

The Chairman's Report

Rune Engeset, NVE



Introduction

This is the Chairman's report to the 20th General Assembly (GA) of the European Avalanche Warning Services (EAWS), hosted on 12-14 June 2019 by the Norwegian Water Resources and Energy Directorate (NVE) in Oslo, Norway:

www.varsom.no/eaws

This report summarises the activities of EAWS from the Chairman's point of view for the period from June 2017 to June 2019.

Achievements

During the previous two years, activities included

- Asking if members are in compliance with standards. Results are listed in Table 1. I consider [compliance as high](#), but there is room for improvements.
- Asking if members follow recommendations from last GA. Results are listed in Table 2. The recommendation for afternoon publication is pretty much implemented by most members. [However, an English version of the warnings and an easy way to search and find the right warning based on a location or name, should be given high priority to implement in order to meet the needs of the users](#)
- Asking if and how members provide an automated way to retrieve the avalanche bulletin. Results are listed in Table 3, and could be a basis for discussing [if the new www.avalanches.org should display more warning data from our members in real time](#). Many members are doing a great job at promoting EAWS, but [some are not – yet – displaying the EAWS logo and web-link](#)
- Participating in all TAB meetings but one, and the informal meeting on avalanche problems between US, CA and EAWS members in Innsbruck in October 2018. Organised the Tromsø TAB-meeting in collaboration with the UiT/The Arctic University of Norway
- Engaging in several meetings regarding implementation of the changes decided for during the GA in 2017, and issued a communication plan and implementation guidelines for these changes
- Working with LWD Tirol on the new web site for EAWS, in collaboration with the LWD Tirol project manager Norbert Lanzanasto and NVE project member Solveig Kosberg. The [new version of www.avalanches.org](#) should be up running before the GA, letting the members review its content and report possible issues
- Preparing for the GA in Oslo in June 2019. Let us make it a great meeting!

Opportunities

Opportunities of EAWS, as I see it, are

- We are dedicated, motivated and skilled people and services – but we could probably learn even more from each other by introducing an [exchange programme](#) between services
- We have a clear purpose and good products – but we could probably give more value to our users and be more explicit on the limitations of our products and the value of sound decisions, by investing in [better ways of communication](#). We could probably increase consistency and quality in our work by introducing a common [electronic educational platform for training of forecasters and observers](#) in key concepts (e.g. avalanche sizes, stability/sensitivity, distribution,

choice of avalanche problem, etc). This could also be useful for the users, and added as a part of www.avalanches.org

- We are small technical community with close relations – but we could probably make more efforts to [involve US and CA](#) in developing our services together. New knowledge, methods and technologies could be more efficiently developed by getting together and [apply for more R&D projects](#) on behalf of EAWS
- We are professional in risk management – but we could probably improve occupational health by [sharing experiences from the field on close-calls and accidents, as well as how we systematically \(or not\) work with workers' safety](#). This could potentially make work even safer for observers, forecasters and preparedness/rescue personnel in the future
- Our main goal is to avoid accidents and fatalities, and the number of fatalities per year is a proxy for the effectiveness of our services. EAWS members should [keep an updated list of fatal accidents on \[www.avalanches.org\]\(http://www.avalanches.org\)](#), in order to show the scope of the problem and draw attention to EAWS

Challenges

Challenges of EAWS to deal with, as I see it, are issues such as

- [Lack of will to change](#). In a changing world, members should be able to change according to changing users' needs and changing technological opportunities – or new knowledge. Making progress together is important to our users. Even more today than before, as international travelling, business and cooperation are more important than ever. Members should allow key staff to prioritise working for EAWS tasks in the TAB and WG's, and value the benefit of change to end users without worry too much about the costs of change internally. However, the benefit-costs ration is an important consideration, as are funding issues for our members, when making decisions involving major changes
- [Lack of a common language](#). We should use English as a master reference and common language as far as possible. This is even more important today with more members and staff, and more users travelling across language- and country-borders
- [Lazy decision-making may become more popular](#). In the future, users may to a much larger degree be managing avalanche danger by relying on automatically produced advice from digital devices, which combine data from different sources (avalanche danger, weather, terrain, person/group, behaviour, accidents/incidents) to produce use-specific advice. How far into this processing chain should and could our members be involved? What are the implications to avalanche warnings services and other people/organisations delivering avalanche education and awareness?

