ABSTRACT. The construction and distribution of books containing large copperplate images was of great importance to practitioners of natural history during the eighteenth century. This article examines the case of the botanist and president of the Royal Society Sir Joseph Banks (1743–1820), who attempted to publish a series of images based on the botanical illustrations produced by Georg Forster (1754–94) on Cook’s second voyage of exploration (1772–5) during the 1790s. The analysis reveals how the French Revolution influenced approaches to constructing and distributing works of natural history in Britain, moving beyond commercial studies of book production to show how Banks’s political agenda shaped the taxonomic content and distribution of this publication. Matters were complicated by Forster’s association with radical politics and the revolutionary ideologies attached to materials collected in the Pacific by the 1790s. Banks’s response to the Revolution influenced the distribution of this great work, showing how British loyalist agendas interacted with scientific practice and shaped the diffusion of natural knowledge in the revolutionary age.

In the spring of 1790, the naturalist Georg Forster, accompanied by the young Alexander von Humboldt, visited the celebrated range of natural history...
collections in London. A main calling point was the library of the president of the Royal Society, Sir Joseph Banks, at 32 Soho Square, a meeting place for natural historians from across Europe. Although Humboldt held good relations with Banks, Forster was less complimentary. In his published report of this journey, a work designed to draw attention to the political changes taking place across Europe, Forster was scathing about Banks’s natural history collection and British science. Forster commented that ‘Everything is in bad shape except for botany’, describing how there is ‘absolutely no understanding [Kenntniß]’ of natural history; implying the superficiality of Banks’s expertise. This correlated with Forster’s impression of political stagnation in Britain, for he believed that political reform went hand in hand with advancements in natural history.

While there is a large literature on book production during the French Revolution, this concentrates on France and the effect of the Revolution on commercial book and newspaper production in Paris. Many of these more general studies of the book trade have overlooked the field of natural history, a major part of which revolved around the production and distribution of expensive volumes compiled from text and copperplate illustrations designed to provide a systematic classification for species. These systems took on new meanings during the Revolution. The 1780s had witnessed the birth of natural systems of classification, developed by the French botanists Antoine de Jussieu and Michel Adanson, which classified plants according to their general physiology and strived to map a continuous natural order between species, ideas which emanated from Georges-Louis Leclerc, comte de Buffon. This broke down the artificial hierarchic divisions of kingdoms, classes, orders, and genera that had been imposed on nature by the system developed by Carl Linnaeus from the 1730s which had dominated British natural history since the 1760s. By the 1790s, natural systems were often

1 Georg Forster, Ansichten vom Niederrhein, von Brabant, Flandern, Holland, England und Frankreich im April, Mai und Juni 1790 (3 vols., Berlin, 1791–4), iii, pp. 50–2.
2 John Gascoigne, Joseph Banks and the English Enlightenment: useful knowledge and polite culture (Cambridge, 1994), p. 70.
3 Jürgen Goldstein, Georg Forster: voyager, naturalist, revolutionary (Chicago, IL, 2019), p. 125.
4 Forster, Ansichten vom Niederrhein, iii, pp. 50–2. For kenntniß or kenner, see Denise Phillips, Acolytes of nature: defining natural science in Germany, 1770–1850 (Chicago, IL, 2012), p. 73.
5 Robert Darnton, The business of Enlightenment: a publishing history of the Encyclopédie, 1775–1800 (Cambridge, MA, 1979), pp. 460–519; Robert Darnton and Daniel Roche, eds., Revolution in print: the press in France, 1775–1800 (Berkeley, CA, 1989); Carla Hesse, Publishing and cultural politics in revolutionary Paris, 1789–1810 (Berkeley, CA, 1991).
6 Most studies examine periodicals and the Encyclopédie. Richard Yeo, Encyclopaedic visions: scientific dictionaries and Enlightenment culture (Cambridge, 2001); Stuart Andrews, The British periodical press and the French Revolution (Basingstoke, 2000); Alex Csiszar, The scientific journal: authorship and politics of knowledge in the nineteenth century (Chicago, IL, 2018).
7 Peter F. Stevens, The development of biological systematics: Antoine-Laurent de Jussieu, nature, and the natural system (New York, NY, 1994), pp. 24–7.
8 Franz Stauffe, Linnaeus and the Linnaeans: the spreading of their ideas in systematic botany, 1735–1789 (Utrecht, 1971), pp. 199–240.
associated with the erosion of aristocratic social hierarchies, championing the aims of French Jacobins. This connection to revolutionary politics impacted the practice of natural history in Britain, where, unlike many European absolutisms or Revolutionary France, scientific practice remained decentralized and in the hands of a few self-funded practitioners. These included John Stuart, the earl of Bute; Sir William Hamilton; Edward Smith-Stanley, the earl of Derby; and Sir Joseph Banks, who used their powerful positions to patronize and practise natural history to extend their personal agendas. In the light of political connotations attached to different systems of classification, it is also of crucial interest to determine how partisan views influenced the construction, production, and distribution of a natural history book during the revolutionary age.

Since Linnaeus’s death in the late 1770s, there had been an upsurge in natural history publications reflecting the multitude of new species entering Europe. Descriptions and specimens of new species were obtained from more frequent state-sponsored voyages of discovery, the most notable being those from France, Britain, and Russia commanded by Louis Antoine de Bougainville, James Cook, and Adam Johann von Krusenstern. Cook’s three Pacific voyages were the main source of this material entering Britain. Banks had been involved with these expeditions from his initial appointment as a self-funded naturalist on Cook’s first voyage in 1768 and maintained a particular interest in the second and third voyages, becoming a kind of state-approved, although autonomous, custodian and adviser for the numerous natural history materials gathered during these expeditions. From the mid-1770s, Banks mobilized his great wealth, derived from country estates that brought him an annual income of £16,000 by 1820, to build a vast natural history collection at his London mansion in Soho Square. Banks’s election to the presidency of the Royal Society in 1778 and baronetcy in 1783 swiftly gained him a sustained level of political power and influence.

9 Emma Spary, Utopia’s garden: French natural history from old regime to Revolution (Chicago, IL, 2000), p. 4.
10 Roy Porter, ‘Gentlemen and geology: the emergence of a scientific career, 1660–1920’, Historical Journal, 21 (1978), pp. 809–36; Roy Porter, “The Enlightenment in England”, in Roy Porter and Mikuláš Teich, eds., The Enlightenment in national context (Cambridge, 1981), pp. 1–18; David P. Miller, “‘My favorite studdys’: Lord Bute as naturalist”, in Karl W. Schweizer, ed., Lord Bute: essays in re-interpretation (Leicester, 1988), pp. 211–39.
11 Staffan Müller-Wille, ‘Names and numbers: “data” in classical natural history’, Osiris, 32 (2017), pp. 109–28, 115–16.
12 Harry Liebersohn, The travellers’ world: Europe to the Pacific (Cambridge, MA, 2009), pp. 77–138.
13 John Gascoigne, Science in the service of empire: Joseph Banks, the British state and the uses of science in the age of revolutions (Cambridge, 1998), p. 189.
14 Julian Hoppit, ‘Sir Joseph Banks’s provincial turn’, Historical Journal, 61 (2018), pp. 403–29; Edwin D. Rose, ‘From the South Seas to Soho Square: Joseph Banks’s library, collection and kingdom of natural history’, Notes and Records of the Royal Society, 73 (2019), pp. 499–526.
15 Richard Drayton, Nature’s government: science, imperial Britain, and the ‘improvement’ of the world (New Haven, CT, 2000), p. 105.
While Banks was climbing the social ladder, the specimens and information collected during Pacific voyages stimulated ideas which threatened to undermine the fabric of European society. Amongst these was the perceived beauty of the South Seas islands, especially Tahiti, the charm of its peoples, and descriptions of the slight economic and social differences between the rulers and the ruled in Tahitian society. In Britain, this bore a strong relation to the criticism of Anglican ethics by figures such as Erasmus Darwin who related the use of sexual organs to classify plants according to the Linnaean system to idealized views of Tahitians as naturalized beings who lived in a society free from the constraints of Christian doctrine. Darwin’s use of the botany of the South Seas to criticize established social and taxonomic hierarchies shows how the vision of an egalitarian society challenged the authority of the Linnaean system and the aristocratic system of government. These revolutionary connotations were almost certainly connected to Banks’s Pacific collection and influenced his approach to its publication.

