



Report of the 23rd Meeting of the World Flora Online Council

Virtual, 3rd October 2024

The 23rd meeting of the World Flora Online (WFO) Council was held online on Thursday 3rd October 2024, attended by 28 people representing 17 organisations/institutes.

Attendance:

Alan Elliott	Royal Botanic Garden Edinburgh, Edinburgh, UK
Alex Monro	Royal Botanic Gardens, Kew, London, UK
Catherine Martin	Missouri Botanical Garden, St Louis, Missouri, USA
Chuck Miller	Missouri Botanical Garden, St Louis, Missouri, USA
Dalila Espírito-Santo	University of Lisbon, Lisbon, Portugal
Eduardo Dalcin	Instituto de Pesquisas Jardim Botânico do Rio de Janeiro, Rio de Janeiro, Brazil
Eve Lucas	Royal Botanic Gardens, Kew, London, UK
Geoffrey Levin	Canadian Museum of Nature, Ottawa, Canada
Gunter Fischer	Missouri Botanical Garden, St Louis, Missouri, USA
John Parnell	Trinity College Dublin, Dublin, Ireland
Jordan Teisher	Missouri Botanical Garden, St Louis, Missouri, USA
Lauren Raz	Universidad Nacional de Colombia, Bogotá, Colombia
Marc Sosef	Meise Botanic Garden, Meise, Belgium
Marianne Le Roux	South African National Biodiversity Institute (SANBI), Pretoria, South Africa
Mark Watson	Royal Botanic Garden Edinburgh, Edinburgh, UK
Mónica Moraes	Universidad Mayor de San Andrés, Las Paz, Bolivia
Nicola Schönenberger	Conservatoire et Jardin Botaniques, Geneva, Switzerland
Nye Hughes	Associate, Royal Botanic Garden, Edinburgh, UK
Ogün Demir	Nezahat Gökyiğit Botanik Bahçesi, Istanbul, Turkey
Peter Fritsch	Fort Worth Botanic Garden, Botanical Research Institute of Texas, Texas, USA
Peter Moonlight	Trinity College Dublin, Dublin, Ireland
Peter Wyse Jackson	Missouri Botanical Garden, St Louis, Missouri, USA
Pierre Bonnet	PI@ntNet, Montpellier, France
Quanita Daniels	National Botanical Research Institute, Windhoek, Namibia
Raoul Palese	Conservatoire et Jardin Botaniques, Geneva, Switzerland
Roger Hyam	Royal Botanic Garden Edinburgh, Edinburgh, UK
Tony Mast	Missouri Botanical Garden, St Louis, Missouri, USA
Walter Berendsohn	Botanic Garden and Botanical Museum Berlin-Dahlem, Berlin, Germany

The following is a summary report of the meeting of Council and decisions adopted. Presentations given at the meeting are available on the WFO OwnCloud online storage, <https://cloud.worldfloraonline.org>

1. Welcome

Council Co-chair Peter Wyse Jackson began the meeting and welcomed all participants.

The draft agenda was adopted as follows:

1. Welcome and adoption of the draft agenda *Lauren Raz, Mark Watson and Peter Wyse Jackson*
2. Apologies for absence
3. Adoption of the Report from the 22nd meeting of the WFO Council (Forth Worth, Texas, 21st March 2024)
4. Update on the Global Strategy for Plant Conservation (GSPC) and Global Partnership for Plant Conservation (GPPC), and links to WFO *Peter Wyse Jackson*
5. New WFO Consortium Members
6. Report from the WFO Gatekeeper *Tony Mast*
7. Report from the Taxonomic Working Group *Mark Watson and Alan Elliot*
Discussion and adoption of recommendations
8. Report from the Technical Working Group *Chuck Miller and Walter Berendsohn*
Discussion and adoption of recommendations
9. Report from the Identification Task Force *Eve Lucas*
Discussion and adoption of recommendations
10. Report from the Communications Working Group *Nicola Schönenberger and Catherine Martin*
Discussion and adoption of recommendations
11. Report on WFO registration as an Association under Swiss law *Nicola Schönenberger*
12. Best practice in global list governance by Catalogue of Life *Lauren Raz*
13. Review of Action Points from the last meeting (other than those covered above)
14. Arrangements for the 24th WFO Council meeting
15. Any Other Business

2. Apologies for absence

Apologies for absence from the meeting were received from Olaf Bánki (Catalogue of Life), Thomas Borsch (Germany), Thomas Haevermans (France), Fabian Michelangeli (USA), Andreas Müller, Alan Paton (UK), and Visotheary Ung (France).

