

JAPAN SITUATION REPORTS

Earthquake Tsunami Nuclear Disasters

What's happening with rescue, relief, recovery
Alister William Macintyre research notes
3/23/2011 (last updated)

Version 1.2

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INTRODUCTION (1 MAR 23)

Here are situation reports on Japan disasters stemming from 2011 March 11 humongous earthquake, tsunami, nuclear consequences. I am behind on digesting the tsunami of information which is available. In time I intend to share newer edition of this, same places I shared older edition.

People who trace my links, to where I got these situation reports from, can probably find more recent editions from the same people.

When I cut & paste into Facebook notes, it loses lots of hyperlinks, so ask me for copy of the actual doc I am maintaining these notes in. I periodically upload to Linked In / my profile / my files / Japan folder, and Haiti Rewired Current Events.

Over time, I have split my Japan notes, and now have them in the following documents:

- EOJ = initial naming convention for some of my Earthquake Japan documents, to distinguish them from Haiti notes.
- EOJ Japan Overview = non-nuclear focus ... earthquake and tsunami recovery¹
- EOJ SitReps = Japan Situation Reports
- EOJ Nuclear News = make sense of what's going on with the nuclear power plants
- EOJ Nuclear Time Line = visualize progression of events and trends, to help make sense without the distortion of the many actors with an agenda
- Map Directory = directory of map sources relevant to disasters in Haiti and Japan and other places, also Middle Eastern Democracy Movements
- I have also downloaded some OFFICIAL documents, named them with a mixture of EOJ, what they are about (e.g. Map), date vintage and organizational source.

¹ Info on Mapping sources got moved into Maps Directory document so in one place are where to find Maps about Haiti, Japan, other disasters, and also regarding Democracy seeking a foothold in the Middle East.

Version sharing (1 Mar 23)

I have shared some of this info with:

- My Facebook wall (I am Alister Wm Macintyre there)
- My Linked In Profile / files (I am Al Macintyre there) Japan folder
- Haiti Rewired group = Current Events
- Japanese Resilience (I am user AlMac99)²
- E-mail to some contacts (Macwheel99 is a play on my surname)

After sharing, I increment version # to make it easy for people to see which latest version in later uploads.

Document structure (1 Mar 20)

Topic sub-titles end in a date signifying when that info last updated, so by viewing table of contents, we see where most recent input to these research notes, especially aiding people with copy of an earlier version. Digit 1 in front of month means 2011..

Version numbers are incremented, with this document periodically uploaded various places for convenience of other people who can then pick and choose which of my research efforts they wish to download.

Users of my research hold Alister Wm. Macintyre harmless, and also the places I upload my research to, and agree that my copyright is reserved and that the information is available for the intended purpose of helping in the recovery of Haiti. Some of my research content is direct quotes from other sources. I try to give credit every time I do this.

SITUATION REPORTS (1 MAR 23)

Situation Reports: many of the other reports, linked to in this section, are like fact sheets, given all the info shared, known as of the time the reports were issued.

- Here is info from Gov of Japan <http://www.kantei.go.jp/foreign/index-e.html> in English.
- Here are IAEA updates on evolving situation in Japan. <http://www.iaea.org/newscenter/news/tsunamiupdate01.html>
- Here are recent radiation readings http://eq.wide.ad.jp/index_en.html in English, with comparison of what is normal daily life.
- Here is WHO info on health risks associated with various levels of radiation, with some FAQ on Japan situation. <http://www.who.int/hac/crises/jpn/faqs/en/index.html>

² <http://japan.resiliencesystem.org/nuclear-engineering-issues>

- Here are WHO situation reports.
http://www.wpro.who.int/sites/eha/disasters/2011/jpn_earthquake/list.htm

OCHA = UN agency in charge of coordination of humanitarian relief. Their Relief Web hosts regular updates from many humanitarian efforts at <http://www.reliefweb.int/rw/dbc.nsf> = main page, from which you can navigate to info on the crisis of interest to you ... Haiti, Pakistan, New Zealand, Japan, wherever. Notice upper right corner of OCHA Relief Web main page on the Japan 2011 March earthquake and tsunami.

<http://www.reliefweb.int/rw/dbc.nsf/doc108?OpenForm&rc=3&emid=EQ-2011-000028-JPN>

You can subscribe to such reports via e-mail, RSS news reader (I use Google Reader), and you can also bookmark key pages for future reference

Many of the major players, in humanitarian aid, are issuing updates. Typically they share info about the original disaster(s), what that group is doing to help, in a summary format, where each update repeats much of the same info we saw in earlier updates from them. It can often be unclear how much of the recovery aid in the reports are attributed to an aggregate of many groups vs. the one providing the individual report.

MARCH 11 SITUATION REPORTS (1 MAR 23)

Situation Reports on Japan issued as of what was known **March 11**

- [Global Facility for Disaster Reduction and Recovery \(GFDRR\)](#) March 11 [summary link](#)³ to 2 page [detail PDF](#),⁴ with info on the earthquake, tsunami (Japan and Pacific neighbors – showing times arrival with whatever wave height), damage, response so far, and more acronyms. I downloaded a copy of this for future reference, labeling it:
 - EOJ 2011 March 11 GFDRR
- Red Cross [Summary link](#)⁵ to informational [PDF](#)⁶ which we probably can also download from somewhere on Red Cross home web site. This bulletin # 1 shares info known on March 11.