*Icones plantarum* (c. 1800) was commissioned by Banks and made up from 129 expensive copperplate images of plants engraved in the 1790s and based on the botanical illustrations Georg Forster produced during Cook’s second voyage to the Pacific between 1772 and 1775 that Banks had purchased for £420. These surviving copperplates, a new discovery in terms of the vast Banks collections, were privately funded by Banks and engraved by Daniel Mackenzie (c. 1770–1800) in the room under the library at 32 Soho Square. Forster’s illustrations were embroiled in revolutionary politics from the early 1790s. Forster’s support for the Revolution, the threats this posed to established European social structures, and the Linnaean system intertwined the Pacific origins of these images with the general breakdown of society. As a result, Banks employed several important taxonomic strategies during the production of *Icones plantarum* and managed its distribution, enforcing a certain level of censorship over materials obtained from the South Seas. Although the effects of the Revolution on the movement of printed scientific material across European borders has received attention, *Icones plantarum* shows how it shaped the

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16 Bernard Smith, *European vision and the South Pacific* (New Haven, CT, 1985), p. 148; Dan Edelstein, *The terror of natural right: republicanism, the cult of nature & the French Revolution* (Chicago, IL, 2009), pp. 95–6; Andy Martin, ‘The Enlightenment in paradise: Bougainville, Tahiti, and the duty of desire’, *Eighteenth-Century Studies*, 41 (2008), pp. 203–16.

17 Janet Browne, ‘Botany in the boudoir and garden: the Banksian context’, in David Miller and Peter Hans Reill, eds., *Visions of empire: voyages, botany, and representations of nature* (Cambridge, 1996), p. 161.

18 Theresa M. Kelley, *Clandestine marriage: botany, and romantic culture* (Baltimore, MD, 2012), pp. 78–88.

19 British Museum [MS Inventory of the Library of Sir Joseph Banks’s Books as Received by the British Museum] (2 v., 1827), British Library, London, 460.g.1; Jonas Dryander, *Catalogus Bibliothecæ Historico-Naturalis Josephi Banks* (5 vols., London, 1796–1800), v, p. 522.

20 Jonathan R. Topham, ‘Anthologising the book of nature: the origins of the scientific journal and circulation of knowledge in late Georgian Britain’, in B. Lightman, G. McOuat,
decisions behind the production, interpretation, and distribution of a natural history book. By examining the case of *Icones plantarum*, this article reveals how independent British gentlemen-naturalists, such as Banks, intertwined their personal agendas with the production and distribution of an expensive copperplate publication, integrating scientific practice with political loyalism and the workings of a counter-revolutionary state.  

With this in mind, this article surveys Forster’s and Banks’s divergent views on the French Revolution during the early 1790s and how this affected their standing in philosophical circles across Europe. It then moves onto Banks’s management of the processes behind the production of the 129 copperplate engravings after Forster’s death in 1794. The final section examines the problems behind publishing and distributing a work on the flora of the South Seas and how the Revolution shaped Banks’s definition of intellectual property and means for distributing knowledge.

I

The time Georg Forster spent in the Pacific and his observations of the relative equality between the three main social classes of Tahitian society set the seeds for his views on general social reform in Europe and later revolutionary writings. Forster cautiously admired the level of equality in Tahitian society and believed this was essential for inspiring general harmony and a carefree, utopian lifestyle. After their return to Britain, Georg and his father, Johann Reinhold Forster, found it difficult to extract the £4,000 they deemed due to them from the Admiralty for their participation in the voyage. This resulted in Georg Forster’s publication of *A letter to the right honourable earl of Sandwich* (1778), a bitter complaint against their treatment by the Admiralty. This public accusation inspired criticism of the Forsters. Sandwich exclaimed in a letter to Daines Barrington that ‘Soon after I became acquainted with Dr. Forster I found he was a person who could not keep a friend for any length of time.’ Johann Reinhold Forster’s attitude was confirmed by the

and L. Stewart, eds., *The circulation of knowledge between Britain, India and China* (Leiden, 2013), pp. 119–52; Jonathan R. Topham, ‘Science, print, and crossing borders: importing French science books into Britain, 1789–1815’, in David Livingstone and Charles Withers, eds., *Geographies of nineteenth-century science* (Chicago, IL, 2011), pp. 311–44; Iain P. Watts, ‘Philosophical intelligence: letters, print, and experiment during Napoleon’s continental blockade’, *Isis*, 106 (2015), pp. 749–70; Tim Fulford, Debbie Lee, and Peter J. Kitson, *Literature, science and exploration in the romantic era: bodies of knowledge* (Cambridge, 2004), p. 38.

21 Emma Vincent Macleod, ‘British attitudes to the French Revolution’, *Historical Journal*, 50 (2007), pp. 689–709.
22 Goldstein, *Georg Forster*, p. 74.
23 Smith, *European vision*, p. 85.
24 George Forster, *A letter to the right honourable earl of Sandwich* (London, 1778).
25 Thomas and David Pennant Manuscripts, Miscellaneous Pamphlets, Aberystwyth, National Library of Wales, NLWMS2597C.
Warrington naturalist Anna Blackburne, who commented in a letter to the naturalist and traveller Thomas Pennant that ‘I am very sure if Doct. Forster has done any thing uncivil towards you he is highly to blame.’ The Forsters also clashed with William Wales, the astronomer on the Resolution, over the amount due to them from the Admiralty which was far more than that received by the other scientists. Wales withheld vital geographical information from Georg Forster when he was preparing *A voyage round the world* (1777) and accused him of plagiarizing the research of others.

These conflicts culminated in the publication of a cartoon depicting Johann Reinhold Forster going through the public humiliation of parading on a donkey followed by his family, a ridicule traditionally reserved for husbands dominated by their wives (Figure 1). The original illustration has been attributed to ‘Whales’, probably William Wales, in addition to being printed by ‘Doctor Faustus’ referring to legends based on the fifteenth-century scholar Johann Faustus, who was associated with the plagiarism and theft of the original invention of the printing press. This suggests that Forster had surrendered his moral integrity to obtain power and wealth. In 1778, Georg Forster returned to the German States and by 1790 was studying the relationship between plants and society with Alexander von Humboldt. A result of consistent problems with securing payments from hierarchic European courts, Georg Forster began to see the egalitarian society he had experienced on Tahiti as a model.