3. Adoption of the Report from the 22nd meeting of the WFO Council

The Report of the 22nd WFO Council meeting, held in person with virtual participation 21st March 2024 in Forth Worth, Texas USA, was adopted and will be posted on the WFO About Pages.

4. Update on the Global Strategy for Plant Conservation (GSPC) and Global Partnership for Plant Conservation (GPPC), and links to WFO

Peter Wyse Jackson gave an update on the Global Strategy for Plant Conservation (GSPC) and Global Partnership for Plant Conservation (GPPC), in relation to WFO. There had been no new developments with the GSPC since the adoption of the Draft Recommendation on Plant conservation ([Recommendation 25/3](#)) by SBSTTA 25 in 2023. GSPC's 'voluntary complementary action relating to plant conservation' supporting the implementation of the Kunming-Montreal Global Biodiversity Framework, as recommended by SBSTTA, will be tabled for adoption at CBD's 16th Conference of the Parties (COP 16) scheduled to be held in Cali, Colombia, 21 October-1 November 2024. Peter Wyse Jackson will be participating in COP16 as part of the Botanic Gardens Conservation International presence, and will present on WFO at a side event. Mónica Moraes will also be attending.

5. New WFO Consortium Members

Guanxi Institute of Botany, PI@ntNet, Herbario Nacional de Bolivia and Cartagena Botanical Garden have joined the WFO as consortium members since the last meeting of the WFO Council.

6. Report from the WFO Gatekeeper

Tony Mast, WFO Gatekeeper, provided an update on progress made since the last meeting (see presentation on OwnCloud). The problems affecting the WFO Portal at the beginning of the year have been fixed, and performance has been good since March. The Portal has been modified to update the social media links and Stories tab added to support the work of the Communications Working Group. The content has been updated to the June 2024 classification, content from Flore du Gabon and Begonia has been added, and Bryophytes are linked to Tropicos. The Geoserver was brought back online in April and WCVP distribution data added in May, enabling the display of maps with native and introduced distribution. The PlantList.org is now much less findable as its not included in Google search indexes, and Microsoft has been requested to remove it from Bing. For now the TPL website is maintained and an automated task restarts the server if it is overloaded. Tony supports the five WFO mailing lists and updated the Mailman server in May. WFO's document archive on OwnCloud experienced data loss earlier in the year due to permission settings. These data have been restored from backup, permission settings altered to prevent future loss, and the OwnCloud server was updated to Version 10.15 in August.

Harvesting status (Action Item 6).

Flor. Trop. East Africa & Fl. Trop. West Africa (Kew)	Version prior to 2/2023 - harvested
IUCN Conservation Status	Version dated 3/2024 - harvested
Improve Metadata for Images from Solanaceae & Flora of China	Get Clarification
Solanaceae Source	Contacted back to coordinate an updated dataset Version circa 2018/2019 - harvested

