

Supplementary Material

We present here few examples of possible WebObs object attributions: 'Domains' and 'Grids' as scientific methods (table S1) or volcano networks (table S2). We present also some additional screenshots examples: home page (Figure S1), the Gazette (Figure S2), a proc main page, (Figure S3), a node (Figure S4), a proc outputs overview (Figure S5), a proc in development (Figure S6), a sefran output during an eruption (Figure S7), and scheduler manager and runs (Figure S8).

Domain	Grid	Superproc
-	Felt Earthquake reports	tremblemaps
	World Seismicity USGS	hypomap
	Lesser Antilles Seismicity	hypomap
	Regional Stripchart	sefran3
Seismology	Global Seismic Network	-
	Soufrière Stripchart	sefran3
	Soufrière Bulletin	mc3
	Soufrière Hypocenters	hypomap
	Pelée Hypocenters	hypomap
	Soufrière EDM	genplot
	Soufrière Extensometry	extenso
	Soufrière GNSS GipsyX	gnss
Deformations	Soufrière GNSS Gamit/Globk	gnss
	Pelée Gamit/Globk	gnss
	Lesser Antilles GNSS	gnss
	Soufrière Tiltmetry	tilt
	Soufrière Gas Fumaroles Analysis	volcgas
	Soufrière Multigas	genplot
Caashamistary	Soufrière Hot Springs Analysis	waters
Geochemistry	Soufrière Hot Springs Station	genplot
	Rain Water Analysis	waters
	Pelée Rivers	waters
	Soufrière Magnetism	genplot
Geophysics	Soufrière Temperature and Flux	genplot
	Soufrière Tide Gauge	genplot
Mataonalaav	Soufrière Weather Station	meteo
Meteorology	Guadeloupe Rain Gauge	genplot
	Pelée Lahars Prêcheur	genplot
Dhanamanalagu	Volcanic Eruptions	-
Phenomenology	Journals	-
	Earthquakes & Tsunamis	-
	WiFi Repeaters	-
Transmissions	UHF/VHF Repeaters	-
	Satellite	-
	Buildings	-
Obcomuctomy	Electricity	-
Observatory	Health & Safety	-
	Vehicles	-

Table S1. Example of domains, grids and associated superproc at the Guadeloupe and Martinique observatories (extract).