A decade after he left England, Georg Forster accepted the position of director of the library of the elector of Mainz in April 1788. Forster openly supported the French Revolution and became immersed in revolutionary politics after the principality of Mainz was occupied by the French army in 1792. He described this event as ‘when the French began to free the world from its tyrants’ in a speech before the Mainz Jacobin club on 15 November 1792. In March 1793, Forster was sent to Paris to lay a request to unify Mainz and France before the French National Assembly. Forster’s activities were viewed as little more than high treason by many European philosophers. Among

26 Blackburne to Pennant, 11 Jan. 1778, Warwick, Warwickshire Records Office, CR2017/TP177/1.
27 Nicholas Thomas, ‘Johann Reinhold Forster and his observations’, in Johann Reinhold Forster, *Observations made during a voyage round the world*, ed. Nicholas Thomas, Harriet Guest, and Michael Dettelbach (Honolulu, HI, 1996), pp. xv–xxii, xvii.
28 Georg Forster, *A voyage round the world*, ed. Nicholas Thomas, Oliver Berghof, and Jennifer Newell (2 vols., Honolulu, HI, 2000), i, pp. xxxvi–xliii.
29 Adrian Johns, *The nature of the book: print and knowledge in the making* (Chicago, IL, 1998), pp. 360–1.
30 Patrick Anthony, ‘Mining in the working world of Alexander von Humboldt’s plant geography and vertical cartography’, *Isis*, 109 (2018), pp. 28–55, at p. 34.
31 Goldstein, *Georg Forster*, p. 74.
32 Gordon A. Craig, ‘Engagement and neutrality in Germany: the case of Georg Forster, 1754–1794’, *Journal of Modern History*, 41 (1969), pp. 1–16, at p. 2.
33 Thomas P. Saine, *Georg Forster* (New York, NY, 1972), pp. 135–6.
these were Georg Christoph Lichtenberg, with whom Forster had edited the *Göttingishes Magazin*, and the Prussian statesman Wilhelm von Humboldt. Writing in December 1795, Humboldt exclaimed that ‘I can’t forgive Forster for having at this moment and so openly, gone over to the French party…It strikes me as immoral and ignoble to the highest degree.’ The poet, philosopher, and physician Friederich Schiller wrote that ‘Forster’s conduct will certainly be criticized by everyone, and I can see in advance that he will derive shame and regret out of this business.’ Forster differed in his beliefs from many of his contemporaries. He maintained that the Revolution was an unavoidable natural cycle and force of nature designed to erode the gulfs between European hierarchies and inspire a state of social and economic harmony similar to that in Tahiti.

34 Schiller to Georg Körner, Dec. 1792, qu. Craig, ‘Engagement and neutrality in Germany’, p. 5.
35 Goldstein, *Georg Forster*, p. 12.
In mid-1793, the counter-revolutionary powers reoccupied Mainz, leaving Forster in a state of exile in Paris. Forster came close to being guillotined after Adam Lux, a fellow member of the delegation responsible for uniting Mainz with the French Republic, was executed for circulating a pamphlet in support of Charlotte Corday, the Girondin assassin of Jean Paul Marat. In spite of this, Forster maintained his revolutionary beliefs, commenting that the execution of Louis XVI was part of a natural progression, a position that earned him widespread criticism from philosophers. However, in much of Europe (with the exception of France) natural history and the systems of ordering and classification it entailed had become integral to the counter-revolution. Figures such as Banks saw Forster’s ideas as direct threats to their own positions in society, heralding the collapse of governmental systems and the order of nature itself. Shortly before his death, Forster witnessed the foundation of a national system of botanical gardens and museums across France, proving that the Revolution was responsible for distributing natural-historical and agricultural knowledge to the masses and improving society. A result of the rejection of Forster by the majority of European intellectuals, he was distanced from correspondents in Britain and Germany. In a letter sent to his wife, Therese, on 21 August 1793, Forster exclaimed that:

I have no home, no fatherland, no kinsfolk anymore; everyone who was otherwise attached to me has gone on to form other connections...Had I been willing to act contrary to my convictions and feelings, I might now be a member of the Academy at Berlin, with a handsome salary.

In a similar manner to Forster, Banks developed his views on social freedoms and the Revolution when he arrived in Tahiti in 1769. However, Banks left with a very different interpretation to that of Forster who, while he appreciated Tahitian society for its social harmony, remained critical of its hierarchy. In comparison, Banks appreciated Tahitian society for its hierarchical structure. Shortly after he landed, Banks was eager to find the rulers of the island, likening the scene before him to ‘the truest picture of an Arcadia of which we were going to be kings’. Banks formulated this view after he found that the people who greeted him were ‘only of the common sort’, believing his social status as a prominent English landowner gave him the right to preside over this utopian society as a kind of monarch. After his return from the South Seas and

36 Nina Rattner Gelbart, ‘The blonding of Charlotte Corday’, Eighteenth-Century Studies, 38 (2004), pp. 201–21, at p. 214.
37 Goldstein, Georg Forster, p. 178.
38 Stevens, Biological systematics, p. 25.
39 Smith, European vision, pp. 82–5.
40 Spary, Utopia’s garden, pp. 227–8.
41 Georg Forster to Therese Forster 21 Aug. 1793, qu. Goldstein, Georg Forster, p. 173.
42 Joseph Banks, ‘Endeavour journal, 25 August 1768–12 July 1771’, Sydney, State Library of New South Wales, Banks papers (Safe 1/13), fo. 217.
43 Hoppit, ‘Sir Joseph Banks’s provincial turn’, p. 413.
rapid social elevation, Banks built a ‘learned empire’ of naturalists and by the 1790s he was commonly referred to as a ‘monarch’ of natural history. Banks’s prominent position was not only threatened by but inspired his vehement opposition to the Revolution.  

A major concern Banks and his correspondents had with the developments in continental politics was the slowing of progress in the sciences. This was expressed to Banks in 1788 by the French traveller and geologist Barthélemy Faujas de Saint-Fond, who commented in a letter dated 18 May, just after the initial demands by the Paris parlement to call the Estates General, that ‘The malady of politics, which is becoming an epidemic in Europe and is starting to take hold of us too, will also affect the sciences with which it has little to do.’ By 1791, the abbot and botanist Pierre André Pourret commented that the Revolution had ‘overturned my fortune and my hopes in quick succession, had deprived me of the means of corresponding with people who honoured me with their kindless’. In his response, sent shortly after the disillusion of the French Legislative Assembly, Banks offered Pourret sanctuary in Britain, commenting that France was descending ‘into troubles which She will not Extricate herself from without bloodshed during the terrible Calamity if it should befall you a peaceable & scientific return with us Could not fail to be agreeable with you’. However, Pouret emigrated to Spain where he remained until his death in 1818.

Banks’s home at 32 Soho Square soon became a haven for French émigrés from the 1790s. When he visited Banks in 1805, the American chemist Benjamin Silliman described how ‘I may not perhaps make so much use of the breakfasts as a French loyalist is said to have done’, adding that ‘this man having fled from the guillotine in France, found access at Sir Joseph Banks’s, and met that liberal reception which is known to characterize the house’. The emigration of European natural historians and philosophers to London and their congregation at Banks’s home increased his deep fear and hatred of the Revolution. This was solidified by first-hand accounts of the executions of several French philosophers. For example, in a letter sent in 1792,
Banks’s friend and secretary of the Royal Society, Sir Charles Blagden, described his departure from Paris:

two of our carriages, of which mine was one, being a little behind the other as we went from Paris, the mob rose upon us, threatened to hang us, to tear the children in pieces, & really appeared so perfectly mad that it was impossible to say what violence they might commit.50

These early reports of the Terror generated absolute fear in the hearts of many British aristocrats and were exacerbated by political events in Britain. Banks described to the Neapolitan ambassador, William Hamilton, how ‘We are here in some sort of terror from the active pains those who wish for a scramble are taking to raise the lower orders into a wish for Equality’, a reference to radicals such as the chemist and preacher Joseph Priestley.51

The combination of revolutionary ideals, a French invasion, and a potential revolt of the English lower classes caused Banks, as one of the most prominent landlords in Lincolnshire, significant concern. When Banks held the office of high sheriff of Lincolnshire in 1794, he published a pamphlet entitled *Outlines of a plan of defence against a French invasion intended for the county of Lincoln* and expressed that ‘the probability of the French very soon invading this island, with a force infinitely superior to that at present provided for its defence, is very great’.52 This pamphlet presents an unusual foray into publishing in the public sphere for Banks, who wished to make his views on the Revolution and the threat posed by a French invasion known to the ‘gentlemen, yeomanry and farmers’ of Lincolnshire. Banks believed this sector of society had the power to reform the domestic military, put ‘his native county in a state of defence’, and ‘defend it from the whole French army’.53 This widely distributed pamphlet, in which Banks presented an enumeration of the men available to defend the county and a breakdown of the annual expenditure for maintaining troops, ensured that Banks’s views were well known, placing his support behind William Pitt’s government and strengthening his position at court.