NYBG	Version prior to 2/2023 - harvested
Catalogo de las Plantas de Colombia	Version prior to 2/2023 - harvested
Australian Floras	Version prior to 2/2023 - harvested
Flore du Gabon and Flore d'Afrique centrale	Version dated 12/2023 - harvested
Flore du Gabon and Flore d'Afrique centrale	8/26/24 - Marc Sosef working on a new version 10-24-24 - Fixed the format. Waiting for Marc. Sunitha reached out to Alan.
Flora of Cambodia	Theary is working with Alan Elliott on name matching
GBIF Specimen Data	Check with Alan regarding Name Matching Recieved data - requires name matching/WFO IDs/harvesting
Flora of Nepal	Tony to find out where we can get this data No Data Recieved
Illustrated Treatments for Korea	Last response - coordinating to convert Word documents into structured data
Flora Helvetica	French descriptions pending.
Flora do Brazil	more descriptions being provided.
eMonocot descriptions (Kew, TBC)	PalmWeb descriptions pending harvesting
New FNA data	3/24 - Got data and content sample. Issues with Authors format. Reviewed file's DwCA format. Repeated Name Matching process as requested. Version prior to 2/2023 - harvested
African Plants Database	3/24 - African Plants Database – (distributions, ecology, biology) 200K names, 78K taxa. - Pending.
eFloramaghreb.org	6400 taxa – Pending.
Flora of Ireland	Could this be "Irish Names"? Tony to find out where we can get this data Implementing corrections to Name Matching Report.
Caryophyllales	Harvested Nepenthes taxa. Pending other taxa and all content from EDIT platform.
South Africa	Previously harvested, Sunitha to check on latest version

7. Report from the Taxonomic Working Group

Alan Elliott, WFO TEN Manager, provided an update on progress made since the last meeting (see presentation on OwnCloud). The June 2024 version of WFO Plant List incorporates updates to 1.39 million plant names, and over 40K names have been added. Family classification updates have been brought in for all bryophytes, Commelinaceae, Fabaceae, Gesneriaceae, Plumbaginaceae, Asteraceae tribe Cichorieae, tropical Melastomataceae, and several other families. 54% of families now have a TEN, representing 38% of accepted species, and 76% if TENs have provided updated classifications. The number of unplaced names and deprecated names continues to fall, accepted species have increased a little to 337.7K and synonyms rising to 990.7K. 93% of non-TEN families have been updated from WCVP 2.0 as the default classification. The success of WFO promotional activities at XX IBX in Madrid in July has

resulted in several firm offers of new TENs and many tentative offers. If all the offers come to fruition then coverage of families by TENs would rise to 58%, representing 70% of accepted species. The following proposals for new TENs were received:

- Acanthaceae: 207 genera, 5,481 species
- Brassicaceae: 354 genera, 4,164 species
- Malphiaceae: 76 genera, 1,431 species
- Malvaceae: 246 genera, 5,625 species
- Myrtaceae: 127 genera, 6,537 species
- Salicaceae: 354 genera, 4,164 species

Mark Watson, co-chair of the Taxonomic Working Group, continued the report from the Taxonomic Working Group (see presentation on OwnCloud). The proposals for new TENs were discussed and all were considered suitable to recommend for Council to authorise. Regular, monthly meetings between RBG Kew and WFO have built a common understanding of the requirements and workflows for integration of WCVP and WFO. The development of IPNI data and database system is also included in discussions as these are closely linked to WFO. Work is underway on a high-level agreement on future goals and next steps. WFO featured conspicuously at several international congresses and meetings, including: XX International Botanical Congress, July in Madrid, Spain; 8th Global Botanic Gardens Congress, August in Singapore; Bouchout+10 symposium, August in Disentis Monastery, Switzerland; and SPNHC-TDWG Conference, September in Okinawa, Japan. At IBC WFO was embedded in many presentations, there was a TEN side event and a WFO symposium, 100 taxonomists signed up to be a part of WFO and there were many offers of new TENs. A WFO paper series will be published in TAXON.

Council decisions on the Taxonomic Working Group recommendation

- 1) Council to authorise TENs for Acanthaceae, Brassicaceae, Malphiaceae, Malvaceae, Myrtaceae and Salicaceae **APPROVED**

8. Report of the Technical Working Group

Chuck Miller, co-chair of the Technical Working Group, presented a report from the Taxonomic Working Group (see presentation on OwnCloud). Work on the WFO Portal was reported earlier in the meeting by the WFO Gatekeeper. The move from Google Cloud servers to Missouri Botanic Garden infrastructure has now been thoroughly tested and the Google Cloud account closed. Discussions have started on developing a Technical Strategy to replace the aging eMonocot system with an updated infrastructure which will enable development of new functionality and provide future resilience. A multi-layered architecture is being proposed which incorporates a facet module to enable filtering. Other modules could be built to manage identification keys, specimen records, images, etc. A demonstration of a prototype facet-driven portal developed by Roger Hyam was presented. Next steps in the development of a new infrastructure will include continuing the development of the Technical Strategy, further development of the Facets module, and integration with the Identification Task Force.