³ <http://www.reliefweb.int/rw/rwb.nsf/db900sid/MUMA-8EX4VM?OpenDocument&rc=3&cc=jpn> from OCHA Relief Web

⁴ [http://www.reliefweb.int/rw/rwb.nsf/db900sid/MUMA-8EX4VM/\\$File/full_report.pdf](http://www.reliefweb.int/rw/rwb.nsf/db900sid/MUMA-8EX4VM/$File/full_report.pdf) from OCHA Relief Web

⁵ <http://www.reliefweb.int/rw/rwb.nsf/db900sid/EDIS-8EULHJ?OpenDocument&rc=3&cc=jpn> from OCHA Relief Web

⁶ [http://www.reliefweb.int/rw/RWFiles2011.nsf/FilesByRWDocUnidFilename/EDIS-8EULHJ-full_report.pdf/\\$File/full_report.pdf](http://www.reliefweb.int/rw/RWFiles2011.nsf/FilesByRWDocUnidFilename/EDIS-8EULHJ-full_report.pdf/$File/full_report.pdf) from OCHA Relief Web

- [World Health Organization \(WHO\)](#) summary [link](#)⁷ to [detail](#) PDF.⁸ Statistics, critical infrastructure, times tsunami vs. other nations. Info known March 11. On [WHO home site](#)⁹ note [Sitrep 1 - 11 March 2011](#).

MARCH 12 SITUATION REPORTS (1 MAR 23)

Situation Reports on Japan issued as of what was known **March 12**

- [Center for Excellence in Disaster Management and Humanitarian Assistance](#)
 - March 12 [summary](#) [link](#)¹⁰ to [detail](#) PDF¹¹ with statistics, key concerns, nuclear situation.¹² **This is a great situation report.**¹³ I downloaded a copy of this report for future reference, labeling it:
 - EOJ 2011 March 12 Disaster Management
 - EOJ = AI Mac documents on Earthquake Japan
- Here¹⁴ is OCHA¹⁵ [summary](#) # 1 dated 2011 March 12. It links to 3 page [PDF](#).¹⁶
- [United States Agency for International Development \(USAID\)](#) summary [link](#)¹⁷ to 2 page informational [PDF](#).¹⁸ Includes Japan reality, Tsunami across Pacific, USAID actions. Info known as of March 12..
- On [WHO home site](#)¹⁹ note [Sitrep 2 - 12 March 2011](#) and [Sitrep 3 - 12 March 2011 \(1900hrs\)](#).

⁷ <http://www.reliefweb.int/rw/rwb.nsf/db900sid/EGUA-8EUQK9?OpenDocument&rc=3&cc=jpn> from OCHA Relief Web

⁸ [http://www.reliefweb.int/rw/RWFiles2011.nsf/FilesByRWDocUnidFilename/EGUA-8EUQK9-full_report.pdf/\\$File/full_report.pdf](http://www.reliefweb.int/rw/RWFiles2011.nsf/FilesByRWDocUnidFilename/EGUA-8EUQK9-full_report.pdf/$File/full_report.pdf) from OCHA Relief Web

⁹ http://www.wpro.who.int/sites/cha/disasters/2011/jpn_earthquake/list.htm

¹⁰ <http://www.reliefweb.int/rw/rwb.nsf/db900sid/MCOI-8EWC4W?OpenDocument&rc=3&cc=jpn> from OCHA Relief Web

¹¹ [http://www.reliefweb.int/rw/rwb.nsf/db900sid/MCOI-8EWC4W/\\$File/full_report.pdf](http://www.reliefweb.int/rw/rwb.nsf/db900sid/MCOI-8EWC4W/$File/full_report.pdf) from OCHA Relief Web

¹² Apparently they had an earlier installment. This one has info in red which has been added since prior.

¹³ I am wondering where this outfit was in the Haiti relief, whose performance is the exact opposite of excellence.

¹⁴ <http://www.reliefweb.int/rw/rwb.nsf/db900sid/KHII-8EVHXC?OpenDocument&rc=3&cc=jpn> from OCHA Relief Web

¹⁵ OCHA = UN agency in charge of coordination of humanitarian relief.

¹⁶ [http://www.reliefweb.int/rw/RWFiles2011.nsf/FilesByRWDocUnidFilename/KHII-8EVHXC-full_report.pdf/\\$File/full_report.pdf](http://www.reliefweb.int/rw/RWFiles2011.nsf/FilesByRWDocUnidFilename/KHII-8EVHXC-full_report.pdf/$File/full_report.pdf) from OCHA Relief Web

¹⁷ <http://www.reliefweb.int/rw/rwb.nsf/db900sid/MINE-8EVN9N?OpenDocument&rc=3&cc=jpn> from OCHA Relief Web

¹⁸ [http://www.reliefweb.int/rw/RWFiles2011.nsf/FilesByRWDocUnidFilename/MINE-8EVN9N-full_report.pdf/\\$File/full_report.pdf](http://www.reliefweb.int/rw/RWFiles2011.nsf/FilesByRWDocUnidFilename/MINE-8EVN9N-full_report.pdf/$File/full_report.pdf) from OCHA Relief Web.

¹⁹ http://www.wpro.who.int/sites/cha/disasters/2011/jpn_earthquake/list.htm

MARCH 13 SITUATION REPORTS (1 MAR 23)

Situation Reports on Japan issued as of what was known **March 13**

- [Association of Medical Doctors of Asia \(AMDA\)](#) March 13 Emergency Bulletin²⁰ # 2
- Here²¹ is OCHA²² [summary](#) # 2 dated 2011 March 13. It links to this [PDF](#).²³
- 2011 March 13 [United States Agency for International Development \(USAID\)](#) has [summary](#) link²⁴ to their 2 page fact sheet # 3 [detail](#) PDF,²⁵ which I downloaded for future reference, using title “EOJ 2011 March 13 USAID 3” because the OCHA links generally get broken after a while. This PDF has statistics on the damage and death toll known so far, nuclear situation, contacts between US and Japanese governments, what’s doing with US Navy, US aid money budgeting.
- On [WHO home site](#)²⁶ note [Sitrep 4 - 13 March 2011](#).