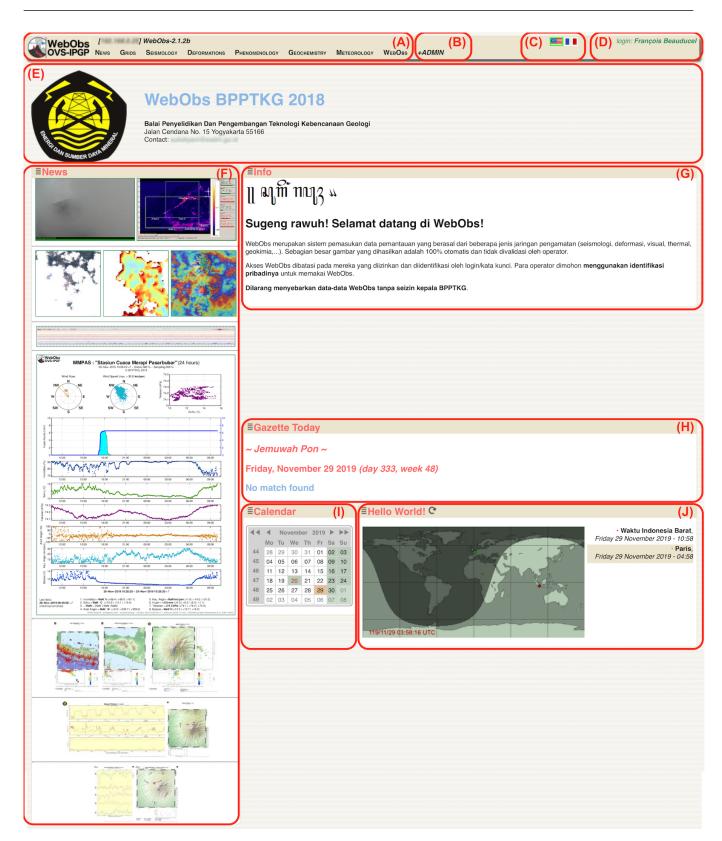


Figure S1. Example of WebObs homepage content: (A) Main menu; (B) Group menu; (C) Internationalization; (D) Authenticated user; (E) Title area with logo and contact; (F) News area with links to internal procs or external graphic pages, (G) Info area with welcome section and data policy; (H) Gazette area; (I) Calendar (linked to the Gazette); (J) Timezone map. (E), (F) and (G) are free MarkDown content (data from BPPTKG/CVGHM).

Domain	Grid	Superproc		
Indonesia	Indonesian Seismicity USGS	hypomap		
Indonesia	Indonesia GPS Networks	-		
Mt Agung	GPS Agung	gnss		
Mt. Agung	Tiltmeter Agung	tilt		
	GPS Gamalama	gnss		
Mt. Gamalama	Seismicity Gamalama	hypomap		
	Helicorders Gamalama	helicorder		
Mt. Kelud	GPS Kelud	gnss		
	Seismic Bulletin Merapi	sefran3		
	Hypocenters Merapi	hypomap		
	Helicorders Merapi	helicorder		
Mt. Merapi	GPS Merapi	gnss		
	Tilt Merapi	tilt		
	Multigas Merapi	genplot		
	Weather Station Merapi	meteo		
Mt. Sinabung	GPS Sinabung	gnss		
wit. Smabulig	Journal Sinabung	-		

Table S2. Example of domains, grids and associated superproc at the Indonesian volcanological observatories (extract).

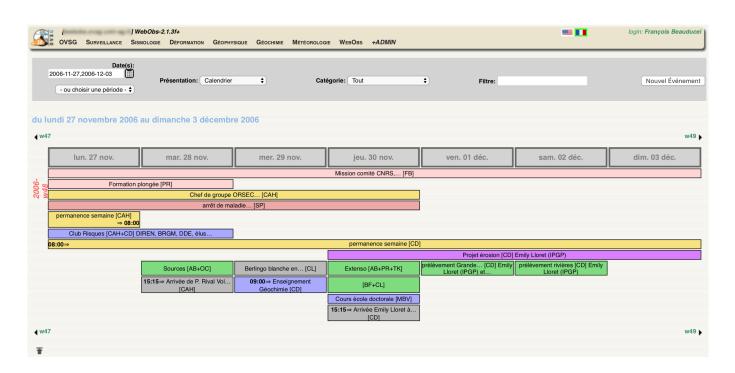


Figure S2. Example of WebObs Gazette calendar display over a week (here week 48 of 2006). Colors correspond to categories of events: staff mission (pink), duty (yellow), leaves of absence (orange), teaching (blue), visitors (violet), field work (green), miscellaneous (gray) (data from OVSG/IPGP).