By disrupting Banks’s international patronage and correspondence networks, the Revolution hindered his regime at the Royal Society and natural historical programme. By 1798, the Dutch lawyer and politician Pieter Hieronymus van Westrenen (1768–1845) explained to Banks that another correspondent did not forward books and letters because ‘he deared not Send them to me, fearing they wood be taken in the passage [sic]’.54 Banks repeated these

50 Blagden to Banks, 5 Sept. 1792, in Chambers, *Scientific correspondence*, iv, p. 148.
51 Banks to Hamilton, 20 Nov. 1792, in ibid., p. 171.
52 Joseph Banks, *Outlines of a plan of defence against a French invasion; intended for the county of Lincoln; but applicable in all other counties* (1794), Lincoln, Lincolnshire Archives, LCL/Lincolnshire Collection/box 12/2 (Banks Collections), p. 1; Hoppit, ‘Sir Joseph Banks’s provincial turn’, p. 413.
53 Banks, *Outlines of a plan*, p. 1.
54 Van Westrenen to Banks, 20 Sept. 1798, in Chambers, *Scientific correspondence*, iv, p. 556.
views in a letter to the Austrian physician Nicolaus Thomas Host in 1812; ‘I have not for some years received any thing from Germany, the French permit us to have some but not many books from France but they effectually prevent all literary intercourse with Germany.’ These comments reflect the disruption in the book trade, which Jonathan Topham has shown to have slowed the import of publications from the German States more than those from France. Book exchange was central to Banks’s means for integrating himself with continental European naturalists and its hindrance slowed the communication of natural knowledge and reduced Banks’s authority.

II

Georg Forster’s death in January 1794 was a major incentive for Banks to produce *Icones plantarum*, 129 plates based on the botanical illustrations Banks had purchased from Forster in 1776 and engraved during the mid-1790s by Banks’s live-in engraver, Daniel Mackenzie (d. 1799/1800). By producing this great work after Forster’s death, Banks distanced it from any association with the latter’s revolutionary ideals. This section shows how the Revolution shaped the production of *Icones plantarum*, from acquiring the physical materials to natural-historical practices employed when producing the plates. The 129 engravings were produced on sixty-five double-sided copperplates, one of which was engraved on the verso of the last plate from Banks’s book on Japanese plants, *Icones selectae plantarum* (1791). It seems these plates were purchased and engraved after 1791 to form a continuation from Banks’s previous work.

Perhaps the most obvious impact of the war and Revolution on Banks’s natural history work exhibited through the case of the plates for *Icones plantarum* was the rise in costs associated with materials. For example, the copperplates for *Icones plantarum* were engraved on both sides, thereby halving the expenditure on the copper. Banks previously paid Mackenzie four guineas per engraving for William Aiton’s *Delineations of exotick plants* (1796), a price that did not take the initial costs of the copper sheets into account. Mackenzie probably received a similar rate to engrave Forster’s illustrations which would have

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55 Banks to Host, 25 Feb. 1812, in ibid., vi, p. 77.
56 Topham, ‘Science, print’, pp. 311–12.
57 Dryander, *Catalogus*, p. 522.
58 Engelbert Kaempfer, *Icones selectae plantarum*, ed. Joseph Banks (London, 1791), plate 59. London, Natural History Museum (NHM), Banks Copper Plate Collection, *Icones/59, Forster/115*.
59 William Aiton, *Delineations of exotick plants cultivated in the Royal Garden at Kew: drawn and coloured, and the botanical characters displayed according to the Linnaean system* (London, 1796). The copy held by the NHM contains a note by Everhard Home which describes Banks’s expenditure on the engravings.
totalled approximately £541. Reducing the expenditure on the copper was essential given that the Revolutionary Wars caused the price of raw copper to almost double from 1788 to 1799. This escalation led to a parliamentary inquiry in 1799. The Birmingham industrialist Matthew Boulton, a friend of Banks with particular interests in copper manufacturing, became markedly hostile towards the Revolution due to the problems it posed for sourcing materials. In 1801, the British government abolished the duties on copper destined for domestic markets to reduce the price for objects such as printing plates. In spite of this, copper remained expensive until the fall of Napoleon in 1815.

The high price of copper was coupled with a government duty on paper. In 1803, this cost three pence for every pound in weight of printing paper, adding to the total outlay on production for every publication. These additional expenses are reflected in Banks’s comments to William Roxburgh in 1796: ‘just now no Books can sell on account of the pressure of Taxes & voluntary contributions’.

By the mid-1790s, the entire domestic economy was set against the production and publication of large natural history images. Problems with the production processes combined with the steep increase in copper prices made Icones plantarum expensive to produce. These problems were apparent throughout Europe. In a letter sent to Banks in 1798, van Westrenen commented ‘Times of wars and revolutions are not favourable to literary productions, it makes that few books are coming out worth of any notice.’

Many of the plates engraved for Icones plantarum depict plants Forster collected and illustrated on the shores of the islands of the Pacific, such as Tahiti, which he visited between 17 August and 16 September 1773. A typical example is a species Forster ascribed the binomial Dianthera clavata Forst., of which he produced a pen and ink illustration that was later painted over in watercolour. The main purpose of the illustration was to preserve vestiges of the plant’s original physical structure before Forster placed it in paper wrappings to dry it for his herbarium (Figure 2). Forster’s image of Dianthera clavata was located towards the front of the illustrations Banks purchased and then had ordered and bound according to the Linnaean system. The Linnaean approach to ordering species revolved around detailed instructions for the classification and depiction of plants which Linnaeus had initially laid out in Critica botanica (1737) and reaffirmed in Philosophia botanica...
Fig. 2. (Left) The illustration of *Dianthera clavata* Forster produced in 1773. (Centre) The copperplate engraved by Daniel Mackenzie based on Forster’s illustration, produced between c. 1794 and 1800 (31.9 × 21.6cm). (Right) The original impression taken from the copperplate. The annotations are in the hand of Jonas Dryander, Banks’s librarian from 1782 to 1810. © The Trustees of the Natural History Museum, London.
Linnaeus emphasized the importance of ensuring that published illustrations were produced to the same scale as the living plant, omitting features which varied between different specimens of the same species, such as colour. Linnaeus also stated that the flowers and fruit, which contained essential taxonomic properties used to define the genus and species according to his system, had to be represented. Forster also applied colour and shadow to the leaves, conventions used to situate an observation in a particular time or locality. However, Forster only employed this practice sparingly, as described by Daniel Solander shortly after Banks purchased these illustrations; ‘the Drawings of Plants [are] Mere sketches, not one has a grain of colour laid in’.

When it came to producing the copperplates for Forster’s illustrations in the 1790s, Banks went to great lengths to erase features which held their basis in a particular specimen or observation. For example, the plate produced for Dianthera clavata has several marked differences when compared with the original illustration (Figure 2). The most noticeable is Mackenzie’s removal of shadows and colour from the engraving, an omission he applied to standardize all of the 129 images produced for Icones plantarum. This produced a series of archetypal images that avoided features particular to any single member of a species. These standardized images were of particular importance to botanists in the 1790s as the emphasis of particular physical features conveyed the relevant taxonomic properties of a plant and reduced synonymy.