MARCH 14 SITUATION REPORTS (1 MAR 23)

Situation Reports on Japan issued as of what was known **March 14**

- [Center for Excellence in Disaster Management and Humanitarian Assistance](#)
 - March 14 summary link²⁷ to detail 15 page PDF,²⁸ which I downloaded, naming as
 - EOJ 2011 March 14 Disaster Management²⁹
- Here³⁰ is OCHA³¹ [summary](#) # 3 dated 2011 March 14. It links to 4 page [PDF](#).³²

²⁰ <http://www.reliefweb.int/rw/rwb.nsf/db900SID/KKAA-8EY8HG?OpenDocument> OCHA Relief Web

²¹ <http://www.reliefweb.int/rw/rwb.nsf/db900sid/MCOI-8EWGS7?OpenDocument&rc=3&cc=jpn> from OCHA Relief Web

²² OCHA = UN agency in charge of coordination of humanitarian relief.

²³ [http://www.reliefweb.int/rw/rwb.nsf/db900sid/MCOI-8EWGS7/\\$File/full_report.pdf](http://www.reliefweb.int/rw/rwb.nsf/db900sid/MCOI-8EWGS7/$File/full_report.pdf) from OCHA Relief Web

²⁴ <http://www.reliefweb.int/rw/rwb.nsf/db900sid/MUMA-8EX2YB?OpenDocument&rc=3&cc=jpn> from OCHA Relief Web

²⁵ [http://www.reliefweb.int/rw/rwb.nsf/db900sid/MUMA-8EX2YB/\\$File/full_report.pdf](http://www.reliefweb.int/rw/rwb.nsf/db900sid/MUMA-8EX2YB/$File/full_report.pdf) from OCHA Relief Web

²⁶ http://www.wpro.who.int/sites/cha/disasters/2011/jpn_earthquake/list.htm

²⁷ <http://www.reliefweb.int/rw/rwb.nsf/db900sid/MUMA-8EY5T2?OpenDocument&rc=3&cc=jpn> OCHA Relief Web

²⁸ [http://www.reliefweb.int/rw/rwb.nsf/db900sid/MUMA-8EY5T2/\\$File/full_report.pdf](http://www.reliefweb.int/rw/rwb.nsf/db900sid/MUMA-8EY5T2/$File/full_report.pdf) OCHA Relief Web

²⁹ Same quality as before, with latest new info in red italics.

³⁰ <http://www.reliefweb.int/rw/rwb.nsf/db900SID/MCOI-8EXGJH?OpenDocument&clickid=headlines> from OCHA Relief Web

³¹ OCHA = UN agency in charge of coordination of humanitarian relief.

³² [http://www.reliefweb.int/rw/rwb.nsf/db900sid/MCOI-8EXGJH/\\$File/full_report.pdf](http://www.reliefweb.int/rw/rwb.nsf/db900sid/MCOI-8EXGJH/$File/full_report.pdf) from OCHA Relief Web

- I downloaded a copy of this report, labeling it
 - Sitrep 2011 March 14 OCHA 3 EOJ
 - Sitrep = Situation Report
 - OCHA = The UN agency in charge of coordinating disaster relief
 - EOJ = Al Mac documents on Earthquake Japan
- [United States Agency for International Development \(USAID\)](#) summary link³³ to their 3 page fact sheet # 4 PDF³⁴ on situation in Japan. Overall Statistics, aftershocks, some nuclear info, sample USA actions.
- Here is March 14 [United Nations Office for the Coordination of Humanitarian Affairs \(OCHA\)](#)³⁵ summary link³⁶ to detail PDF³⁷ about United Nations Disaster Assessment and Coordination (UNDAC) into Japan. This is not the normal UNDAC deployment as the Government of Japan has a very strong disaster preparedness and response mechanism in place and is coordinating the international response effort. The Ministry of Foreign Affairs has requested UNDAC assist the response effort by disseminating accurate and timely information to the international community on the emergency and ongoing Government response. It will also assist the Government in providing advice on incoming international relief goods and services with the aim of limiting unsolicited contributions.
 - Let's hope one outcome of this is an improved quality of information on the nuclear situation, from primary sources.
- On [WHO home site](#)³⁸ note [Sitrep 5 - 14 March 2011](#).

MARCH 15 SITUATION REPORTS (1 MAR 23)

Situation Reports on Japan issued as of what was known **March 15**

- [Center for Excellence in Disaster Management and Humanitarian Assistance](#)
 - March 15 summary link³⁹ to 19 page detail PDF,⁴⁰ which I downloaded, naming as
 - EOJ 2011 March 15 Disaster Management⁴¹

³³ <http://www.reliefweb.int/rw/rwb.nsf/db900sid/MUMA-8EY25G?OpenDocument&rc=3&cc=jpn> from OCHA Relief Web

³⁴ [http://www.reliefweb.int/rw/rwb.nsf/db900sid/MUMA-8EY25G/\\$File/full_report.pdf](http://www.reliefweb.int/rw/rwb.nsf/db900sid/MUMA-8EY25G/$File/full_report.pdf) from OCHA Relief Web

³⁵ OCHA is UN agency tasked with coordination of recovery efforts after any disaster.

³⁶ <http://www.reliefweb.int/rw/rwb.nsf/db900sid/MCOI-8EXJN4?OpenDocument&rc=3&cc=jpn> from OCHA Relief Web

³⁷ [http://www.reliefweb.int/rw/rwb.nsf/db900sid/MCOI-8EXJN4/\\$File/full_report.pdf](http://www.reliefweb.int/rw/rwb.nsf/db900sid/MCOI-8EXJN4/$File/full_report.pdf) from OCHA Relief Web

³⁸ http://www.wpro.who.int/sites/cha/disasters/2011/jpn_earthquake/list.htm

³⁹ <http://www.reliefweb.int/rw/rwb.nsf/db900sid/KKAA-8EZ59T?OpenDocument&rc=3&cc=jpn> OCHA Relief Web

⁴⁰ [http://www.reliefweb.int/rw/rwb.nsf/db900sid/KKAA-8EZ59T/\\$File/full_report.pdf](http://www.reliefweb.int/rw/rwb.nsf/db900sid/KKAA-8EZ59T/$File/full_report.pdf) OCHA Relief Web

⁴¹ Same quality as before, with latest new info in red italics.

