International Charter Space and Major Disasters

Charter Activation 595

Charter Call ID 685

Disaster Event Flood

Disaster Location BRAZIL

Date of Final Reporting 2019.04.24

PM Report

Project Managers for Charter activations are expected to provide the PM report to the Charter Executive Secretariat within 45 days after the start of the activation.

^{*}Reporting forms completed by: Lucas Mikosz

^{*}Reporting forms reviewed by: Laercio Namikawa (INPE)

A. Disaster Event Summary						
*A1. Emergency type:	Flood					
*A2. Date disaster initiated	d: 13 Jan 2019					
*A3. Disaster location and	extent: Rio Grande do Sul State, BRAZIL (~60 km2)					
A4. Estimated number of	deaths: 03					
A5. Estimated number of	people affected: 8496					
A6. Estimated economic lo	osses: not estimated					
A7. Additional disaster impacts (environmental, infrastructure, etc): Flooded houses, dislodged people and agricultural damages						
A8. Additional disaster eve	A8. Additional disaster event details: Heavy rains on the Ibiraputã river affected the city of Alegrete and on					

A8. Additional disaster event details: Heavy rains on the Ibiraputã river affected the city of Alegrete and on the Ibicuí river affected the city of Manoel Viana. The Ibirapuitã merge with Ibicuí and then with Uruguay river. The combination of flood waves affected the downstream city of Uruguaiana,

^{*} mandatory

B. Activation Inforn						
*B1. Date of Charter	activation 13	Jan 2019				
*B2. Geographical C	oordinates (La	at - Long)				
Bounding Box:	Upper l	eft corner:	Centre Point(s):		(1): centerPoint_1 S 29°47', W 55°47', radius: 4	
	Upper r	ight corner:			(2): centerPoint_2 S 29°35', W 55°29', radius: 4	
	Lower	eft corner:			(3): centerPoint_3 S 29°45', W 57°5', radius: 10	
	Lower r	Lower right corner:				
			1			
*B3. Authorized User Lucas Mikosz	r/Requestor:	*Organization: C	ENAD *AU contacted ODC		ntacted ODO: 13 Jan 2019	
B4. On behalf:		Organization:				
*B5. ECO: Hendrik Z	Zwenzner	*Organization: D	zation: DLR		*ECO contacted PM: 13 Jan 2019 19:26	
*B6. Project Manager: Lucas *Organization: IN Mikosz			*PM nominated: 13 Jan 20 19:16 By: INPE			
B7. Value-adding Re	seller or orgar	nization(s): CENAL)	 First a 	ages available: rchive (pre-event) s) (dd mmm yyyy): 14 Jan	
					risis (post-event) image(s) m yyyy): 14 Jan 2019	

*B8. End User(s):	*Organization: National Center of Risk and Disaster Management, Geological Service of Brazil.	Date of first Value-adding (VA) products (e.g. maps and charts from the PM or VAR) based on archive image (dd mmm yyyy): 15 Jan 2019 Date of first VA crisis product** (dd mmm yyyy) delivered to End User: 15 Jan 2019 **can be a product based on both archive and crisis images.
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^{*} mandatory

C. Intervention Summary

- *C1. Describe the activation in detail and describe the interaction between the PM and the AU:

 * The type(s) and acquisition date(s) of the first post-event (crisis) image(s) received from the Charter:
- * The type and acquisition date of the first post-event (crisis) image that was used to generate a VA product:
 * The date the first VA crisis product was generated:

*C2. Provide a chronology of events associated with the disaster and the Charter activation: -

Call 685:

ODO confirmation, ECO call notification on 13 Jan 2019 18:34

ECO URF validation on 13 Jan 2019 19:00

ERF v.1.0 sent to MPP of CSA on 13 Jan 2019 19:13

ERF v.1.0 sent to MPP of ROSCOSMOS on 13 Jan 2019 19:14

ERF v.1.0 sent to MPP of JAXA on 13 Jan 2019 19:14

ERF v.1.0 sent to MPP of ESA on 13 Jan 2019 19:14

ERF v.1.0 sent to MPP of CNES on 13 Jan 2019 19:14

ERF v.1.0 sent to MPP of INPE on 13 Jan 2019 19:14

ERF v.1.0 sent to MPP of PLANET on 13 Jan 2019 19:14

ERF v.1.0 sent to MPP of DLR on 13 Jan 2019 19:14

ERF v.1.0 sent to MPP of USGS on 13 Jan 2019 19:14

ERF v.1.0 sent to MPP of KARI on 13 Jan 2019 19:14

PM nominated by INPE on 13 Jan 2019 19:16

ERF v.1.0 sent to MPP of CNSA on 13 Jan 2019 19:18

ECO Dossier completed on 13 Jan 2019 19:26

ECO Dossier validated by PM on 13 Jan 2019 19:42

AAP received from MPP of ROSCOSMOS on 13 Jan 2019 20:02

AAP received from MPP of ROSCOSMOS on 13 Jan 2019 20:02

AAP received from MPP of ROSCOSMOS on 13 Jan 2019 20:02

AAP received from MPP of DLR on 13 Jan 2019 22:02

AAP received from MPP of DLR on 13 Jan 2019 22:03

AAP received from MPP of KARI on 14 Jan 2019 07:08

AAP received from MPP of KARI on 14 Jan 2019 07:08

AAP received from MPP of KARI on 14 Jan 2019 07:08

AAP received from MPP of KARI on 14 Jan 2019 07:08

Data Product received from MPP of ESA on 14 Jan 2019 18:30

Data Product received from MPP of CNES on 14 Jan 2019 21:04

VAP uploaded on 14 Jan 2019 21:12

Data Product received from MPP of ESA on 15 Jan 2019 00:00

Data Product received from MPP of ESA on 15 Jan 2019 00:00

Data Product received from MPP of KARI on 15 Jan 2019 02:01

 * C3. Fill in the table below in order to include the data not received through COS-2. List the date (dd/mm/ yyyy) that each image was collected).

Agency	Satellite Sensing		Date of:	Sensing / Reception dates of metadata / products			
	Instrument Mode	dates of requested products		Attempt 1	Attempt 2	Attempt 3	Archive
CNES	PLEIADES	14 Jan 2019	Reception	14 jan 2019			
	PHR1A		Sensing	14 jan 2019			
CNES	PLEIADES	16 Jan 2019	Reception	24 Jan 2019			
	PHR1B		Sensing	16 Jan 2019			
CNES	PLEIADES PHR1A	21 Jan 2019	Reception	21 Jan 2019			
	FIINIA		Sensing	21 Jan 2019			
CNES	PLEIADES PHR1A	21 Jan 2019	Reception	21 Jan 2019			
	FIINIA		Sensing	21 Jan 2019			
CNES	PLEIADES PHR1B	20 Jan 2019	Reception	20 Jan 2019			
	FIRID		Sensing	20 Jan 2019			
CNES	PLEIADES PHR1B	20 Jan 2019	Reception	20 Jan 2019			
	PHRIB		Sensing	20 Jan 2019			
CNES	PLEIADES	20 Jan 2019	Reception	20 Jan 2019			
	PHR1B		Sensing	20 Jan 2019			
CNES	PLEIADES	19 Jan 2019	Reception	19 Jan 2019			
	PHR1A		Sensing	19 Jan 2019			
CNES		S 19 Jan 2019	Reception	19 Jan 2019			
	PHR1A		Sensing	19 Jan 2019			
CNES	PLEIADES PHR1A	19 Jan 2019	Reception	19 Jan 2019			
	FIRIA		Sensing	19 Jan 2019			
CNES	PLEIADES PHR1B	18 Jan 2019	Reception	18 Jan 2019			
	FIRID		Sensing	18 Jan 2019			
CNES	PLEIADES PHR1B	18 Jan 2019	Reception	18 Jan 2019			
	FIIKID		Sensing	18 Jan 2019			
CNES	PLEIADES PHR1A	17 Jan 2019	Reception	17 Jan 2019			
	THINA		Sensing	17 Jan 2019			
CNES	PLEIADES PHR1A	17 Jan 2019	Reception	17 Jan 2019			
	1111(1/)		Sensing	17 Jan 2019			
CNES	PLEIADES PHR1B	17 Jan 2019	Reception	17 Jan 2019			
	TTIICID		Sensing	17 Jan 2019			
CNES	PLEIADES PHR1B	16 Jan 2019	Reception	16 Jan 2019			
	TTIINID		Sensing	16 Jan 2019			
CNES	PLEIADES PHR1B	16 Jan 2019	Reception	16 Jan 2019			
	וווווו		Sensing	16 Jan 2019			
CNES	PLEIADES PHR1B	16 Jan 2019	Reception	16 Jan 2019			
	THILL		Sensing	16 Jan 2019			