9. Report from the Identification Task Force

Eve Lucas presented a report on behalf of the Identification Task Force. —: Pl@ntNet, through CIRAD, is now a member of WFO and Pierre Bonnet joined the Task Force. The Task Force met at the IBC and planned a range of pilot projects since undertaken at Kew and by the Pl@ntNet team. The Kew pilots had access to WFO descriptive data accessible at Kew. Making the WFO descriptive data available to Pl@ntNet and other external collaborators will allow more extensive use of the WFO data. Pilots show promise of using large language models to deconstruct descriptive data from Solanaceae, with potential to automate reconstruction of identification keys for Xper. Further pilot projects are underway at Kew testing the accuracy of LLMs for manipulation of descriptive data <-> trait matrices.

10. Report from the Communications Working Group

Nicola Schönenberger and Catherine Martin presented a report from the Communications Working Group. The work of the Communications Working Group has focused on defining the target audiences, including contributors to WFO and the users (especially conservation practitioners). Promotional leaflets produced by Geneva for the IBC were highly effective in raising awareness of WFO. These were produced in English, French and Spanish, and future material should also be produced in Russian, Chinese and Arabic (the official languages of CBD). The Working Group has been active on Social Media, and Catherine Martin summarised the analytics from this work (see summary on OwnCloud). Facebook has reached 8,600 people, with 1,500 visits and 1,400 followers. X(Twitter) has 907 followers, and the new LinkedIn page 91 followers. The best performing posts across all platforms are those that are shared by our partners, and we need to be proactive in encouraging this. We need more content in order to post more frequently, and WFO should consider paying to boost important posts on platforms such as LinkedIn in order to maximise impact.

11. Report on WFO registration as an Association under Swiss law

Following the last WFO Council meeting (22nd Forth Worth) at which Nicola Schönenberger presented a draft statute for a WFO association registered in Switzerland, it was decided to pursue the project. The statutes will be reviewed with a lawyer, a new version emailed to Council members, and presented at the next in-meeting in person (24th Council meeting, Eleuthera) for decision. If there is consensus, a Council meeting should be planned in Geneva so that the constitutive assembly can be held in Switzerland.

12. Best practice in global list governance by Catalogue of Life

In 2023, the Catalogue of Life Species List Governance Group (SLGG) was created to develop two sets of metrics to evaluate and monitor the quality of global species list governance and global species list content, respectively. This activity is being carried out with the support of a grant awarded to Stephen Garnett of Charles Darwin University, Australia, and with the participation of Claire Johnston, a postdoc who is involved in all aspects of the research. Between 2023 and 2024 a set of 12 governance metrics were developed based on principles proposed by Garnett et al. (2020), and incorporating feedback from a global survey of list users (Lien et al. 2023). An additional 24 content metrics were developed based on criteria proposed by Pyle et al (2021). The two sets of metrics were tested during 2024 by enlisting volunteers to assess the lists they manage. Among plant lists, these included those managed by the WFO

Conifer TEN, the Legume TEN and the South African Plant list, the latter as a preliminary test case for evaluation of a national species list. Scores were immediately calculated and results shared with participants. Some of the highest attainable scores are admittedly aspirational for certain metrics (images available for all taxa), while others are easier to achieve (decisions are free from political influence), and participants generally found the metrics useful, although user satisfaction was not specifically assessed by the study and further testing and refinement of the metrics will be required. Two manuscripts were prepared that describe the test implementation of each set of metrics; these were submitted to BioScience in September 2024 where they remain under review as of today (3 Feb 2025). There has been discussion with Stephen, Claire, Mark Watson and Lauren Raz about assessing the whole of WFO using the most recent version of the metrics.