- [Global Facility for Disaster Reduction and Recovery \(GFDRR\)](#) and World Bank March 15 summary link⁴² to 4 page PDF⁴³ [Japan Earthquake and Tsunami: Situation Report #3](#) which includes overall statistics to people and property, nuclear summary, financial implications
- Here⁴⁴ is OCHA⁴⁵ situation report # 4 dated 2011 March 15 via 4 page PDF.⁴⁶ It talks about areas of Japan still inaccessible for rescue workers, the dire situation of victims of earthquake and tsunami, and some nuclear updates.
- On [WHO home site](#)⁴⁷ note [Sitrep 6 - 15 March 2011](#).

MARCH 16 SITUATION REPORTS (1 MAR 23)

Situation Reports on Japan issued as of what was known **March 16**

- The [Government of Japan](#) shares summary link⁴⁸ to 12 page situation report PDF⁴⁹ on what has happened to industry, other than the nuclear. [Japan: Overview of Damage Situation and METI Measures as of March 16 at 12:00 a.m.](#) Note this is now 1 week after the disaster, and recovery is moving swiftly. By comparison, similar recovery took MONTHS for Haiti. I copied this with name: **EOJ Economy 2011 Mar 16 METI**
 - Operation has been suspended at six **oil refineries**: JX Sendai, JX Kashima, Cosmo Chiba, Kyokutou, TonenGeneral Kawasaki, and JX Negishi
 - Oil and LP gas reserve storage facilities
 - Hokkaido Joint Oil Stockpiling base and Tomakomai base: No anomalies have been found.
 - Mutsu Ogawara base and Akita base: A power outage continues but no anomalies have been found.
 - Kuji base: Although there have been news reports that an oil tank was washed away at the stockpiling base, METI has confirmed that this was a bottom water drain tank and not an oil tank (oil tanks are buried underground and undamaged).
 - Kamisu base: Power has resumed. No anomalies have been found.
 - LP gas wholesale facilities

⁴² <http://www.reliefweb.int/rw/rwb.nsf/db900sid/KKAA-8EZ7XF?OpenDocument&rc=3&cc=jpn> from OCHA Relief Web

⁴³ [http://www.reliefweb.int/rw/rwb.nsf/db900sid/KKAA-8EZ7XF/\\$File/full_report.pdf](http://www.reliefweb.int/rw/rwb.nsf/db900sid/KKAA-8EZ7XF/$File/full_report.pdf) from OCHA Relief Web

⁴⁴ <http://www.reliefweb.int/rw/rwb.nsf/db900SID/SMDL-8EYHK5?OpenDocument&clickid=headlines> OCHA Relief Web

⁴⁵ OCHA is UN agency in charge of coordinating humanitarian relief.

⁴⁶ [http://www.reliefweb.int/rw/RWFiles2011.nsf/FilesByRWDocUnidFilename/SMDL-8EYHK5-full_report.pdf/\\$File/full_report.pdf](http://www.reliefweb.int/rw/RWFiles2011.nsf/FilesByRWDocUnidFilename/SMDL-8EYHK5-full_report.pdf/$File/full_report.pdf) OCHA Relief Web

⁴⁷ http://www.pro.who.int/sites/cha/disasters/2011/jpn_earthquake/list.htm

⁴⁸ <http://www.reliefweb.int/rw/rwb.nsf/db900sid/MUMA-8F3994?OpenDocument&rc=3&cc=jpn> OCHA Relief Web

⁴⁹ [http://www.reliefweb.int/rw/RWFiles2011.nsf/FilesByRWDocUnidFilename/MUMA-8F3994-full_report.pdf/\\$File/full_report.pdf](http://www.reliefweb.int/rw/RWFiles2011.nsf/FilesByRWDocUnidFilename/MUMA-8F3994-full_report.pdf/$File/full_report.pdf) OCHA Relief Web

- Primary bases: 27
 - Kashima LPG Joint Stockpiling Base (Cosmo Oil, Iwatani Corporation, Showa Shell): Shipment has resumed
 - Sendai gas terminal (ENEOS GLOBE and Astomos Energy): A fire has been reported near the low-temperature LPG tank (tank truck loading area) in the western district of the Sendai Refinery. Details are under investigation.
 - Kashima import base (Japan Gas Energy): Shipment by sea is impossible due to damage to the pier. Inspection is ongoing for ground shipping.
- Other 25 bases: No anomalies have been found.
- Secondary bases: 22
 - Hachinohe base (Astomos Energy): Shipment is suspended.
 - Ichikawa base (Astomos Energy): Shipment of propane gas has resumed. Shipment of Butane is impossible. (Shipment is to be planned from the alternative place)
 - Iwate oil terminal (ENEOS GLOBE): No one has been hurt. Since entry is restricted in the facility, inspection has not been implemented.
 - Shiogama LPG terminal (ENEOS GLOBE): No one has been hurt. Since entry is restricted in the facility, inspection has not been implemented.
 - Onahama LPG terminal (ENEOS GLOBE): No one has been hurt. Since entry is restricted in the facility, inspection has not been implemented.
- Other 17 bases: No anomalies have been found.
- Oil distribution facilities
 - Hokkaido Petroleum Industry Association: Despite a report on a tsunami in Tokachi, the sales structure is unaffected.
 - Corporation Hokkaido Prefecture LP Gas Society: At the Hakodate and Kushiro LPG bases, operation has been suspended due to an evacuation order for staff.
 - At the Tomakomai and Muroran LPG bases, operation has been suspended due to staff evacuation.
 - The supply availability at the Hakodate and Kushiro LPG bases is impossible to confirm because staff has been evacuated and the area is off limits.
 - The Tomakomai and Ishikari LPG bases are in operation and ready for supply.
- Upstream oil development companies
- <INPEX>
 - At Chiba Kogyosho, power has resumed. Minor damage was found in the water piping and its repair is now underway.
 - At Akita Kogyosho, power has resumed. Monitors show no anomalies in the pipelines. Line patrol continues.
- <JAPEX>

