

TO: IGC Delegates 16Feb14

SUBJ: Mar14 IGC Meeting ANDS report

FROM: IGC ANDS Committee

Angel Casado, Bruno Ramseyer, members

Bernald S. Smith, Chairman

FAI & SSA RTCA representative

SSF/SSA EGU co-representative

FAI Airspace and Navigation Expert

OSTIV TSP member

UNOOSA's ICG FAI representative

SUBJ: Mar14 EnvCom report

FROM: Bernald S. Smith

IGC and NAA FAI EnvCom delegate, FAI EnvCom Vice-President

Acronyms in Appendix I

ACTION ITEM - Current GFAC members and the expiry dates of their 3-year terms of office are Ian Strachan (UK-IGC meeting of 2014), Angel Casado (Spain-IGC meeting of 2014), Tim Shirley (Australia-IGC meeting of 2015), Hans Trautenberg (Germany-IGC meeting of 2015) and Marc Ramsey (USA-IGC meeting of 2016). Nominations by ANDS will be presented at your meeting for your consideration for election to fill the expiring terms.

RTCA - Not much changed: We continue with SC-186 (ADS-B), SC159 (GPS),

SC228 (UASs & UAVs) and to a very much lesser extent with other SCs.

It should be noted that many RTCA meetings, especially 186 & 159 include intensive EUROCAE participation. ION and CGSIC meetings also are on the list of meetings attended because of their pertinence to GNSS. I plan to attend their meetings this year in Tampa, FL. SSA's membership in RTCA is being renewed in Mar14. FAI's membership was renewed in Feb14. Each pays \$600. ICAO continues to rely on RTCA documents for worldwide dissemination by actions taken by ICAO. The LightSquared matter looks like it has been put to rest, again; we'll see what they come up with. Spectrum is a big battle - maybe you've read about what Apple is doing! (In 3 words: gobbling it up.)

FYI, see Appendix II for items regarding GPS backup (eLoran lives!), what's going on in Europe with SESAR JU and the potential impact it may have on airports, and allegations re unapproved UAS/UAV systems operating, which if it's happening in the USA, it's likely elsewhere, too.

The current GPS constellation consists of 32 satellites. GLONASS is fully operational w/24 satellites, 3 spares and 1 in test. BeiDou is fully regionally operational. QZSS is initially operational, and Galileo is still a long ways from even initially operational.

FLIGHT RECORDERS - IGC's GFAC evaluate and approve new FRs.

Discussion has continued about PRs and "old" FRs, as to their continued viability re security, etc. SSA and the Polish Aeroclub have newly approved the FlyWithCE Position Recorder as published on

the IGC and GFAC web sites. There are 47 approved FRs. 7 countries

have approved 11 PRs.

FAA/SSA MOU - This was canceled w/the required notice earlier last year. Nothing had been ongoing recently. In my view, not much was achieved.

OSTIV - Publishing of Technical Soaring is ongoing, but severely delayed, with the last issue being 37-2, Apr13.

UNOOSA ICG - I attended the UNOOSA's ICG Nov13 meeting in Dubai, UAE, as FAI's representative, where issues deal with the proliferating number of satellite positioning systems and their hopeful compatibility (lack of interference with each other), and their interchangeability & interoperability. There was a presentation for the first time by the ICG office at ION last year, outlining the work ICG accomplishes. The overall problems of interference and especially jamming remain matters of great concern. LightSquared, which has filed for bankruptcy, has been further turned down, as mentioned above, but may not be finished with its efforts to move forward with proposals to install a ground-based system of high power. My presentation to ICG reported on both the positive

(interoperability/interchangeability) and negative (interference) impacts on airports of having multiple GNSS, also reflecting on my years ago experience in the Middle East. If the many folks who came up to me afterwards was any indication, my presentation was well received, even w/questions asking for recommendations on how to deal with a government airspace authority.

EGU – SSA's SSF Chairman Rich Carlson and I will not attend their meeting in Luxembourg due to it being too close to the SSA Convention's FIRC to accommodate necessary travel. We recommended SSA send someone to their Friday 21Feb14 membership growth meeting.

FAI Environmental Commission - I attended the meeting in Rome, Italy on 08Feb14; the usual small group (France, UK, Italy, Sweden, Germany and me) + an FAI office rep were there. The next EnvCom meeting is Jan15 in Lausanne. Discussion of the newly approved FAI Environment Award ensued, with a solicitation for nominations having been subsequently distributed to all of FAI. The meeting unanimously approved recommending to FAI retention of the Commission instead of replacing it with an expert group. I reported on Shell's work to create a lead-free fuel substitute fully compliant with engines currently needing LL fuel. Sweden reported on a similar fuel from a Swedish firm.