Throughout his career, Banks emphasized the importance of images over textual descriptions for communicating information. In 1789, he commended the Scottish explorer of Ethiopia, James Bruce, for publishing images without descriptions as botanists could ‘learn from them without any assistance’. To ensure that the images published in Icones plantarum communicated accurate information on the physical structure of a species, Banks was careful to

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65 Arthur Hort, ed., The ‘Critica botanica’ of Linnaeus (London, 1938).
66 Kärin Nickelsen, Draughtsmen, botanists and nature: the construction of eighteenth-century botanical illustrations (Dordrecht, 2006), pp. 71–105.
67 Michael Baxandall, Shadows and Enlightenment (New Haven, CT, 1997), p. 2.
68 Solander to Banks, 5 Sept. 1775, in Edward Duyker and Per Tingbrand, eds., Daniel Solander: collected correspondence, 1753–1782 (Melbourne, 1995), pp. 159–60.
69 Georg Forster [original pencil and watercolour drawings of plants made during Capt. Cook’s second voyage], London, NHM, Botany Special Collections, box 1, fo. 17.
70 Nickelsen, Draughtsmen, p. 73; Lorraine Daston and Peter Galison, Objectivity (New York, NY, 2007). p. 60.
71 Nickelsen, Draughtsmen, pp. 83–4.
72 Banks to Bruce, 24 Dec. 1789, in Chambers, Scientific correspondence, iii, p. 520.
conform to the rules stipulated by Linnaeus. A major point Linnaeus stressed in *Philosophia botanica* was that images of plants ‘should be drawn in the natural size and position’, going on to comment that ‘The ancients’ pictures present the tallest trees and the smallest Alsines as of the same size…this should be carefully avoided.’ This represents a significant change in standards of botanical illustration. For instance, in Robert Morison’s *Plantarum historiae universalis Oxoniensis* (1672–99), illustrations of multiple species were often crammed onto the plates and reduced in size to cut costs. This resulted in many plant species being difficult to identify from the illustrations and they bore little resemblance to Morison’s herbarium specimens. In contrast, many of the images Banks purchased from Forster resemble a set of herbarium specimens Johann Reinhold Forster gifted to Banks in 1775. Amongst these, Forster listed a species he collected in New Caledonia and named *Leptospermum ciliatum*, the original specimen of which continues to share similarities with the finished engraving (Figure 3).

A typical pencil sketch Forster produced on Cook’s second voyage depicts *Thalia cannæformis* Forst., one of two new species Forster and the Swedish naturalist Anders Sparrman collected in the Vanuatu archipelago on 22 July 1774. The size of this illustration presented problems for Banks and his engraver, Daniel Mackenzie, when transferring these images onto copperplates during the 1790s. Banks intended to comply with the rules in *Philosophia botanica*, although a major difficulty was posed by the sizes of the available copperplates. Throughout his career, Banks purchased copper printing plates from a company founded by Richard Jones based in Shoe Lane, that had been taken over by William Pontifex after Jones’s death in 1788. Banks’s consistent purchases from Jones & Pontifex in the 1780s and 1790s are represented by the trade cards and copperplate receipts Banks’s sister, Sarah Sophia Banks, collected over the period when her brother had contact with the firm. The large copperplates Jones supplied for the images of plants produced on the *Endeavour* voyage were the same size as the larger plates used to engrave Forster’s illustrations. The smaller plates used for Forster’s botanical drawings are 50 per cent of the size of the larger plates. It seems the largest plates Jones

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73 Carl Linnaeus, *Linnaeus’ Philosophia botanica*, trans. Stephen Freer (Oxford, 2005), p. 283.
74 Scott Mandelbrote, ‘The publication and illustration of Robert Morison’s *Plantarum historiae universalis Oxoniensis*’, *Huntingdon Library Quarterly*, 78 (2015), pp. 349–79, at p. 375.
75 Johann Reinhold Forster, ‘Catalogue of a collection of plants presented to Joseph Banks Esq. by John Reinhold Forster and Georg Forster’, London, NHM, Botany Special Collections.
76 Revised to *Melaleuca ciliata* (G. Forst. 1786), London, NHM, General Herbarium, Specimen number: BM001015377.
77 Forster, ‘original…drawings’, NHM, box 1, fo. 1.
78 London, British Museum, Department of Prints and Drawings, Banks, 85. 127; Banks, 85, 128.
79 The larger plates are 46.4 × 31.9 cm.
80 The smaller plates measure 31.9 × 21.6 cm.
Fig. 3. An example of the similarities between the specimen Forster collected, the original drawing, copper plate, and copper plate impression for the species Forster ascribed the name *Melaleuca ciliata* in *Flora Australis* (1786), now re-named to *Purpureostemon ciliates* (G. Forst.) Gugerli. © The Trustees of the Natural History Museum, London.
& Pontifex supplied to private buyers were somewhat shorter and narrower than Forster’s original illustration of *Thalia cannaefornis*.

The size difference between Forster’s drawing and the available copperplate meant the image had to be adapted when it was engraved. Rather than reducing it in size, a common practice before the Linnaean reforms of the mid-eighteenth century, Banks and Mackenzie chose to create an incision in the image of the specimen itself. This is apparent at the base of the stalk where Mackenzie severed the branch containing the leaves from that which bears the flowers and fruits (Figure 4). The splitting of Forster’s image ensured the major constituent parts conformed to the Linnaean description of *Thalia cannaefornis* and were not reduced in size. Rather, they were moved around to accommodate the size of the copperplate. The branch that bears the flower and fruit was then superimposed over that which depicts the leaves. This was a common practice of late eighteenth-century botanical illustration and is apparent in publications such as William Curtis’s *Botanical Magazine* and reflects the manner Banks expected botanists to interpret the printed image. According to the Linnaean system, the sexual organs were of paramount importance for constructing a diagnosis for a species, which started with the calyx and then moved onto the corona, stamens, pistils, and fruit before ending with the seeds. Of the next level of importance were the number, shape, and position of parts such as the leaves. The secondary importance of the leaves influenced the decision to obscure them with the more important characters.

Mackenzie’s death around 1800 resulted in the last of these plates remaining incomplete. An example can be found in the case of plate 126 that depicts the species *Ployscias pinnata* G. Forst., on which Mackenzie has not finished engraving the flowers and fruits, leaving etched outlines which he intended to go over with a burin at a later date (Figure 5). The combination of the death of the engraver and the problems caused by the war contributed to the incompletion of Forster’s *Icones plantarum*, although this was not the only factor which influenced the extraordinarily limited distribution of this work.

### III

After Banks purchased the natural history illustrations from Forster, the relationship between these naturalists had been fraught. This becomes apparent from a letter Forster received from Sparrman on 15 September 1776:

What did Mr. Banks pay you for your Drawings and the other things he got? I would not make an offer of any thing to this gentleman if he does not make first advances and proposals, and than he would get nothing but duplicates…For my part however,
Fig. 4. (Left) Forster’s illustration of the species Thalia cannæfornis Forst. (48.7 × 34.8cm). (Centre) the copper plate engraved by Daniel Mackenzie (d. c. 1800) (46.4 × 30cm). (Right) The copperplate impression for Thalia cannæfornis Forst., the first in the series Banks had produced for Icones plantarum. © The Trustees of the Natural History Museum, London.
I would prefer to send somebody less avaricious of collections and the merit of them than he is.\textsuperscript{84}

Banks believed that anything in his personal possession remained his private property and after he had purchased these illustrations Forster lost all rights to their further use. Banks expressed this view in 1782 after Forster proposed to publish several zoological prints based on illustrations he had sold to Banks in 1776. Banks commented that Forster’s ‘Spicilegia’, a publication designed to form a series of miscellaneous images of plants and animals encountered in the Pacific, Contain some Drawings which were or ought to have been included in my purchase: you will not wonder if I am a little jealous of that for which I pay’d as I thought a generous price: of course you will not be surprised at any steps which I may take in consequence of such publication.\textsuperscript{85}

\textsuperscript{84} Sparrman to Forster, mid-Dec. 1776, in Brigitte Leuschner, Siegfried Scheibe, Horst Fiedler, Klaus-Georg Popp, and Annerose Schneider, eds., \textit{Georg Forsters Werke: Sämtliche Schriften, Tagebücher, Briefe} (Berlin, 1982), p. 27.