- Damage to pipelines, valve stations and other facilities in and around Sendai is under investigation. Supply to Sendai City Gas and Sennan-Gas has been suspended.
- A power outage still continues at and around Funakawa port, the crude oil shipping center in the Akita region.
- In Hokkaido, crude oil shipping facilities have completely restored operation. With LNG liquefaction facilities restarting operation, steady progress has been made for recovery.
- Refineries and other facilities
 - Hachinohe refinery (Mitsui Mining & Smelting – lead and zinc): Related facilities were partially damaged. Operation has been suspended.
 - Onahama refinery (Mitsubishi Materials – copper): Related facilities were partially damaged. Although power for maintenance has been restored, operation is still suspended.
 - Onahama refinery (Toho Zinc – zinc): Related facilities were partially damaged. Although power has resumed, operation is still suspended.
 - Hosokura refinery (Mitsubishi Materials – copper): Related facilities were partially cracked. Although power for maintenance has been restored, operation is still suspended.
 - Kosaka refinery (Dowa – copper and lead): No major damage has been found. Although power for maintenance has been restored, operation is still suspended.
 - Akita refinery (Dowa – zinc): No major damage has been found. Although power for maintenance has been restored, operation is still suspended.
 - Hitachi refinery (JX Nippon Mining & Metals – copper): Minor cracking was found in related facilities. Although power for maintenance has been restored, operation is still suspended.
 - Oya district, Utsunomiya City (old quarry for underground mining): Two cave-ins were confirmed at the side of a city road and beside a house. There were no casualties. The area has been closed to vehicles. Damage to a shed and an automobile caused by these cave-ins was confirmed. Safety of all the companies engaged in underground mining in the district has been confirmed. No anomalies were found in old cave-ins.
- Factory operations have been suspended one after another in the disaster-stricken area. While some companies have resumed operations, others are still under inspection or restoration of the facilities. There still remain many companies with no prospect of resuming.

(1) Steel Industry⁵⁰

- Nippon Steel Corporation

⁵⁰ I am surprised by the volume of heavy industry in Japan.

- Kamaishi Works: Production has been suspended. The premises are partially under water with roads made impassable. Production resumption is nowhere in sight due to damaged port facilities, thus alternative measures are being discussed. A possibility of alternate production and shipment at other steel plants and/or a group company is being considered.
- Kimitsu Works: Three units are at work. As for operation of the production line, rolling has started with due consideration about saving electricity.
- Muroran Works: No serious damage was found on the facilities. Blast furnaces are at work with shipments resumed as well.
- Other steel plants: Shipments have resumed since tsunami warnings were lifted.
- JFE Steel Corporation
- East Japan Works (Keihin area, Chiba area): The suspended blast furnaces resumed operation. They are now working at minimum operation for safety purposes.
- Sumitomo Metal Industries
- Kashima Steel Works: All production lines have been suspended. There is damage to facilities including the quay, coke holders and blast furnaces. The group is making its utmost efforts toward early restoration
- Electric steel companies in Sendai, Hachinohe, and Ishinomaki areas have been suspended due to submergence.

(2) Chemical plants

- Idemitsu Kosan Co., Ltd.
- Chiba Plant: Its naphtha cracker is working. Operation in some facilities has been suspended.
- Mitsubishi Chemical Corporation
- Kashima Plant: Its naphtha cracker has been suspended. Facilities are currently under inspection.
- JX Nippon Oil & Energy Corporation
- Kawasaki Plant: Its naphtha cracker has been suspended. Facilities are currently being inspected.
- Mitsui Chemicals, Inc.
- Ichihara Works: Its naphtha cracker is at work. Operations in some facilities have been suspended but are now being prepared for restart.
- Sumitomo Chemical Co., Ltd.
- Chiba Works: Its naphtha cracker is at work. Operations in some facilities have been suspended but are now being prepared for restart. suspend
- Tonen Chemical Corp.
- Kawasaki Plant: Its naphtha cracker is at work.
- Maruzen Petrochemical Co., Ltd.
- Chiba Plant: Its naphtha cracker has been suspended.
- Keiyo Ethylene Co., Ltd.
- Chiba Plant: Its naphtha cracker is at work.

(3) Auto industry

- Nissan Motor Co., Ltd.: Production will be suspended in its Tochigi Plant and Iwaki Plant until Friday March 18th and in Oppama Plant, Kyushu Plant, Nissan Shatai, and Yokohama Plant until Wednesday March 16th.
- Honda Motor Co., Ltd.: As of Monday March 14th, production has been suspended in the Saitama Factory, Tochigi Factory, Hamamatsu Factory and Suzuka Factory. All production sites including the above factories and Kumamoto Factory will suspend production from Tuesday March 15th to Sunday the 20th. Employees shall not report for work at any office in the Tochigi area which has suffered serious damage including Tochigi Factory, Honda R&D Co., Ltd. (Tochigi), and Honda Engineering Co., Ltd from Monday March 14th to Sunday the 20th during which restoration will be underway.
- Toyota Motor Corporation: Operation will be suspended at all Toyota factories (including body manufacturers) until Wednesday March 16th.

(4) Machinery

- Hitachi, Ltd.: Factory buildings and production facilities in Hitachi area have suffered damage. Investigation is underway for more details.
- Hitachi Construction Machinery Co., Ltd.: Buildings and production facilities, especially the production base in Ibaraki prefecture, have suffered damage. Investigation is underway for the details of damage.
- Komatsu Ltd.: Ibaraki Plant and Oyama Plant have suffered damage especially to their facilities. Currently, facility inspection and maintenance work is underway at both plants. Concern may remain high even after production is resumed because serious damage has been done to the Hitachinaka Port, Ibaraki Prefecture.