CNEC	DI EIADEC	45 Jan 2040	Decention	15 Jan 2019	
CNES	PLEIADES PHR1A	15 Jan 2019	Reception		
ONEO	DI EIADEO	45 1 0040	Sensing	15 Jan 2019	
CNES	PLEIADES PHR1A	15 Jan 2019	Reception	15 Jan 2019	
01150	DI EIADEO	45 1 0040	Sensing	15 Jan 2019	
CNES	PLEIADES PHR1A	15 Jan 2019	Reception	15 Jan 2019	
11000	MODI DVIII	04 1 0040	Sensing	15 Jan 2019	
USGS	WORLDVIE W1	24 Jan 2019	Reception	31 Jan 2019	
	EO_IMAGE R		Sensing	24 Jan 2019	
USGS	WORLDVIE W1	24 Jan 2019	Reception	31 Jan 2019	
	EO_IMAGE R		Sensing	24 Jan 2019	
USGS	WORLDVIE W1 EO_IMAGE R	24 Jan 2019	Reception	31 Jan 2019	
			Sensing	24 Jan 2019	
USGS	WORLDVIE	24 Jan 2019	Reception	31 Jan 2019	
	W1 EO_IMAGE R		Sensing	24 Jan 2019	
USGS	WORLDVIE	29 Jan 2019	Reception	31 Jan 2019	
	W2 EO_IMAGE R		Sensing	29 Jan 2019	
USGS	WORLDVIE	29 Jan 2019	Reception	31 Jan 2019	
	W2 EO_IMAGE R		Sensing	29 Jan 2019	
USGS	WORLDVIE	29 Jan 2019	Reception	31 Jan 2019	
	W2 EO_IMAGE R		Sensing	29 Jan 2019	
USGS	WORLDVIE	29 Jan 2019	Reception	31 Jan 2019	
	W2 EO_IMAGE R		Sensing	29 Jan 2019	
USGS	WORLDVIE	29 Jan 2019	Reception	31 Jan 2019	
	W2 EO_IMAGE R		Sensing	29 Jan 2019	
USGS	WORLDVIE	29 Jan 2019	Reception	31 Jan 2019	
	W2 EO_IMAGE R		Sensing	29 Jan 2019	
USGS	WORLDVIE	08 Dec 2018	Reception		16 Jan 2019
	W2 EO_IMAGE R		Sensing		08 Dec 2018
USGS	WORLDVIE	08 Dec 2018	Reception		16 Jan 2019
	W2 EO_IMAGE R		Sensing		08 Dec 2018
USGS	WORLDVIE	22 Nov 2018	Reception		16 Jan 2019