\textsuperscript{85} Banks to Forster, 20 May 1782, in ibid., p. 103. Forster’s ‘Spicilegia’ seems to have remained unpublished.
These problems with copyright resurfaced again in 1785 when Forster published several plates that he had received from the Admiralty which related to the account of Cook’s last voyage.86 Banks saw Forster’s attempts to publish material from his collection without consent as an attack on fundamental concepts of personal property. Britain had just finished fighting the American Revolutionary War, which had been concluded with the Treaty of Paris in 1783. As Adrian Johns has suggested, the piracy of printed books was a major sign of defiance and insurrection that the American Revolutionaries used against British forces in the New World.87 Another centre for pirated publications was Dublin, where print and booksellers consistently disregarded the copyright provisions laid down by the statute of Queen Anne in 1710.88 Ireland, like North America, was seen as a hive of insurrection by the 1790s. The Irish Rebellion of 1798 drew many ideals from the revolutions in Europe and North America and culminated in the Act of Union of 1800, which decimated the Irish re-printing industry.89 As a result, Banks presumably saw Forster’s publication of materials without his permission as an act of defiance and insurrection against the British Admiralty and his own authority. Forster’s actions associated aspects of Banks’s collection and the broader practice of natural history with the undermining of the established social order.

A continual concern with copyright and the association of commercial publishing with political insurrection reinforced Banks’s views that natural history books should be reserved for a select audience who would benefit from the information they contained. For Banks, a prominent English landowner by the 1790s, this practice continued an aristocratic gift economy that had emerged in the sixteenth century and mirrored the approaches to distributing publications used by his contemporaries.90 For example, John Stuart, the third earl of Bute, ensured that only twelve copies of his Botanical tables (1785) were published and then gifted to naturalists and aristocrats who had interests in natural history.91 Recipients included King George III and Queen Charlotte, some of the major patrons of natural history during this period, in addition to Banks.92 Similar ideas influenced the publications Banks managed from

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86 Banks to Forster, 15 Nov. 1785, in ibid., p. 134.
87 Adrien Johns, Piracy: the intellectual property wars from Gutenberg to Gates (Chicago, IL, 2009), p. 179.
88 Richard B. Sher, The Enlightenment and the book: Scottish authors & their publishers in eighteenth-century Britain, Ireland & America (Chicago, IL, 2006), p. 444.
89 Ibid., p. 439.
90 Mario Biagoli, Galileo courtier: the practice of science in the culture of absolutism (Chicago, IL, 1993), pp. 38–9; Anna Giulia Cavagna, ‘A free transmission of knowledge: the literary gifts and reception of an eighteenth-century scholar’, in James Raven, ed., Free print and non-commercial publishing since 1700 (Aldershot, 2000), pp. 29–47.
91 Miller, ‘Lord Bute’, pp. 214–15.
92 Maureen H. Lazarus and Heather S. Pardoe, ‘Bute’s Botanical tables: dictated by nature’, Archives of Natural History, 36 (2009), pp. 277–98.
the mid-1780s. For example, during the production of Roxburgh’s *Plants of the coast of Coromandel* (1795–1819), Banks explained that ‘The publication at present goes on but slowly, the Court find it expensive because they give away a great number of colored copies.’ Although this book was nominally published by a commercial bookseller, Banks used his influence to ensure the East India Company gave the majority of copies away to practitioners or patrons of natural history. Gifting lavish publications secured Banks’s reputation as a patron of natural history and a gentleman who did not need to rely on profits from commerce or government grants for his income.

Banks created a similar network of exchange when circulating and editing the *Philosophical Transactions*, which was given to Fellows of the Royal Society and made financially viable, at least in theory, by membership fees. Banks had a huge amount of power over the content and, although he sometimes sought an informal alternative opinion when reviewing articles, he had the final decision on acceptance. As a result, Banks made sure his personal network and that of the Royal Society were not being used to circulate anything which could be associated with the Revolution. By the 1790s, the Society was governed by a range of carefully selected individuals who were able to defend its interests during the political unrest. Gifting publications solidified this complex network of naturalists, institutions, and members of the government that formed the Banksian Learned Empire.

As the Revolution accelerated towards the Terror, Banks ensured that the audience for materials collected from the South Seas was even more specific than that of the journals of scientific societies. This is made clear by Forster, who, when writing to the historian Christian Wilhelm von Dohm in 1792, described the manner of accessing materials Banks and Solander had collected on Cook’s first voyage to the Pacific between 1768 and 1771:

Banks is a Monopolist of everything that comes from the South Seas, he hates my father, envies me, publishes nothing, but leaves behind his enormous work of 1700 copperplates as Opus posthumum, because nobody can complete the text after Solander’s death, and enjoys for the rest of his life to have this great work in his possession, so that people can always ask him if and when it will come out.

Forster’s comments show that Banks never intended to circulate these illustrations or descriptions; those who wished to use them were forced to visit his home.

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93 Banks to Roxburgh, 9 Aug. 1798, Chambers, *Scientific correspondence*, iv, p. 527.
94 Porter, ‘Gentlemen and geology’, p. 814.
95 Csizsar, *Scientific journal*, pp. 54–9. Authors were also required to pay for printing paper.
96 Aileen Fyfe and Noah Moxham, ‘The Royal Society and the prehistory of peer review, 1665–1965’, *Historical Journal*, 61 (2018), pp. 863–89, at p. 872.
97 David Miller, ‘“Into the valley of darkness”: reflections on the Royal Society in the eighteenth century’, *History of Science*, 27 (1989), pp. 155–66.
98 Miller, ‘Between hostile camps’.
99 Forster to Dohm, 7 Jan. 1792, in Klaus-Georg Popp, ed., *Georg Forsters Werke: Sämtliche Schriften, Tagebücher, Briefe, Briefe 1792 bis 1794 und Nachträge* (Berlin, 1989), pp. 22–3.
at 32 Soho Square. Banks could now limit access to this material to a select
group who shared his political views. This was by no means the first time
Banks had received criticism from continental European naturalists for his atti-
tude towards publication. In the 1780s, the French Académie, who typically
elected members on the basis of the merit of their publications, refused to
elect Banks as a foreign associate because of his lack of published work.¹⁰⁰
Banks, however, maintained that he had avoided the ‘Reputation of an
Author’ throughout his career, which he did ‘not consider a gentlemanly voca-
tion’,¹⁰¹ a view he shared with Bute, Henry Cavendish, and others among the
elite. Authorship was, indeed, secondary to patronage when it came to elevation
within the London-based scientific community, showing a distinct difference
between British and continental practices.

Banks frequently advised Jonas Dryander, his librarian, to monitor the behav-
iour of naturalists who used the library at Soho Square to make sure they were
not copying images for potential publication.¹⁰² This concern partly came from
many of the plants illustrated by Sydney Parkinson on Cook’s first voyage origin-
ating in Tahiti. From the early 1790s, Tahiti and its association with an egalitar-
ian and plentiful society—a representation inspired by the publication of the
journals of Cook, Forster, and Bougainville—had contributed to the destruction
of the ancien régime and threatened the long-standing European social order.¹⁰³

The reality of these threats to established social structures, including those of
the Navy, became immediate to Banks after the mutiny of HMS Bounty in
1789, an event inspired by the beauty of Tahiti.¹⁰⁴

For Banks, the illustrations he had commissioned to represent plants from
Tahiti retained vestiges of the island’s original beauty and had the potential
to inspire revolutionary thought. This was in spite of the various taxonomic con-
ventions Banks and his engravers employed when producing the plates to
represent the botanical discoveries of Cook’s first voyage and Icones plantarum.
Features such as colour, which were omitted from all of the printed images in
Icones plantarum, had the potential to associate Banks’s South Seas collections
with ideas of ‘Jacobin plants’.¹⁰⁵ These were commonly associated with liberty
and sexual freedom in Britain by figures such as Erasmus Darwin who was criti-
cized by anti-Jacobins for his lack of respect for Linnaean taxonomic doc-
trine.¹⁰⁶ The images Banks commissioned are very different to the plates