Nominations

The following nominations (and no other) were received:

- MOU §4.2 Chairperson: [Rune Engeset](#) (NVE, NO) – re-elect
- MOU §4.2 Coordinator: [Thomas Stucki](#) (SLF, CH) – re-elect
- Host GA 2021: [SLF](#), Davos (CH)
- MOU §4.3 Technical Advisory Board:
 1. [Igor Chiambretti](#) (IT) – new
 2. [Norbert Lanza](#) (AT) – new
 3. [Thomas Feistl](#) (GE) – new
 4. [Mark Diggins](#) (UK) – re-elect
 5. [Christoph Mitterer](#) (AT) – re-elect
 6. [Fabiano Monti](#) (IT) – re-elect
 7. [Karsten Müller](#) (NO) – re-elect

8. [Arno Studeregger](#) (AT) – re-elect
 9. [Benjamin Zweifel](#) (CH) – re-elect
- MOU §4.3 Working Groups
 1. [Matrix and scale](#) (Karsten Müller)
 2. [Funding and organisation](#) (Christoph Mitterer)
 3. [Local forecasting](#) (No name)
 4. More WGs may be proposed. TAB and Chairman would like the GA to elect up to 8 members of TAB first, and then add additional WG leaders to TAB in the second step. This implies that TAB may become slightly larger than 8, but will make the voting easier.

Membership

The membership committee received an application for membership from [A LURTE](#) on 26 June 2017. The Membership committee recommends to adopt A LURTE as a new member.

The membership committee and Chairman were also approached by Ukrainian Hydrometeorological Center and the Swedish EPA, showing interest in becoming members.

Documents submitted for the General Assembly

These documents were distributed to the EAWS mailing list (emaws@avalanches.org) on 16 May:

- report_Chair_def.pdf (this report)
- report_TAB_def.pdf (coordinator's report)
- report_WG_1_EN_def.pdf, report_WG_1_FR_def.pdf, report_WG_1_IT_def.pdf, report_WG_1_GE_def.pdf (WG1 report)
- report_WG_2_EN_def.pdf (WG2 report)
- report_WG_3_EN_def.pdf (WG3 report)
- proposal_WG_FUND_def.pdf (proposal for new working group)
- application_ALURTE.pdf
- EAWS_MoU_signed_2017.pdf (our MoU from 2017)

The report from WG1 was translated from English into French, Italian and German, as it included a proposal with reasoning for voting.

Thanks

I thank the coordinator, Thomas Stucki, for excellent work during the last two years. I also thank the TAB members, WG leaders and WG members for their great efforts.

SLF provided translation services for the WG1 report. LWD Tirol managed the e-mail lists, and the old and the new web sites of EAWS. NVE provided funding to an external company for developing the new web pages for www.avalanches.org.

Errors and omissions in this report may be my mistake. Bear with me, I am only a human.