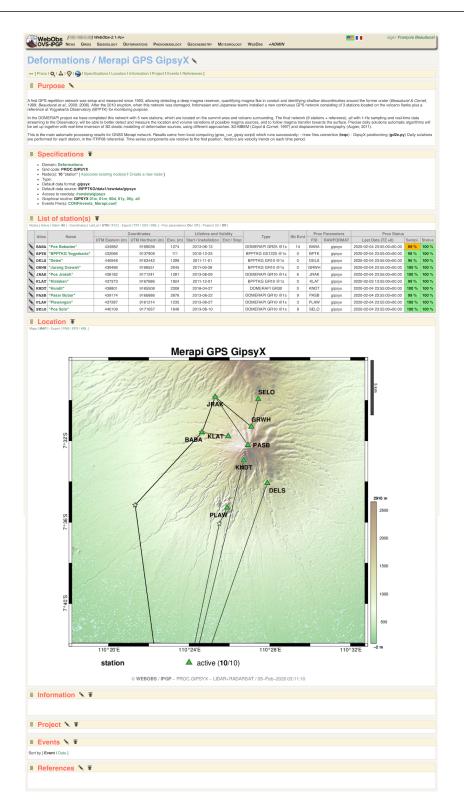


Figure S3. Example of a WebObs proc main page for a group of instrumental stations (here a GPS permanent network): links to creation/association of nodes (administrator level), access to raw data files, graphical routine outputs, a table shows the list of stations, coordinates (here UTM, lat/lon and XYZ available, exportable as TXT, CSV or KML files), data format and status (result from the proc last run), an updated interactive location map showing the transmission links, possible project and dated events, and additional editable text contents allowing general proc description as purpose, information and references (data from IRD/IPGP/VELI/BPPTKG).

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rids	PROC.APPS PROC.GIPSY PROC.GIPSYX VIEW.DOMERA	N	
ype	DOMERAPI GR		
etime	Started on: 2013	3-06-22 / Active	
roc	Parameters	ID: PDCPAS0 FID: PASB	
	Status	Acquisition Delay: 2 days Last status check on 2019-11-28 04:58:19 Sampl: Status: 100% 100%	
	Data		Diagrams Documents MG_M45,JPG
			≣ Project 🔪 著
	Channels	Date Time Date Date <th< td=""><td>Examine the broken GEV71 (Machammad Humi / Rizal) modified 2019-07-02 04.16 🔊 👁 🗅</td></th<>	Examine the broken GEV71 (Machammad Humi / Rizal) modified 2019-07-02 04.16 🔊 👁 🗅
		2013-06-22 00:00 3 Up m U 0 1 1 0 -7.536656 10.44864 2676 0 2015-06-02 00:00 4 orbit - 0 1 1 0 -7.536656 10.44864 2876 0	Make ring connectors at the end of cable.
ation	Date	Type Lat. S (WOS84) Lon. E (WOS84) Alt. (m) Transverse Mercator East (m) North (m)	Events 🔪 🐨
	2013-06-12	7.556658 * 110.446954 * 2676 UTM49 WGS84: 439175 9166886 ♥ ● GPS meas. 07 *32 *11.97 * 110 * 26.9192 * 2676 UTM49 WGS84: 439175 9166886 ♥ ●	Sort by [Event I Date]
		07 * 32 * 11.97 * 110 * 26 * 55.15 *	Re-install the GR10 2016-03-30 11:17 → (Marc PERUZZETTO, François Beauducel, Marco Liuzzo, Marie-Laure Fournasson) 🏷 🗅 🗉
			On site from: 06:00-08:00 local time.
			With porter Pak Surat.
			 reconnect the power cable to batteries, to GEV71.
	12 220 2200		 reconnect antenna and ethernet cables.
	F 11		 GR10 OK, recording data. access and ping not possible from pos Babadan and Jrakah, probably because of routing problem with block 9.*
			 access and ping not possible non pos babatan and stakan, productly because of rousing problem with block s.
	1.000		
			Station check 2016-03-22 05:40 → (Mochammad Husni Rizal) 🍾 🗘 🖸 🕀
			On site from: 05:40-09:00 local time
	100	10 km -	With porter Pak Surat.