¹⁰⁰ Hannah Wills, ‘Joseph Banks and Charles Blagden: cultures of advancement in the scient-
ific worlds of late eighteenth-century London and Paris’, Notes and Records: The Royal Society
Journal of the History of Science, 73 (2019), pp. 477–97; at p. 487.
¹⁰¹ Banks to the duchess of Somerset, 31 Aug. 1816, qu. Harold B. Carter, Sir Joseph Banks
(1743–1820): a guide to biographical and bibliographical sources (Winchester, 1988), p. 153.
¹⁰² Rose, ‘South Seas’, p. 520.
¹⁰³ Martin, ‘Enlightenment’, p. 215.
¹⁰⁴ Smith, European vision, p. 147.
¹⁰⁵ Alan Bewell, "‘Jacobin plants’: botany as social theory in the 1790s’, Wordsworth Circle, 20
(1989), pp. 132–9.
¹⁰⁶ Kelley, Clandestine marriage, p. 80.
published in works such as Robert John Thornton’s *Temple of Flora* (1799–1807), a book compiled from large, colour botanical illustrations, the main subjects in which were superimposed in front of an intricate landscape background. Thornton’s images were designed to integrate botanical practice into a new revolutionary art form, combining the science of botany with critiques of established social and taxonomic structures and were intended to be expensive, popular, and mass produced to turn Thornton a large profit. Through Thornton’s combination of commercial publishing and mass distribution with a lack of respect for Linnaean conventions associated these practices with the radical thought of the Revolution. As a result of the revolutionary connotations associated with botany, the Pacific, and commercial publishing, Banks sought to remove information on the natural history of the Society Islands from the public sphere and make sure it was restricted to a select social group who would use it to add to botanical knowledge and not provoke revolutionary ideals.

Forster held very different views on publishing his findings from the South Seas. Like many continental natural philosophers and historians, he believed that publishing was central to advancing his reputation as a naturalist; he thus sought to utilize the commercial publishing industry to maximize his income and ensure the wide distribution of his ideas. This is apparent from a letter to Banks dated 11 December 1785 in which Forster described how he ‘took an early opportunity’ to introduce the German ‘public’ to the results of Cook’s second voyage through an article in the *Göttingisches Magazin*. This is a somewhat similar strategy to that used by Voltaire, whose major motivation for publishing was to use booksellers’ desire for profits to improve the quality of his books and spread enlightenment. Another incentive for authors to maximize the circulation of publications was the potential of payments and profits. This was of use to Forster, allowing him to add to his own reputation and generate income to alleviate the numerous debts he had incurred since the mid-1770s.

Banks’s and Forster’s contrasting approaches to publishing led to direct conflict after the latter’s move to Mainz. On 24 May 1790, Forster wrote to his father-in-law, the Göttingen-based classicist Christian Gottlob Heyne, commenting that ‘Sir Joseph Banks is polite and cold, like he is against every

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107 Ibid., p. 75; Clive Bush, ‘Erasmus Darwin, Robert John Thornton, and Linnaeus’ sexual system’, *Eighteenth-Century Studies*, 7 (1974), pp. 295–320, at p. 315; M. A. Mollendorf, ‘The world in a book: Robert John Thornton’s Temple of Flora (1797–1812)’ (Ph.D. thesis, Harvard, 2013), p. 182.

108 Forster to Banks, 11 Dec. 1785, Canberra, National Library of Australia, MS 9-Papers of Sir Joseph Banks, Series 3/Item 77p; Georg Forster, ‘O-Tahiti’, *Göttingisches Magazin der Wissenschaft und Literatur*, 1 (1780), pp. 69–104.

109 Robert Darnton, ‘What is the history of books?’, *Daedalus*, 111 (1982), p. 72.

110 Geoffrey Turnovsky, ‘The Enlightenment literary market: Rousseau, authorship, and the book trade’, *Eighteenth-Century Studies*, 36 (2003), pp. 391–3.

111 Goldstein, *Georg Forster*, pp. 84, 176.
scholar; but in his heart he is the enemy of everyone who knows something of the southern sea’, adding that William Hodges and John Webber, the artists who had travelled on Cook’s second and third voyages, held ‘bitter complaints against’ Banks. Forster believed Banks’s interpretation of copyright, methods of distributing publications, and attempts to prevent Hodges and Webber from publishing images, was not a model naturalists should follow. After visiting Soho Square in 1790, Forster held Banks and his means for disseminating the most recent research on natural history in disdain. Banks used his ‘breakfast meetings’, which were held at Soho Square and attended by naturalists and philosophers who discussed the most recent publications and discoveries, as a major forum to discuss and distribute information. When describing these gatherings to Heyne, Forster commented on the reception of James Bruce’s Travels to discover the source of the Nile (1790), describing how ‘Bruce’s travels in Abyssinia are even less respected in London than they deserve’, adding that ‘At Banks’s [house], where one judges sharply in general, they spoke such damming judgements that they even made him [Bruce] suspicious from the side of his credibility.’ Forster’s observation of the reception of Bruce’s publication reflects the power Banks and his circle had over the reputation of new books that related to the fields of natural history and exploration. The source of Banks’s dissatisfaction with Bruce’s work was that, according to Forster, ‘the greedy audience devoured in a short time a monstrous amount of copies’. Bruce had utilized the Scottish commercial publishing markets and followed a similar publication plan to that Forster had in mind for the plants he had collected from the South Seas.

When Forster attempted during his visit to London in 1790 to publish the images of plants he had collected in the Pacific, Banks utilized his private wealth and institutional power to stop this publication. Forster described his efforts to publish to the German philosopher Friedrich Heinrich Jacobi in November 1791:

I wished to move the book sellers to publishing my plant descriptions from the Southern Sea. The fear to offend a man like Sir Joseph Banks, who believes to have a monopoly on southern sea plants, and to bring his damming judgement down on my book held them back. In Germany I may well find a publisher but not one who will pay me.

As this letter shows, Banks’s power over London booksellers was so far advanced that he could stop publications: Banks believed the marketing of books exposed information to potential copyists, showing the relative volatility of the commercial publishing industry induced by the Revolution. This attitude

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112 Forster to Heyne, 24 May 1790, in Georg Gottfried Gervinus, ed., Georg Forsters Sämtliche Schriften, viii (Leipzig, 1843), pp. 114–15.
113 Ibid., p. 123; James Bruce, Travels to discover the source of the Nile, in the years 1768, 1769, 1770, 1771, 1772, and 1773 (5 vols., Edinburgh, 1790).
114 Gervinus, ed., Georg Forsters Sämtliche Schriften, p. 123.
115 Forster to Jacobi, 6 Nov. 1791, in ibid., p. 157.
was reinforced after Pitt’s government passed the Treasonable Practices Act of 1795, which was designed to reduce the spread of radicalism in the popular press. Banks did not wish for the images of Forster’s South Seas plants to be published commercially, connecting it with the general circulation of radical literature.

The different political connotations associated with Tahiti, and especially that which increasingly related the island to radical politics as the Revolution progressed, ensured that Banks monitored those who viewed the images of plants Forster had produced in the South Seas. As a result, only two copies of *Icones plantarum* were printed in Banks’ lifetime, one of which he kept in close proximity to the original drawings and herbarium specimens at 32 Soho Square. Banks gave the other copy to the botanist Aylmer Bourke Lambert (1761–1842), who had purchased Forster’s herbarium after the death of Johann Reinhold Forster in 1798. Although Banks only envisaged a limited distribution for *Icones plantarum*, printing around ten copies, there were few opportunities to circulate this book to continental European naturalists due to the disruption of his network and patronage system. On 27 September 1798, Lambert wrote to James Edward Smith, president of the Linnean Society, exclaiming that I have the pleasure to inform you Forster’s Herbarium is at last arrived in London & is now at Mr Plantas for me. It is the original Herbarium of the Flor: Insul: aust Prod: each specimen names & answering to the numbers in that work & all the original specimens of Plants described by him in the Gott: Comments.