Rune Engeset, Oslo, 7 June 2019

Table 1. Compliance to standards

EAWS MEMBERS Status as per 06.06.2019 Implementation of standards and recommendations (EAWS)									
EAWS member			General Assembly 2017 standards (ref. GA Summary and MoU)						
			Avalanche problems	EAWS matrix	Avalanche sizes	Scale	Pyramid	Regions	Val./responsibility
Andorra	N	SMA-OECC	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Austria	R	LWD Kärnten	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	R	LWD Niederösterreich	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	R	LWD Oberösterreich	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	R	LWD Salzburg	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	R	LWD Steiermark	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	R	LWD Tirol	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Austria	R	LWD Vorarlberg	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Czech Republic	N	HS CR	Yes			Yes	Yes	Yes	Yes
Finland	N	FMI	Yes	Yes	Yes	Yes	Yes	No	Yes
France	N	Météo-France	No	Yes	Yes	Yes	Yes	Yes	Yes
Germany	N	LWD Bayern	Yes	Yes	Yes	Yes	Yes	Yes	Yes
United Kingdom	N	SAIS	Yes	Yes (+ADAM)	Yes	Yes	Yes	Yes	Yes
Iceland	N	IMO	No			Yes	No	Yes	Yes
Italy	R	AINEVA	Yes	Yes*	Partly*	Yes	Yes	Yes	Yes
	N	METEOMONT Carabinieri	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	N	METEOMONT Italian Army	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	O	Alpsolut	Yes	Yes	Yes	Yes	Yes	No	Yes
Norway	N	NVE	Yes	Yes (+ADAM)	Yes	Yes	Yes	Yes	Yes
	O	NGI	Yes			Yes	Yes	No	Yes
Polen	R	GOPR	Yes	Yes	Official: old sizes	Yes	Yes	Yes	Yes
	R	TOPR	Yes	Yes	Official: old sizes	Yes	Yes	No	Yes
Romania	N	ANM	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Slovenia	N	ARSO	Yes	Yes	No	Yes	Yes	Yes	Yes
Slovakia	N	SLP+HZS	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Spain	N	AEMET	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	R	CLA	Yes	Yes	Yes	Yes	Yes	No	Yes
	O	A LURTE (NOT MEMBER)	Yes	No	Yes	Yes	Yes	No	
	R	ICGC	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sweden	N	Naturvårdsverket (NOT MEMBER)	Yes	Partly(+ADAM Test)			Yes	Yes	Yes
Switzerland	N	SLF	Yes	Partly(+ADAM Test)	Yes	Yes	Yes	Yes	Yes
* Type of AWS			Status						
N: National			Yes	It is being used/implemented					
R: Regional			Partly	It is partly being used/implemented					
O: Other/local			No						
Colours: Not reported in 2019									
Not EAWS member									

18 of 29 services reported full compliance, 3 used old sizes, 2 did not use avalanche problems. Members in yellow did not report in 2019, only in 2018. Questions were:

- Are you using the EAWS avalanche problems in your forecast?
- Are you using the EAWS matrix when determining the danger level in your forecast?
- Are you using new (2017 decision) names for the avalanche sizes in your forecast?
- Are you using updated (2017 decision) EAWS danger scale in your forecast?
- Are you using the EAWS information pyramid in your forecast?
- Are your region boundaries clearly specified in your forecasts?
- Is the valid time period clearly specified in your forecasts? Is responsible issuer?

Table 2. Following recommendations

EAWS MEMBERS Status as per 06.06.2019 Implementation of standards and recommendations				GA2017 recommendations		
EAWS member				English warnings	Easy search	Afternoon publication
Andorra	N	SMA-OECC		No	No	No
Austria	R	LWD Kärnten	only google-transl	No	No	Yes
	R	LWD Niederösterreich		No	No	Yes
	R	LWD Oberösterreich		No	No	Yes
	R	LWD Salzburg		Yes	No	Yes
	R	LWD Steiermark		Yes	No	Yes
	R	LWD Tirol		Yes	Yes	Yes
	R	LWD Vorarlberg		Yes	No	Yes
Czech Republic	N	HS CR		No	No	
Finland	N	FMI		Yes	No	No
France	N	Météo-France		No	es (Apps) No (Web)	Yes
Germany	N	LWD Bayern		Yes	No	Yes
United Kingdom	N	SAIS		Yes	Yes	Yes
Iceland	N	IMO		Yes	No	Yes
Italy	R	AINEVA		Yes	No*	Yes
	N	METEOMONT Carabinieri		Yes	Yes	Yes
	N	METEOMONT Italian Army		2019/20	No	Yes
	O	Alpsolut		Yes	Yes	Yes
Norway	N	NVE		Yes	Yes	Yes
	O	NGI		No		No
Polen	R	GOPR		Partly**	No	Yes
	R	TOPR		Not yet	No	Yes
Romania	N	ANM		No	Partly	Yes
Slovenia	N	ARSO		No	No	No
Slovakia	N	SLP+HZS		No	No	No
Spain	N	AEMET		No	Partly	Yes
	R	CLA		No	No	No
	O	A LURTE (NOT MEMBER)		No		No
	R	ICGC		Partly	Yes	Yes
Sweden	N	Naturvårdsverket (NOT MEMBER)		Yes		Yes
Switzerland	N	SLF		Yes	No	Yes

Only 6 services followed all recommendations. In many places, it is still difficult or impossible to search and find the relevant avalanche warning, and to read it in English. Members in yellow did not report in 2019. Questions were:

- Are your forecasts easily available in English?
- Are your forecasts easily available by a location search (search for mountain or place name)?
- Do you publish in the afternoon?

