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| **Radiocommunication Study Groups** |  |
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| **19 May 2023** |
| **English only** |
| Annex 12 to Working Party 5A Chairman’s Report  |
| PRELIMINARY DRAFT REVISION OF RESOLUTION ITU-R 55-3 |
| ITU-R studies of disaster prediction, detection, mitigation and relief |

(2007-2012-2015-2019)

The ITU Radiocommunication Assembly,

considering

*a)* the importance of radiocommunication systems in early warning and alerting for disaster management as well as disaster prevention, mitigation and relief;

*b)* that ITU‑R study groups play an important role in disaster management, particularly in the prediction, alerting, detection, mitigation and relief activities necessary to survive the event and to minimize the loss of life and property;

*c)* that each ITU‑R study group brings expertise to the complex mechanisms required to provide relief for the affected area;

*d)* that it is vital for the radiocommunications systems used for disaster communications to have access to the necessary radio spectrum in order to effectively predict, detect, alert, mitigate and relieve disaster event situations,

noting

*a)* Resolution **34 (Rev. Kigali, 2022)** of the World Telecommunication Development Conference, on the role of telecommunications/information and communication technologies in disaster preparedness, early warning, rescue, mitigation, relief and response;

*b)* § 91 c) of the Tunis Agenda of the World Summit on the Information Society (WSIS), which states: “Working expeditiously towards the establishment of standards-based monitoring and worldwide early-warning systems linked to national and regional networks and facilitating emergency disaster response all over the world, particularly in high-risk regions”;
*[Editor’s note: To be updated based on the latest WSIS.]*

*c)* Resolution **136 (Rev. Bucharest, 2022)** of the Plenipotentiary Conference, on the use of telecommunications/information and communication technologies for humanitarian assistance and for monitoring and management in emergency and disaster situations, including health-related emergencies, for early warning, prevention, mitigation and relief ;*[Editor’s note: Moved from ‘recognizings’ and deleted repetition of the ‘instructs’ from the Resolution below.]*

*d)* the related ITU-R Recommendations and reports listed in Annex 1 of this Resolution,

[Editor’s Note: List below moved to Annex 1]

taking into account

*a)* Resolution **646 (Rev.WRC-19)** on Public Protection and Disaster Relief;

*b)* Resolution **647 (Rev.WRC-19)** on radiocommunication aspects, including spectrum-management guidelines, for early warning, disaster prediction, detection, mitigation and relief operations relating to emergencies and disasters;

*c)* other relevant resolutions of world radiocommunication conferences,,

emphasizing

that ITU‑R study groups have an important role in addressing disaster management through their technical and operational studies and through Recommendations that support disaster prediction, detection, mitigation and response activities, which are critical for minimizing loss of life and property and for providing relief to disaster-affected areas,

recognizing

*a)* the importance of the effective use of the radio-frequency spectrum for radiocommunications in disaster prediction, detection, alerting, mitigation and relief; *[Editor’s note: moved from ‘resolves’ intro below.]*

*b)* that disaster management in the field of radiocommunications comprises the following, equally important, aspects:

1) early warning and prevention, through:

– disaster prediction, including the acquisition and processing of data concerning the probability of future disaster occurrence, location and duration;

– disaster detection, including the detailed analysis of the topical likelihood and severity of a disaster event;

2) alerting the public and the relevant authorities;

3) disaster mitigation, including the rapid promulgation of imminent disaster information and corresponding alerts to disaster relief agencies;

4) post-disaster relief radiocommunications, including the provision of *in situ* terrestrial and satellite communication systems to aid in securing and stabilizing life and property in the affected area,

resolves

 *[Editor’s note: moved to ‘recognizings’ above.]*1)– that the concerned ITU‑R study groups undertake studies and develop Recommendations and reports, as necessary, related to the management of radiocommunications in disaster prediction, detection, alerting, mitigation, and relief;

2) that the concerned ITU-R study groups collaborate and cooperate with the other two ITU Sectors, the General Secretariat of the ITU and with organizations external to the Union;

3)– that the relevant ITU‑R study groups continue studies on new emerging technologies that could support disaster prediction, alerting, detection, mitigation, and relief,

invites the study groups

to take into consideration the scope of ongoing studies/activities outlined in the ITU‑R webpage on [Emergency Radiocommunications](http://www.itu.int/net/ITU-R/index.asp?category=information&rlink=emergency&lang=en)[[1]](#footnote-1)1 and information provided by the Bureau on related activities of the other two Sectors and the General Secretariat, in the development of their work programmes in order to avoid duplication of effort.

Annex 1

[Editor’s note: Moved from main body and reorganized w/recommendations first, then reports, and in alphabetical and sequential order. Done w/o tracking the moves, just tracking the changes.]

List of related ITU-R Recommendations and Reports

– Recommendation ITU-R [BO.1774](https://www.itu.int/rec/R-REC-BO.1774/en)/BT.1774, “Use of satellite and broadcast infrastructures for public warning, disaster mitigation and relief”

*–* Recommendation ITU‑R BS.2107, “Use of International Radio for Disaster Relief (IRDR) frequencies for emergency broadcasts in the High Frequency (HF) bands”

– Recommendation ITU‑R F.1105, “Fixed wireless systems for disaster mitigation and relief operations"

– Recommendation ITU-R M.1042, “Disaster communications in the amateur and amateur-satellite services”

– Recommendation ITU-R M.1637, “Global cross-border circulation of radiocommunication equipment in emergency and disaster relief situations”

– Recommendation ITU-R M.1826, “Harmonized frequency channel plan for broadband public protection and disaster relief operations at 4 940-4 990 MHz in Regions 2 and 3”

– Recommendation ITU‑R M.1854, “Use of mobile-satellite service in disaster response and relief”

– Recommendation ITU-R M.2009, “Radio interface standards for use by public protection and disaster relief operations in accordance with Resolution **646 (Rev.WRC‑15)**”

– Recommendation ITU-R M.2015 “Frequency arrangements for public protection and disaster relief radiocommunication systems in accordance with Resolution **646 (Rev.WRC‑19)**”

– Recommendation ITU‑R S.1001, “Use of systems in the fixed-satellite service in the event of natural disasters and similar emergencies for warning and relief operations”

*–* Report ITU‑R BT.2299, “Broadcasting for public warning, disaster mitigation and relief”

– Report ITU‑R F.2061, “HF fixed radiocommunications systems”

- Report ITU-R F.2087, “Requirements for high frequency (HF) radiocommunication systems in the fixed service”

– Report ITU-R M.2085, “Role of the amateur and amateur-satellite services in support of disaster mitigation and relief”

– Report ITU‑R M.2149, “Use and examples of mobile-satellite service systems for relief operation in the event of natural disasters and similar emergencies”

– Report ITU-R M.2291, “The use of International Mobile Telecommunications for broadband public protection and disaster relief applications”

– Report ITU-R M.2377, “Radiocommunication objectives and requirements for Public Protection and Disaster Relief (PPDR)”

– Report ITU-R M.2415, “Spectrum needs for Public Protection and Disaster Relief (PPDR)”

– Report ITU-R M.2441, “Emerging usage of the terrestrial component of International Mobile Telecommunication (IMT)

– Report ITU‑R S.2151, "Use and examples of systems in the fixed-satellite service in the event of natural disasters and similar emergencies for warning and relief operations”

1. 1 <https://www.itu.int/en/ITU-R/information/Pages/emergency.aspx>. [↑](#footnote-ref-1)