Banks’s gift of *Icones plantarum* at around the time Lambert purchased Forster’s herbarium reflects Banks’s desire to integrate these collections. Lambert had a similar social standing to Banks, owning substantial estates in Wiltshire, Ireland, and Jamaica, in addition to holding somewhat similar political views, coming from one of the more prominent Whig families of Wiltshire who remained staunch supporters of Pitt’s government during the 1790s. Lambert kept his library and herbarium in a large London house at 26 Lower Grosvenor Street. These were managed by several botanists over the years and followed a similar model to that used by Banks who hired a succession of librarians to work at Soho Square.

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116 Clive Emsley, ‘An aspect of Pitt’s “terror”: prosecutions for sedition during the 1790s’, *Social History*, 6 (1981), pp. 155–84, at p. 168; James Raven, *The business of books* (New Haven, CT, 2007), p. 212.
117 Bob Harris, *Politics and the rise of the press: Britain and France, 1620–1800* (London, 1996).
118 Hortense S. Miller, ‘The herbarium of Aylmer Bourke Lambert: notes on its acquisition, dispersal, and present whereabouts’, *Taxon*, 19 (1970), pp. 489–553.
119 Lambert to Smith, 27 Sept. 1798, London, Linnean Society of London, GB-110/JES/COR/23/50.
120 The assembled commons, 1836. An account of each member of parliament, embracing particulars of his family, descent, political influence, opinions, etc. (London, 1836), pp. 18–19.
121 Miller, ‘Aylmer Bourke Lambert’, pp. 499–505; Rose, ‘South Seas’, p. 501.
The gifting of *Icones plantarum* was essential for connecting Banks’s collection to Lambert’s, extending Banks’s influence over botanical practice. This was reinforced by their simultaneous use of the Linnaean system to manage their collections and standardize botanical information. The closeness of Lambert’s and Banks’s relationship is evidenced by the amount of time Lambert spent at 32 Soho Square. Correspondents, such as the German botanist Carl Friedrich Gaertner (1772–1850), addressed letters to Lambert at Soho Square, in which he asked for access to Banks and his resources. This close association explains why Lambert received a copy of *Icones plantarum*. When Lambert lent this book to Richard Pulteney in around 1800, the latter acknowledged its scarcity in his response: ‘Forster’s Icones. You are in high luck here!’ Lambert’s possession of this publication aligned his collection with Banks’s at Soho Square, since many of the plants depicted in the copperplates held their basis in the specimens Lambert had purchased from Forster’s heirs. Aside from these two copies, the *Icones plantarum* copperplates never left the basement rooms of Soho Square during Banks’s lifetime. Many of the plates were wrapped in the offprints of a pamphlet Banks wrote on financing a statue of the late duke of Bedford. These continue to encase several plates for *Icones plantarum* to this day (Figure 6).

IV

The case of *Icones plantarum* shows how Banks interwove the practice of producing and disseminating a natural history publication with gentlemanly etiquette and the counter-revolutionary agendas of the British government. A result of the momentum attached to materials collected from the Pacific by the French Revolution, Banks created a closed system for producing and distributing publications. This involved censoring *Icones plantarum* and any attempt Forster made to publish materials from the South Seas, preventing these images from being obtained by any who might use them to further the revolutionary cause which threatened the hierarchical structures Banks held in such high esteem.

Banks’s standpoint on the production and dissemination of knowledge defines the place natural history held in broader British society during the 1790s. Similar views on the usefulness of natural history to induce stability

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122 Gartener to Lambert, 16 Feb, 1806, London, British Library, Add MS 28545, fo. 36.
123 Pulteney to Lambert, 8 Feb., c. 1800, ibid., fos. 208–9.
124 Samuel Leigh Sotheby, *Catalogue of the valuable botanical library of the late A. B. Lambert, F.R. S., F.S.A., &c of Boyton House, Wiltshire, Esq.* (London, 1842), p. 21. Lambert’s copy is now held by the St Petersburg Botanical Garden: F. von Herder, ‘Verzeichniss von G. Forsters Icones plantarum in itinere ad insulas maris australis collectarum’, *Acta Horti Petropolitani*, 9 (1886), pp. 485–510.
125 Joseph Banks, *Proceedings of the meeting and of the committee for erecting a statue to the memory of the late duke of Bedford* (London, 1802).
were held by other opponents to the Revolution. Perhaps the most vocal was Edmund Burke, who, in his *Reflections on the Revolution in France* (1790) compared established social and religious hierarchies to the ‘ample collection of known classes, genera and species, which at present beautify the *Hortus Siccus*’. This is very different to Burke’s views on the physical sciences. For example, Burke rejected chemistry due to its association with Joseph Priestley and the fact that chemists could create their own classes for the multiple phenomena of nature rather than follow a prescribed set of rules. Thus, figures such as Burke and Banks believed the close study of nature and its incorporation within hierarchic systems of classification brought order and structure to British society in the face of the political unrest caused by the Revolution.

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126 Edmund Burke, *Reflections on the revolution in France* (London, 1790), p. 15.

127 Maurice Crosland, “The image of science as a threat: Burke versus Priestley and the ‘Philosophic Revolution’”, *British Journal of the History of Science*, 20 (1987), pp. 277–307, at p. 303.
This was central to contemporary defenders of the Linnaean system, who maintained that natural systems were intertwined with revolutionary politics which simultaneously threatened the social makeup of British society and the established order of nature. Banks mobilized his patronage network to defend the Linnaean system against the revolutionary natural systems, a similar standpoint to his views on the metric system of weights and measures.\textsuperscript{128} It was not until the second decade of the nineteenth century that Robert Brown was able to introduce natural systems of classification in Britain, a feat he justified by anglicizing the new classificatory models by aligning them with the system developed by John Ray over a century before.\textsuperscript{129} Banks’s creation of a solid powerbase and patronage network maintained the dominance of Linnaean systematics in Britain until the 1820s, long after it had been superseded by natural systems on the continent. In 1831, the botanist John Lindley, who was determined to redefine botany as a new science, described how the decade approaching 1800 was dominated by a Linnaean ‘clique of English botanists’ that formed a ‘botanical aristocracy’ which claimed any who used natural systems were ‘misled by revolutionary motives’.\textsuperscript{130}

\textit{Icones plantarum} reflects a larger scheme Banks initiated to induce stability in the sciences which was integrated with the intentions of Pitt’s government and the counter-revolutionary state. The Linnaean system proved essential for imposing order on nature and aligned with Banks’s interests in maintaining social order. Order in nature and society enabled Banks to grow his income from country estates. The stability in Banks’s position throughout the revolutionary period allowed him to consolidate his station as an independent gentleman and ‘monarch’ of natural history, bringing the flora of the South Seas under the fold of the hierarchic structures Banks held in such high esteem. \textit{Icones plantarum} combined the natural history of the Pacific with British, or more importantly English, gentlemanly etiquette, setting Banks aside from individuals such as Forster who combined the utopian vision of the South Seas islands with the egalitarian ideologies of the Revolution and commercial publishing. Unlike radicals such as Joseph Priestley or John Wilkes, whose homes were attacked by church and king crowds in the 1790s, Banks maintained political stability in his affairs throughout the revolutionary period. Only in 1815 did a mob, objecting to Banks’s support for the Corn Laws, force their way into 32 Soho Square causing ‘boxes of valuable papers to be scattered in the street’.\textsuperscript{131}