	1.1.1.1.1.1.1.1		
	90		 Voltage out from GEV71 (the battery DC adapter): ~200 mV.
	2		Cable and battery condition: OK.
	100		All data is downloaded manually.
	1000		
			 Station checked at BPPTKG 2016-03-23 04:12 → (François Beauducel, Marco Liuzzo, Marie-Laure Fournasson) 🔊 D 🕒
			@ Station check (2016-03-22 05:40)
		2 km	 GR10 is checked at BPPTKG with 10-m cable and new AR10 antenna: everything is OK. GEV71 DC/DC adapter is checked: fuse is KO. Replaced by a new one: works.
	\$2	211 0	 GEVT DUDU adapter is checked: tuse is KO. Heplaced by a new one: works.
	60	x3.0 500 m	200-
	110°E 110	202E 110/40E 1387 m ELI IRD/PGP/STorrel.UV - DEM: ETOPO/NOOA / 29-Jul-2019 04:52:05 Alt = 2676 m (from DEM: 2667 m)	Solar panels on the receiver 2014-10-10 16:18 → (Antoine Laurin, Ghofar Arshab) 🔊 O 🗈
mineler	Type: Wireless		
			Current and a second and a
	2013-06-22 by F	François Beauducel + Pak Wardi + Pak Rejo (monument) François Beauducel + Arief Rahmadi + Pak Sunar (receiver)	
	-		
nation	On the work to M	Aerapi summit. From New Selo, its 2 to 3 hours of climbing (850 m height).	
~ 00		workproventiers a new reason was at a mount of contraring your in neighty.	A structure of solar panels from bpptkg station felt from the roof of the hut directly on the GPS receiver. It was cleaned on the Thursday 16.
	Sensor		It led to inconsistent data from 10/10 to 16/10.
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tures	Receiver	Storage: 8 Gb SD card, Smart clean-up active	• Change network settings 2014-09-12 16:24 -+ (François Beauduce)) 🏷 🖸 🕀
ures	Receiver	Storage: 8 Gb SD card, Smart clean-up active Protected in a waterproof hox (PRO) with packing for the 3 cables (antenna + ethernet + power)	Change network settings 2014-00-12 18:24 → (François Beauduces) N
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Figure S4. Example of WebObs node for an instrumental station (extract of a GPS permanent station): alias; long name; link for configuration edit; associated grids; type; lifetime dates; proc parameters: IDs, status, links to data and graphs, channels calibration file; location (lat/lon, UTM), links to Google Maps and KML; location map; transmission; information; access; features list and description (sensor, receiver, network, antenna, infrastructure, power); photos; diagrams; documents; project; dated events and sub-events with photos. Text in green are links to editable content, all MarkDown syntax (data from IRD/IPGP/VELI/BPPTKG).