FAI General Conference - I attended it in Kuala Lumpur, Malaysia,

30Sep-06Oct13 as their RTCA and ICG representative, giving reports thereon. NAA's Art Greenfield was awarded the FAI Silver Medal! The demise of FAI's Commission on airspace and navigation systems (CANS) has occurred, interestingly replaced by one acronym NEG (Navigation Expert Group), reflecting the feelings of many of us. In my humble opinion, NEG, of which I'm one, seems essentially of little consequence. The next GC is still scheduled for Thailand in the fall, but in another city than Bangkok due to the unrest there.

I'll have some short personal comments for your meeting on some of the above, and also, reflecting on my retirement as Chairman of ANDS, as announced at your meeting last year.

s/Bernald

- end of report -

Appendix I

ACRONYMS & DEFINITIONS

(a modest list)

ADS-B - Automatic Dependent Surveillance - Broadcast

ANDS - Air Traffic, Navigation and Display Systems

CGSIC - Civil GNSS Service Interface Committee

EGNOS - European Geostationary Navigation Overlay Service

EGU - European Gliding Union

EnvCom - FAI's Environmental Commission

EUROCAE - European Organization for Civil Aviation Equipment

FAA - Federal Aviation Administration

FAI - Federation Aeronautique Internationale

FR - Flight Recorder

GC - General Conference

GFAC - GNSS Flight Recorder Approval Committee

GLONASS - Global Orbiting Navigation Satellite System (Russia)

GNSS - Global Navigation Satellite System

GPS - Global Positioning System (USA)

ICG - International Committee on GNSS (United Nations)

IGC - International Gliding Commission

ION - Institute of Navigation

MOU - Memorandum of Understanding

NAA - National Aeronautic Association

OSTIV - Organization Scientifique et Technique Internationale  
du Val a Voile

PR - Position Recorder

QZSS - Quasi-Zenith Satellite System (Japan)

RTCA - no separate meaning, a private non-profit  
corporation addressing aviation requirements and  
technical concepts to advance the art and science  
of aviation and aviation electronic systems for  
the benefit of the public, with nearly 300  
volunteer organizations, more than 25% of which  
are non-US, from the entire worldwide aviation  
community, functioning as a Federal Advisory  
Committee, to develop consensus-based recommendations on  
contemporary aviation issues, whose documents are most  
often used as the basis of government-issued TSOs

SC - Special Committee or Sporting Code

SSA - Soaring Society of America

SSF - Soaring Safety Foundation

TSP - OSTIV's Training & Safety Panel  
UAS - Unmanned Aerial System  
UAV - Unmanned Aerial Vehicle  
UNOOSA - United Nations Office for Outer Space Affairs

## Appendix II

HOUSE COMMITTEE MOVES TO BLOCK LORAN-C TEARDOWNS Lawmakers overseeing the Coast Guard approved language this week that would stop the agency from dismantling facilities needed for eLoran, a proposed system that has gained wide support as a backup in case GPS signals are jammed, blocked, spoofed, or otherwise rendered unusable.

(more): <<http://www.insidegnss.com/node/3913>>

## MOVING TOWARDS A SINGLE EUROPEAN SKY

Woodrow Bellamy III

Europe features one of the most congested and complex airspaces in the world, with 28 different major airspace navigation service providers managing 26,000 flights per day. The EU is trying to ease that congestion with its Single European Sky ATM Research (SESAR) project, which is now entering the deployment phase.

SESAR shares some similarities with the NextGen project in play in the U.S., but the overarching goal is much different. According to a recent report by the European People's Party (EPP) group, one of the main goals for SESAR is reducing the number of zones of major Air Traffic Control (ATC) centers from 29 to nine, so that aircraft can fly more direct routes, instead of constantly changing centers even on short haul routes.

(more):

[http://www.aviationtoday.com/av/topstories/Moving-Towards-a-Single-European-Sky\\_81268.html](http://www.aviationtoday.com/av/topstories/Moving-Towards-a-Single-European-Sky_81268.html)

## UAVS FLY DESPITE THE FAA'S PROHIBITION

Bloomberg News (2/14) reports that drones flown for a business purpose are prohibited in the U.S., but that hasn't stopped an invasion of flights far beyond the policing ability of the Federal Aviation Administration, which since 2007 hasn't permitted commercial drones in the U.S. while it labors to write rules to allow them.

According to the article, some businesses flying drones make little attempt to hide what they're doing. For instance, a Freely drone shot footage for a documentary about the U.S. Civil War battle at Gettysburg, Pennsylvania, that aired on most Public Broadcasting Service stations in the U.S. in November, the

filmmaker, Jake Boritt, said in an interview. Furthermore, NASA's Aviation Safety Reporting System includes several instances where pilots reported close calls

with UAVs. Ben Gielow, general counsel to the Association for Unmanned Vehicle Systems International, said the group is "concerned" that it will be more difficult to regulate the industry the longer the FAA takes to establish its rules.