(5) Paper industry

- Nippon Paper Group, Inc.
- Ishinomaki Mill: Operation has been suspended. Water immersion has prevented site inspection of damage. Details will be investigated later.
- Iwanuma Mill: Operation has been suspended. The ceilings and side walls partially caved in a building housing machinery. Inspection is underway for details of other facilities.
- Nakoso Mill: Operation has been suspended. Inspection is underway for details.
- Mitsubishi Paper Mills Limited
- Hachinohe Mill: Operation has been suspended because of water immersion. Currently inspection is underway for damage to the facilities.
- Shirakawa Site: Operation has been suspended. Currently inspection is underway for damage to the facilities.
- Kitakami Hitec Paper Corp.: Operation has been suspended. Currently inspection is underway for damage to the facilities.
- Oji Paper Co., Ltd.
- Oji Paperboard's Nikko Mill: Operation has been suspended. Currently facility inspection is underway.
- Oji Chiyoda Container (Sendai factory): Operation has been suspended. It is unknown at this point when operation will be resumed..

- Oji Chiyoda Container (Fukushima factory): Operation has been suspended. It is expected to resume in a day or two.
 - Daio Paper Corporation
 - Iwaki Daio Paper Corporation: Operation has been suspended. It is expected to resume in a few days.
 - Rengo Co., Ltd.
 - Sendai Plant: Operation has been suspended due to tsunami damage.
 - Fukushima Yabuki Plant: Buildings and facilities have suffered damage. Restoration work is underway to resume operation.
- (6) Nonferrous (Electrical wire)
- Hitachi Cable's six plants in Hitachi-shi, Ibaraki (Minato Plant, Electrical Wire Plant, Hitaka Plant, Toyoura Plant, Takasago Plant, Tsuchiura Plant) have suspended operation. No significant damage has been found in the exterior of these plants, but there is no supply of electricity, gas, and water. Inspection of equipment and machinery has been underway for restoration. Minato Plant (Hitachi-shi, Ibaraki) was flooded by the tsunami, and it is currently being inspected in detail.
 - At SWCC Showa's Sendai office (Miyagi), equipment has been broken.
- (6) Nonferrous (Aluminum)
- Furukawa-Sky: Nikko plant (Tochigi), Oyama plant (Tochigi), and Fukaya plant (Saitama) suspended operation on March 11 (Fri.) for equipment inspection, but they resumed operation on March 12.
 - Sumitomo Light Metal: A production base in Nagoya continues to operate..
 - Showa Denko: At Oyama plant (Tochigi), glass broke and operation has been suspended. Kitakata office resumed operation on March 12 after equipment inspection.
- (6) Nonferrous (Silicon Wafer)
- Shirakawa plant of Shin-Etsu Handotai, a subsidiary of Shin-Etsu Chemical, has suspended operation. Three workers were slightly injured. It will decide whether or not to resume operation after equipment inspection.
- (6) Nonferrous (Other)
- The head office and production facilities of Pacific Metals (manufacturer of ferronickel, a material used in stainless steel and special steel) in Hachinohe head office was flooded by a tsunami. The company produces approximately 40,000 tons of ferronickel annually (reference: the total output of ferronickel in Japan is 68,000 tons in 2007), and there is a concern about the impact on the iron and steel (stainless steel) industry.
- (7) Aerospace
- There is no prospect of an equipment inspection at Jamco's maintenance factory in Sendai (aircraft accessories) and therefore of resuming operation. It has been working to collect information about damage, but it still cannot conduct an on-site investigation because roads are blocked.
 - IHI's Soma plant (Fukushima, engine components) is working to collect information about damage, but it is expected to take about a week to discover the whole situation. There are no prospects for resumption of operation.
- (8) Electronics

- Mitsubishi Electric: Three plants including one in Koriyama have suspended operation. Other plants are operating.
- NEC: Telecommunication equipment plant in Kitakami-shi, Iwate and an electric parts plant in Miyagi have been suspended production. NEC Personal Products' Yonezawa office resumed operation from March 14.
- Sony: Eight plants including the one in Tagajo-shi, Miyagi have suspended operation.
- Toshiba: Production has been suspended at a semiconductor plant in Kitakami-shi, Iwate, and electric component plants in Kimitsu-shi and Mobara-shi in Chiba.
- Fujitsu: Buildings and production facilities at six plants including those in Shibata-gun, Miyagi were damaged.
- Sharp: A TV assembly plant in Yaita, Tochigi has suspended operation, but it resumed regular production from March 15.
- Hitachi: Buildings and production facilities at six locations in Ibaraki and other prefectures were damaged and operations have been suspended.
- Panasonic: Production has been suspended in the Sendai plant and Fukushima plant.
- Alps Electric: It has experienced some troubles in infrastructure, buildings, and equipment and machinery. Seven plants including the one in Osaki-shi, Miyagi have suspended operations and recovery efforts have been made.

Lots More.

- The [Government of Japan](#) shares a situation report on response to the current humanitarian situation.⁵¹ What happened, what's being done about it, statistics, nuclear info. So far 114 countries and regions as well as 24 international organizations have expressed their intentions to extend assistance. (as of 9:00, March 16, 2011)
- Here⁵² is OCHA⁵³ situation report dated 2011 March 16 with 4 page [PDF](#).⁵⁴ It says situation reports are available directly from government of Japan at <http://www.kantei.go.jp>⁵⁵ There are multiple links, but I can't get copy/paste, nor link to them to work.

⁵¹ <http://www.reliefweb.int/rw/rwb.nsf/db900sid/LSGZ-8EZFDDB?OpenDocument&rc=3&cc=jpn> OCHA Relief Web

⁵² Thanks to Bev locating url for me.