Garnett ST, Christidis L, Conix S, Costello MJ, Zachos FE, Bánki OS, et al. (2020) Principles for creating a single authoritative list of the world's species. *PLoS Biol* 18(7): e3000736.

<https://doi.org/10.1371/journal.pbio.3000736>

Pyle, R.L., Barik, S.K., Christidis, L. et al. Towards a global list of accepted species V. The devil is in the detail. *Org Divers Evol* 21, 657–675 (2021). <https://doi.org/10.1007/s13127-021-00504-0>

A.M. Lien, O. Banki, S.K. Barik, J.S. Buckeridge, L. Christidis, M.M. Cigliano, S. Conix, M.J. Costello, D. Hobern, P.M. Kirk, A. Kroh, N. Montgomery, S. Nikolaeva, T.M. Orrell, R.L. Pyle, L. Raz, K. Thiele, S.A. Thomson, P.P. vanDijk, N. Wambiji, A. Whalen, F.E. Zachos, Z. Zhang, S.T. Garnett (2023). Widespread support for a global species list with a formal governance system, *Proc. Natl. Acad. Sci. U.S.A.* 120 (45) e2306899120, <https://doi.org/10.1073/pnas.2306899120>

13. Review of Action Points from the last meeting

All Action Points were covered in previous discussions during the meeting.

14. Plans for the 24th meeting of Council

The next meeting of WFO Council will be in-person at the Leon Levy Native Plant Preserve on Eleuthera, The Bahamas, 18th-21st February 2025. There should be an option for virtual attendance. The first circular for this will be circulated on the mailing lists soon. As accommodation is limited on the island, attendees are encouraged to register their attendance promptly and to look to make reservations as early as possible. The first circular will give suggestions for transport and accommodation. The Leon Levy preserve has some limited accommodation it can offer.

15. Any Other Business

Raoul Palese reported that Geneva is looking at the future development of their African Plant Database and will be discussing this with the Taxonomic Working Group.

Annex 1

WFO –ACTION ITEMS FROM 23rd COUNCIL MEETING – Virtual October 2024

#	TASKS	WHO?	WHEN?	COMMENTS
1	<p>Presentations on WFO. Take advantage of the meetings we attend to promote the WFO.</p> <p>Presentations to be uploaded to WFO Presentations folder in ownCloud.</p>	All	Standing Item	Recent/next presentations: COP16 in Cali, Colombia, October. Latin American Botanical Congress, Brazilian Botanical Congress November, Colombian Botanical Congress in November
2	<p>Update current signatories. Secretariat to maintain an archive of hard copies of any formal agreements with WFO. List of Consortium members on the WFO website to be updated.</p>	Peter Wyse Jackson	Standing Item	The following have joined the Consortium since the March 2024 meeting: Guanxi Institute of Botany, Pl@ntNet, Herbario Nacional de Bolivia and Cartagena Botanical Garden
3	<p>Update Social Media. Keep updating FaceBook, Twitter, etc with news and current information.</p>	Comms Working Group	Standing Item	Send items for social media to Catherine Martin (Missouri BG)
5	<p>Videos. Links to videos by partner institutions to be included on WFO About Pages.</p>	All	Standing Item	Send videos relevant WFO to Alan Elliott (RBG Edinburgh)
6	<p>Enhance Production Portal with Descriptive Data. Production portal should be enhanced with descriptive data content, as advised by Taxonomic WG/Council, in order to increase the diversity of content and geographic coverage. Send a tweet as content is loaded to Production.</p>	Tony Mast	Standing Item When ready, Tony Mast will touch base with the intermediary contacts of the Content providers for the next digital resources to bring into the WFO Portal	See Gatekeeper report for harvesting details.
7	<p>Create a Harvester administration/operations guide. The development of a Harvester administration/operation guide should be carried out immediately through testing and collaboration.</p>	Tony Mast	Ongoing	New updates should be included. Created documentation for “Name-Matching” process and made code and SQL Stored Procedures available for Geneva in Github (private MBG-CBI repository)
13	<p>Taxonomic Expert Networks (TENs) 1) Encourage proposals of new TENs by contacting potential taxonomic experts and supporting them in the formulation of a TEN.</p>	TEN Manager Alan Elliott	Standing Item	1) TENs approved by Council October 2024: Acanathaceae, Brassicaceae,

