philippensis major*, pallide cærulescens, margine venisque nigricantibus. *S. B. 6. 11.*

This resembles the 2 last in the divisions of its colours and magnitude, but this has few or no spots on the edges, and is of a *bleak blue*, where the other is *white*.

12. *Papilio Orientalis* fuscus, umbra cærulescente albo basis circumscripta *Mus. Petiver. 720. The Indian Blue Glow.* *S. B. 6. 12. Mus. Pet. 720.*

This is mostly dark brown or blackish above, except in the middle of each Wing, where there is a large white field, which by reflection is encompassed with a glorious shining blue cast, which gains or loses according to the position of the light. Underneath it shines not, nor is its ground so dark as above, but adorn'd with *White Feilds, Specks, Wars, Moons, &c.*

13. *Papilio Philippensis*, oculatus ferrugineus. *S. B. 6. 13.*

This is a middling *Butterfly*, of a brown rusty colour, has 6 Eyes on each lower Wing, and laced on the edges.

14. *Papilio Philippensis minor* albus, macula & apicibus nigris. *S. B. 6. 14.*

This is like one I have observed here in *England*, but less.

15. *Papilio Philippensis minor* luteus, marginibus superne nigricantibus. *S. B. 6. 15.*

I have 3 or 4 varieties like this from *Africa* and *America*; but this differs from them all, in having its dark Selvege all round the Fly, which in its upper Wing is jagged.

S. B. 6. 16. 16. *Papiliunculus Philippensis* e fulco cinereus, subtus pulchre notatus, humeris aurcis.

This small pretty *Insect* is $\frac{1}{4}$ an inch *broad*, and near $1\frac{1}{2}$ long, above of a dark hair colour, with pale in the middle, its ground underneath is half brown and pale, the Shoulders are elegantly striped with greenish shining Gold, and in its lower Wings are 7 oval *black* spots, set in a *white* Field.

S. B. 6. 17. 17. *Papiliunculus Philippensis* e fulco cinereus, oculis tergeminis, alis inferioribus.

This is somewhat less than the last, *brown* above and *cinereous* underneath, near the angle of each upper Wing is one large *black eye* in a *pale* circle, and in the lower 3 pair, of different magnitudes, the largest in the middle.

S. B. 6. 18. 18. *Papiliunculus Philippensis* cæruleus major, subtus marmoreatus.

This chiefly differs from the next in being larger (*viz.* $1\frac{1}{4}$ inch long) and the spots on the lower Wings more obvious, particularly one at each Tail (which terminates in 1 Hair) as also 2 black speck near the Shoulders, which are not set in the next.

S. B. 6. 19. 19. *Papiliunculus Philippensis* cæruleus minor, subtus, marmoreatus.

S. B. 6. 20. 20. *Papiliunculus Philippensis* cæruleus, minor, subtus maculatus.

Muf. Petiv.
318.

This comes next to our *Blue Argus* Muf- *Petiver.* 318. but is less