⁵³ OCHA is UN agency tasked with coordination of recovery efforts after any disaster.

⁵⁴ [http://www.reliefweb.int/rw/rwb.nsf/db900sid/MCOI-8EZFN/\\$File/full_report.pdf](http://www.reliefweb.int/rw/rwb.nsf/db900sid/MCOI-8EZFN/$File/full_report.pdf) from OCHA Relief Web

⁵⁵ The Japanese link works here, and while the first page is 100% Japanese, there is an English link in far upper right corner.

Prefecture	Total Population	Rescued*	Missing	Evacuated	Dead	Totally Damaged	Partially Damaged
Miyagi	2,347,300	5,776	2,011	292,408	1,816	348	642
Iwate	1,327,869	810	3,318	46,405	1,296	76	160
Fukushima	2,025,461	665	2,507	131,665	509	2,413	8,099
Ibaraki	2,967,665	5	1	12,347	19	197	31,838
Chiba	6,217,119	4	7		16	346	3,128
Tochigi	2,007,014			9,530	4	37	18,198
TOTAL	16,892,428	7,260	7,844	492,355	3,660	3,417	62,065

- I downloaded a copy of this report, labeling it
 - Sitrep 2011 March 16 OCHA 5 EOJ
- I may have encountered same again. Here is OCHA⁵⁶ [Japan: Earthquake & Tsunami - Situation Report No. 5](#) dated 2011 March 16 with summary links⁵⁷ to detail situation report⁵⁸ and map.⁵⁹
 - The sit rep gives overall data, nuclear still under control but boron supply exhausted but Republic of Korea supplying more, weather snow impact on relief efforts, international efforts, etc.
 - I am having severe trouble copy/pasting info from this report, or connecting to the url links given there, so I rekey <http://eq.sakura.ne.jp> Ministry of Education source of radiation readings. Lots new acronyms, which I won't address from this PDF which is so hostile to copying info.
 - The map is political regions showing where most severe shaking etc., estimated population in each of the places hit hard by tsunami, and scale of area impacted by nuclear evacuation zone. This is just the initial strike, not aftershock implications..
- [United States Agency for International Development \(USAID\)](#) summary link⁶⁰ to [Pacific Tsunami and Japan earthquake, Factsheet #5](#) 3 page PDF.⁶¹ Original events, statistics, nuclear problems, more.
- On [WHO home site](#)⁶² note [Sitrep 7 - 16 March 2011](#).

MARCH 17 SITUATION REPORTS (1 MAR 23)

Situation Reports on Japan issued as of what was known **March 17**

⁵⁶ OCHA is UN agency tasked with coordination of recovery efforts after any disaster.

⁵⁷ <http://www.reliefweb.int/rw/rwb.nsf/db900sid/MCOI-8EZFN?OpenDocument&rc=3&cc=jpn> OCHA Relief Web

⁵⁸ [http://www.reliefweb.int/rw/rwb.nsf/db900sid/MCOI-8EZFN/\\$File/full_report.pdf](http://www.reliefweb.int/rw/rwb.nsf/db900sid/MCOI-8EZFN/$File/full_report.pdf) OCHA Relief Web

⁵⁹ [http://www.reliefweb.int/rw/rwb.nsf/db900sid/MCOI-8EZFN/\\$File/map.pdf](http://www.reliefweb.int/rw/rwb.nsf/db900sid/MCOI-8EZFN/$File/map.pdf) OCHA Relief Web

⁶⁰ <http://www.reliefweb.int/rw/rwb.nsf/db900sid/KKAA-8EZ2E5?OpenDocument&rc=3&cc=jpn> from OCHA Relief Web

⁶¹ [http://www.reliefweb.int/rw/rwb.nsf/db900sid/KKAA-8EZ2E5/\\$File/full_report.pdf](http://www.reliefweb.int/rw/rwb.nsf/db900sid/KKAA-8EZ2E5/$File/full_report.pdf) from OCHA Relief Web

⁶² http://www.wpro.who.int/sites/cha/disasters/2011/jpn_earthquake/list.htm

The [Government of Japan](#) shares [Japan: Press Conference by the Chief Cabinet Secretary, Thursday, March 17 at 06:42pm, 2011](#) dealing with current evolving situation. There was nothing in here relevant to my nuclear **Time Line**.

At a meeting today of the Headquarters for Emergency Disaster Measures, the headquarters chief took a decision to establish under his authority a Subsidiary Headquarters for Special Measures to Assist the Lives of Disaster Victims. This decision was taken in order to strengthen the system in place for assisting the daily lives of those affected by the disaster. This led to some shifts in government personnel duties.

Many people around the country have offered to provide temporary shelters for disaster victims in their homes rather than letting them continue to subsist on the bare minimum in cold emergency refuge areas.

Electricity is close to capacity, so additional power cuts needed.

Over the past few days there have been reports of bank transfer-related identity fraud in which people have attempted to take advantage of the damage and suffering sustained as a result of this disaster. People in the affected areas and emergency refuge areas are doing their best to cope with an extremely challenging and harsh situation. The Self-Defense Forces, fire fighters, police, and many others are also working in extremely harsh and often dangerous conditions to overcome this national disaster. It is extremely regrettable that cases like this should have arisen in which people have tried to take advantage of the situation in this way. However, it is also a fact, and I would ask you therefore to be on your guard.

Japan: Bitter winter conditions, debris, and damaged roads hampering relief operations »

HIGHLIGHTS/KEY PRIORITIES - Significant increase in the amount of humanitarian aid delivered but a lack of fuel is a major obstacle - Government prioritizes assistance to the half a million sheltering in evacuation centers - Bitter winter... [Read more..](#) | UN Office for the Coordination of Humanitarian Affairs , 17 Mar 2011

- This is OCHA⁶³ with summary link⁶⁴ to detail March 17 situation # 6 report PDF.⁶⁵

[Japan: The 2011 off the Pacific coast of Tohoku earthquake - Situation Report 3](#) or SEEDS Asia summary link⁶⁶ March 17 to detail PDF.⁶⁷ Summary situation in various Japanese locations, what NGOs active where already, doing what, that they know of.