#	TASKS	WHO?	WHEN?	COMMENTS
	<p>2) Connect with CoL Brassicaceae experts</p> <p>3) Highlight inactive TENS for consideration of removal</p> <p>4) Connect with leads on family/order taxonomic symposia at IBC for non-TEN groups</p>			<p>Malphigiaceae, Malvaceae, Myrtaceae and Salicaceae</p> <p>2) Brassicaceae TEN proposal received and accepted.</p> <p>3) Hypericaceae TEN flagged as of concern.</p> <p>4) Done, most have expressed firm interest in forming a TEN, some have already submitted proposals</p>
15	<p>Develop markup Tools for a Toolkit. Consolidate the Markup Tools being used; develop them to integrate them into a toolkit.</p> <p>- SANBI has developed Markup tools and are available for others to use. Available from GitHub: github.com/rudivs/SpeciesMarkupAddIn</p>	Technical Working Group	Deferred at St Louis	
18	<p>Save the Dates of next meetings of Council</p>	Peter Wyse Jackson	24 th Meeting, in-person 18-21 February 2025 at Leon Levy Native Plant Preserve, The Bahamas	Post the report of the 22 nd Council Meeting on the WFO website.
33	<p>Resolve insufficient resources to support: Software development staffing.</p>	WFO Council	Ongoing	Missouri is committed to providing Tony Mast's role, but has an issue with software development staffing. Rhakhis software developed by Roger Hyam (RBGE).
48	<p>Make modifications to the Portal</p> <p>18. Assess how to provide page hit statistics by data provider.</p> <p>28. Reveal hidden fields (e.g. Basionym)</p> <p>29. Enable alternate classifications</p>	Technical Working Group	Ongoing	<p>NB Code changes required</p> <p>18. Pending</p> <p>28. Deferred at St. Louis</p> <p>29. Deferred at St. Louis</p>
80	<p>Develop Criteria for judging authorisation of potential Content Providers</p>	Taxonomic Working Group	Pending (revisit with strategic review)	<p>Criteria (scientific credibility, completeness, substantial contribution, currency, etc.), similar to those used for assessing TENS.</p> <p>Another approach is to list what we would not accept.</p>

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81	WFO to give percentages of what data have been uploaded from what is published for each source of Content	Technical Working Group	Pending	Possibly include in a Content stock take and show against source in the Flora page in About Pages. Derive percentages from table of content data records maintained by Tony Mast.
84	Contact Consortium Members to solicit additional Content datasets	WFO Council Co-chairs	Ongoing	
86	Explore formalising WFO's relationship with IPNI with a written agreement covering the nature of the collaboration and the exchange of data	WFO Council	Ongoing	Discussions ongoing with RBG Kew on integration of WCVF and links with IPNI.
93	Conduct stock take of Content and approved providers	WFO Gatekeeper and TEN Manager	Done	Done
106	Explore registration of WFO as an NGO in Switzerland	Nicola Schoenenberger	In progress	Continue planning for WFO to be registered as an Association, for decision at Feb 2025 Council.
108	Review guidance on Data Downloads on the WFO website	Tony Mast, Alan Elliott	Pending	Replace text and downloads on 'Download Data' page of the WFO Portal with instructions on how Content and classification data can be downloaded, e.g. links to Zenodo, ChecklistBank, WFO Plant List, Portal downloads by registered users, etc.
109	Explore use of badges for the kind of object and institution on Portal pages.	Roger Hyam, Tony Mast	Deferred	Badges for kind of object to be deferred until a future rebranding of WFO. This is considered low priority.
111	Update Contributor Guides with latest data process changes after addition of Rhakhis.	Tony Mast, Roger Hyam	Next Council	In progress.
112	Complete harvesting of WCVF Distributions. Restore GeoServer on the Portal.	Tony Mast	Next Council	Completed in May