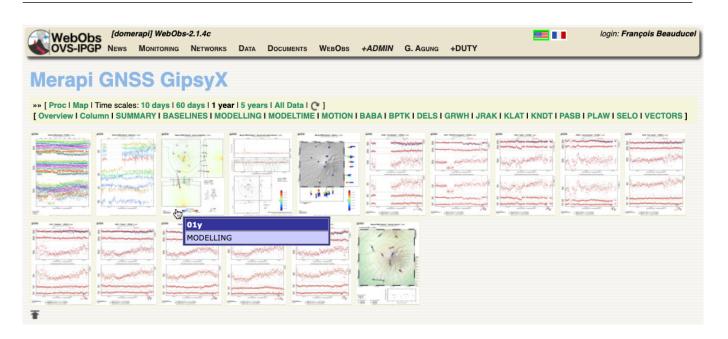


Figure S5. Example of WebObs proc results overview page: links to preset time windows (here 10 days, 60 days, 1 year, 5 years and all data), and available graphs through thumbnail links like summary, baselines, modelling, modeltime, motion, vectors and each station per-node graphs (data from IRD/IPGP/VELI/BPPTKG).

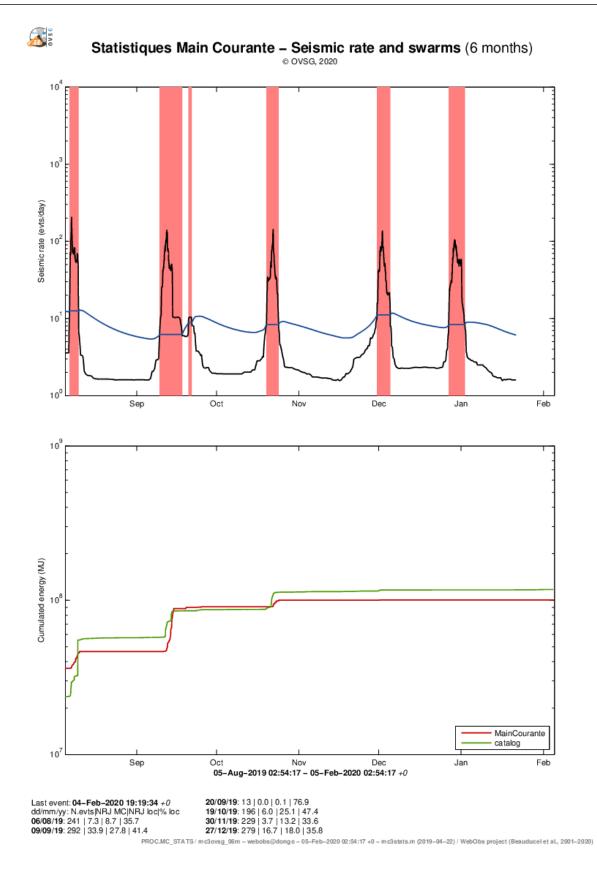


Figure S6. Example of a new superproc under development: (top) instantaneous seismic rate (black line) based on events identified in the seismic bulletin 'Main Courante', the long-term variation of this seismic rate (blue line) which serves as a threshold for seismic swarm detections (red patch), (bottom) cumulative seismic energy from located events magnitude (green line) and a magnitude estimation of all events based on the seismic bulletin duration information (red line). (data from OVSG/IPGP).

Frontiers

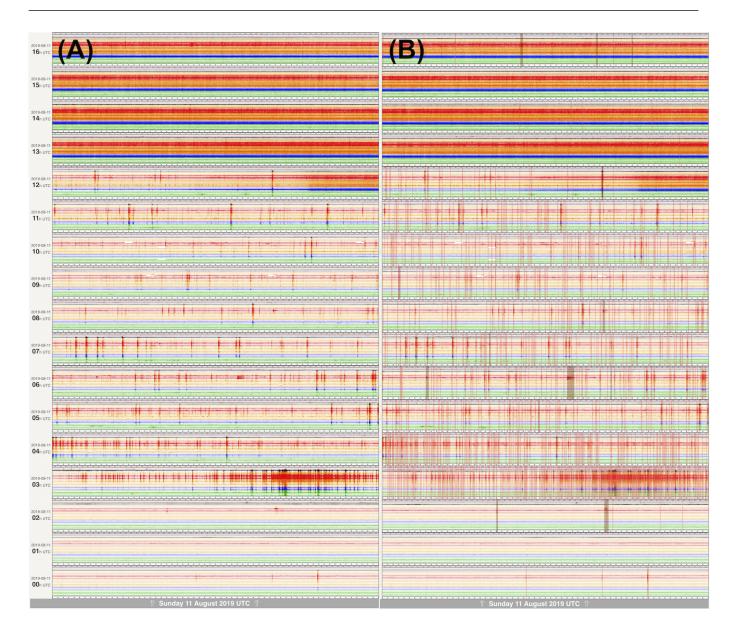


Figure S7. Example of a co-eruptive seismic multichannel stripchart (sefran) at Piton de la Fournaise: 20 stations, vertical component only, colors stand for location (orange on the volcano, red at the summit, other colors outside volcano area), time direction is bottom-up, hourly thumbnails. Seismic crisis began at 03:00 UT, eruptive tremor at 12:50 UT. (A) Seismic waveforms only, (B) Seismic waveforms overlapped by all detected event tags (data from OVPF/IPGP).

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Figure S8. Example of scheduler task planification, accessible from the ADMIN group menu: (A) Scheduler manager showing list of jobs, active or not. (B) Scheduler runs showing last runs status and timeline of execution. Links give access to more detail logs (data from IRD/IPGP/VELI/BPPTKG).