Table 3. Promote EAWS or provide automatic machine-readable warnings

EAWS member			English warnings	Easy search	Afternoon publication	EAWS	1. automat	2. format	3. url	4. valid	5. plan
Andorra	N	SMA-OEEC	No	No	No	No		other xml		43685	
Austria	R	LWD Kärnten	No; only google-transl	No	Yes	Yes		CAAML		00 - 00; can be changed	
	R	LWD Niederösterreich	No	No	Yes	No					
	R	LWD Oberösterreich	No	No	Yes	Yes	No	No	No	No	No
	R	LWD Salzburg	Yes	No	Yes	Yes					
	R	LWD Steiermark	Yes	No	Yes	No					
	R	LWD Tirol	Yes	Yes	Yes	No	Yes	CAAML, json	https://api.avalanche.r	0:00AM - 12:00PM	
R	LWD Vorarlberg	Yes	No	Yes	Yes	Yes	CAAML, XML, RSS	see column T	normally 24 hours		
Czech Republic	N	HS CR	No	No		Yes					
Finland	N	FMI	Yes	No	No	No					
France	N	Météo-France	No	es (Apps) No (Web)	Yes	No	Yes	xml, pdf	france.fr/?fond=produit	D 16-D1 16	
Germany	N	LWD Bayern	Yes	No	Yes	No	Yes	Caaml, xml	.xml; https://www.lawn	release until next release	
United Kingdom	N	SAIS	Yes	Yes	Yes	Yes	Yes	RSS	www.sais.gov.uk/feed/rs	18:00 - 18:00 24hrs	
Iceland	N	IMO	Yes	No	Yes	No					
Italy	R	AINEVA	Yes	No*	Yes	Yes					
	N	METEOMONT Carabinieri	Yes	Yes	Yes	Yes	Yes	XML, JSON	nti.pro/mobile/script.p	14-14	implemented
	N	METEOMONT Italian Army	2019/20	No	Yes	Yes	Yes			14:00 - 14:00 24 h.	
	O	Alpsolut	Yes	Yes	Yes	Yes					
Norway	N	NVE	Yes	Yes	Yes	logo, link	Yes	CAP,XML,JSON	api.nve.no	00-00	
	O	NGI	No		No						
Polen	R	GOPR	Partly**	No	Yes	Yes	Yes	Other XML	jopr.pl/avalanche/xml/daily-bulletin		CAAML - 2019
	R	TOPR	Not yet	No	Yes	Yes					
Romania	N	ANM	No	Partly	Yes	No	No	pdf	http://www.meteorom	20-20	
Slovenia	N	ARSO	No	No	No	Yes URL	Yes	CAAML	/probabase/www/avalan	D1, D2, D3 (00h-24h)	
Slovakia	N	SLP+HZS	No	No	No	logo +link	yes	CAAML	/nls.hzs.sk/?caaml&cro	8:30 - 8:30	
Spain	N	AEMET	No	Partly	Yes	No	Yes	other	on request	rama, Picos de Europa and Sierras de Cordel an	
	R	CLA	No	No	No	No	No			from +0 to +48	
	O	A LURTE (NOT MEMBER)	No		No	Yes					
R	ICGC	Partly	Yes	Yes	Yes	Yes	Yes	XML,JSON	http://www.icgc.cat/bx	00-00	
Sweden	N	Naturvårdsverket (NOT MEMBER)	Yes		Yes						
Switzerland	N	SLF	Yes	No	Yes	Yes	Yes (*)	other (push notification)	-	17-17, 08-17	Improvement
* Type of AWS			Status			1. Do you provide an automated way to retrieve the avalanche bulletin?					
N: National			Yes	It is being used/implemented				yes	2. In which format do you provide the data?		
R: Regional			Partly	It is partly being used/implemented				no	camml	3. Under which URL can the resource be found?	
O: Other/local			No					cap	4. Whats the validity of your forecast/bulletin?		

17 members promoted EAWS (logo and/or web site). Only 13 provides warning on an automated machine-readable end-point. Members in yellow did not report in 2019.

Question was:

- Do you display the EAWS logo and URL on your forecasting web site?
- Other questions (1-5) are listed above in the table