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114	<p>Consensus classification data development in Rhakhis</p> <p>1) Incorporate updates from TENS</p> <p>2) Update non-TEN groups with data from WCVF, or other published classifications approved by the Taxonomic WG</p> <p>3) Report on deduplication in curation metrics</p>	TEN Manager Alan Elliott		<p>June 24 to Dec 24 data cycle</p> <p>1) 24 Angiosperm TEN. All ferns. All Bryophytes.</p> <p>2) 17 WCVF families updated in this data cycle. 305 updated from WCVF 2.0</p> <p>3) currently stands at around 4900 name pairs in Rhakhis integrity report. Homonyms with the same name string and author string are becoming more prevalent.</p> <p>CoL CB data integrity has WFO with 28500 name pairs. These include all homonyms, no author string.</p>
115	Consider modifications to the Family and Higher order classifications	Taxonomic Working Group	Ongoing	Activity on this is under Task 116
116	Establishing a supra-order classification	Lauren Raz Taxonomic Working Group	Next Council	Supra-order classification to be decided by Taxonomic WG and provided to Catalogue of Life. Higher classification under review, all bar Angiosperms done, to complete by next Council meeting.
117	<p>Building a TEN global community</p> <p>1) Develop an annual WFO TEN online symposium to share lessons learned and promote collaboration between TENS</p> <p>2) Connect with TEN representatives at IBC for feedback in how best to support them and their work</p>	Taxonomic Working Group	Ongoing	<p>1) Seek to run an online symposium. Nadja Korotkova and Caryophyllales to organise the first of these in 2023. [not progressed yet]</p> <p>2) Done</p>
118	IUCN Red List to adopt WFO Plant List as its accepted classification	Peter Wyse Jackson (Missouri and Kew)	Next Council	WFO has requested to the IUCN Governor General to adopt WFO Plant List as the accepted classification used by IUCN for plant groups covered by WFO.

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121	Create a subgroup to develop a Technical Strategic Plan	Technical Working Group	Next Council/Ongoing	Subgroup to create a short document that outlines the systems and people/roles involved in running the WFO now and for each one a “vision” of what will replace it/them either in case of emergency or as part of planned improvements. This plan will address WFO current technical infrastructure only.
122	Create a group to coordinate activities for the XX IBC, Madrid, July 2024	Thomas Borsch, Council Co-chairs and Comm WG	Completed	Completed. Lauren Raz leading on an IBC-linked series of publications on WFO in TAXON
125	Investigate the feasibility of building a resource of dichotomous keys.	Taxonomic and Technical Working Groups	Ongoing	Include in the future developments of software infrastructure
126	Pursue strategic alliances with Xper3, GIFT, etc. for collaborating with identification resources	ID Task Force	Ongoing	To stimulate common efforts in developing a global plant character database, e.g, study the feasibility of using AI to data mine the WFO descriptive content.
127	Develop a collaboration with Pl@ntnet to offer support to users in identifying images using AI image recognition tools	ID Task Force	Ongoing	Increasing the usability of the WFO portal by offering support in identification to users. Pl@ntNet is now a WFO Partner.
128	Establish a task group to undertake the next steps towards integration of WCVP and WFO and report to Council	Council	Next Council meeting	Ongoing
129	Produce promotional materials for WFO to be used at IBC	Comm WG	July 2024	Done: leaflets in Spanish, French and English produced and circulated at IBC
130	Explore recognition of WFO as a Core Biodata Resource by Global Biodata Coalition	Taxonomic WG	Ongoing	Lauren Raz to look into Catalogue of Life experience with this and benefits it brings.

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131	Establish a Geographic Distribution Task Force	Alex Monro	For Feb 2025 meeting of Council	To bring forwards ideas on how best to incorporate geographic distribution data in WFO, starting with WCVF country-level data