⁶³ [United Nations Office for the Coordination of Humanitarian Affairs \(OCHA\)](#) is UN agency tasked with coordination of recovery efforts after any disaster.

⁶⁴<http://www.reliefweb.int/rw/rwb.nsf/db900SID/SMDL-8F2GVV?OpenDocument&clickid=headlines> OCHA Relief Web

⁶⁵[http://www.reliefweb.int/rw/RWFiles2011.nsf/FilesByRWDocUnidFilename/SMDL-8F2GVV-full_report.pdf/\\$File/full_report.pdf](http://www.reliefweb.int/rw/RWFiles2011.nsf/FilesByRWDocUnidFilename/SMDL-8F2GVV-full_report.pdf/$File/full_report.pdf) OCHA Relief Web

⁶⁶ <http://www.reliefweb.int/rw/rwb.nsf/db900sid/JARD-8F37VU?OpenDocument&rc=3&cc=jpn> OCHA Relief Web

- ADRA Japan
- Association for Aid and Relief (AAR)
- Association of Medical Doctors of Asia (AMDA)
- CARE
- Charity Platform
- Civic Force
- Good Neighbors Japan
- Japan International Food for the Hungry (JIFH)
- Japan Rescue Association (JRA)
- JEN
- JPF
- Just Giving
- KnK
- MSF
- NGO collaboration center for HANSHIN QUAKE Rehabilitation
- NICCO
- Oxfam Japan
- Peace Winds Japan (PWJ)
- Plan Japan
- SEEDS Asia
- Shanti Volunteer Association(SVA)
- Shaplaneer
- Shizuoka Volunteer center
- World Vision Japan (WVJ)

After consolidating information from Japanese NGOs working in the affected area and

⁶⁷[http://www.reliefweb.int/rw/RWFiles2011.nsf/FilesByRWDocUnidFilename/JARD-8F37VU-full_report.pdf/\\$File/full_report.pdf](http://www.reliefweb.int/rw/RWFiles2011.nsf/FilesByRWDocUnidFilename/JARD-8F37VU-full_report.pdf/$File/full_report.pdf) OCHA Relief Web

media, below items are the most needed.

Food

- Nonperishable food
- Water (PET bottle and 500ml 2 liter)
- Other beverage (PET bottle, 500ml, and 2 liters)

Power Supply

- Gas/Fuel (transportation, heat)
- Generator

Medical Supply

WatSan

- Portable toilet

Daily necessities

- Diapers (baby/senior), Femme-care
- Sanitary items/soap and tissue
- First aid kit
- Blanket (the new or cleaned blanket, futon is improper).
- Warm clothing
- Formula Milk

On [WHO home site](#)⁶⁸ note [Sitrep 8 - 17 March 2011](#).

MARCH 18 SITUATION REPORTS (1 MAR 23)

Situation Reports on Japan issued as of what was known **March 18**

On [WHO home site](#)⁶⁹ note [Sitrep 9 - 18 March 2011](#).

MARCH 19 SITUATION REPORTS (1 MAR 23)

Situation Reports on Japan issued as of what was known **March 19**

On [WHO home site](#)⁷⁰ note [Sitrep 10 - 19 March 2011](#).

MARCH 20 SITUATION REPORTS (1 MAR 23)

Situation Reports on Japan issued as of what was known **March 20**

On [WHO home site](#)⁷¹ note [Sitrep 11 - 20 March 2011](#).

MARCH 21 SITUATION REPORTS (1 MAR 23)

Situation Reports on Japan issued as of what was known **March 21**

I uploaded OCHA-10 and shared with [Japan Resilience](#).⁷²

Japan: Bad weather returns to worst affected areas, disrupts relief operations »

⁶⁸ http://www.wpro.who.int/sites/eha/disasters/2011/jpn_earthquake/list.htm

⁶⁹ http://www.wpro.who.int/sites/eha/disasters/2011/jpn_earthquake/list.htm

⁷⁰ http://www.wpro.who.int/sites/eha/disasters/2011/jpn_earthquake/list.htm

⁷¹ http://www.wpro.who.int/sites/eha/disasters/2011/jpn_earthquake/list.htm

⁷² <http://japan.resiliencesystem.org/bad-winty-weather-areas-impacted-earthquakes-and-tsunamis>

- I. HIGHLIGHTS/KEY PRIORITIES • Bad weather returns to the worst affected areas affecting the distribution of goods • Half a million blankets distributed but all other relief items still urgently needed • The World Bank says Japan will take at least... [Read more..](#) | UN Office for the Coordination of Humanitarian Affairs , 21 Mar 2011

World Bank says Japan will take at least five years to reconstruct its earthquake and tsunami affected regions

On [WHO home site](#)⁷³ note [Sitrep 12 - 21 March 2011](#).

MARCH 22 SITUATION REPORTS (1 MAR 23)

Situation Reports on Japan issued as of what was known **March 22**

On [WHO home site](#)⁷⁴ note [Sitrep 13 - 22 March 2011](#).

MARCH 23 SITUATION REPORTS (1 MAR 23)

Situation Reports on Japan issued as of what was known **March 23**

On [WHO home site](#)⁷⁵ note [Sitrep 14 - 23 March 2011](#).

⁷³ http://www.wpro.who.int/sites/cha/disasters/2011/jpn_earthquake/list.htm

⁷⁴ http://www.wpro.who.int/sites/cha/disasters/2011/jpn_earthquake/list.htm

⁷⁵ http://www.wpro.who.int/sites/cha/disasters/2011/jpn_earthquake/list.htm