	vv∠ EO_IMAGE R		Sensing	22 Nov 2018
USGS	WORLDVIE W2 EO_IMAGE	08 Dec 2018	Reception Sensing	16 Jan 2019 08 Dec 2018
USGS	R WORLDVIE	22 Nov 2018	Reception	16 Jan 2019
	W2 EO_IMAGE R		Sensing	22 Nov 2018
USGS	WORLDVIE	22 Nov 2018	Reception	16 Jan 2019
	W2 EO_IMAGE R		Sensing	22 Nov 2018
USGS	WORLDVIE	08 Dec 2018	Reception	16 Jan 2019
	W2 EO_IMAGE R		Sensing	08 Dec 2018
USGS	WORLDVIE	22 Nov 2018	Reception	16 Jan 2019
	W2 EO_IMAGE R		Sensing	22 Nov 2018
USGS	GEO_EYE_	07 Jun 2018	Reception	16 Jan 2019
	1 EO_IMAGE R		Sensing	07 Jun 2018
USGS	GEO_EYE_	07 Jun 2018	Reception	16 Jan 2019
	1 EO_IMAGE R		Sensing	07 Jun 2018
USGS	GEO_EYE_	07 Jun 2018	Reception	16 Jan 2019
	EO_IMAGE R		Sensing	07 Jun 2018
USGS	GEO_EYE_ 1	07 Jun 2018	Reception	16 Jan 2019
	EO_IMAGE R		Sensing	07 Jun 2018
USGS	GEO_EYE_	07 Jun 2018	Reception	16 Jan 2019
	EO_IMAGE R		Sensing	07 Jun 2018
USGS	GEO_EYE_	07 Jun 2018	Reception	16 Jan 2019
	EO_IMAGE R		Sensing	07 Jun 2018
USGS	GEO_EYE_	29 Nov 2018	Reception	16 Jan 2019
	EO_IMAGE R		Sensing	29 Nov 2018
USGS	GEO_EYE_	29 Nov 2018	Reception	16 Jan 2019
	EO_IMAGE R		Sensing	29 Nov 2018
USGS	GEO_EYE_	29 Nov 2018	Reception	16 Jan 2019
	EO_IMAGE R		Sensing	29 Nov 2018
USGS	GEO_EYE_	29 Nov 2018	Reception	16 Jan 2019

	EO_IMAGE R		Sensing		29 Nov 2018
USGS	LANDSAT 7	20 Nov 2018	Reception		16 Jan 2019
	ETM		Sensing		20 Nov 2018
USGS	LANDSAT 7	28 Oct 2018	Reception		16 Jan 2019
	ETM		Sensing		28 Oct 2018
USGS	LANDSAT 7	28 Oct 2018	Reception		16 Jan 2019
	ETM		Sensing		28 Oct 2018
USGS	LANDSAT 7	20 Nov 2018	Reception		16 Jan 2019
	ETM		Sensing		20 Nov 2018
USGS	LANDSAT 7	16 Jan 2019	Reception	16 Jan 2019	
	ETM		Sensing	16 Jan 2019	
USGS	LANDSAT 7	16 Jan 2019	Reception	16 Jan 2019	
	ETM		Sensing	16 Jan 2019	
USGS	LANDSAT 8	28 Nov 2018	Reception		16 Jan 2019
	OLI_TIRS		Sensing		28 Nov 2018
USGS	LANDSAT 8	28 Nov 2018	Reception		16 Jan 2019
	OLI_TIRS		Sensing		28 Nov 2018
USGS	LANDSAT 8	07 Dec 2018	Reception		16 Jan 2019
	OLI_TIRS		Sensing		07 Dec 2018
USGS	LANDSAT 8	07 Dec 2018	Reception		16 Jan 2019
	OLI_TIRS		Sensing		07 Dec 2018
INPE	CBER-4	16 Jan 2019	Reception	17 Jan 2019	
	panMUX		Sensing	16 Jan 2019	
INPE	CBER-4	16 Jan 2019	Reception	17 Jan 2019	
	panMUX		Sensing	16 Jan 2019	
INPE	CBER-4	02 Jan 2019	Reception		15 Jan 2019
	panMUX		Sensing		02 Jan 2019
INPE	CBER-4	02 Jan 2019	Reception		15 Jan 2019
	panMUX		Sensing		02 Jan 2019
INPE	CBER-4	04 Feb 2018	Reception		15 Jan 2019
	panMUX		Sensing		04 Feb 2018
INPE	CBER-4	04 Feb 2018	Reception		15 Jan 2019
	panMUX		Sensing		04 Feb 2018
INPE	CBER-4	04 Feb 2018	Reception		15 Jan 2019
	panMUX		Sensing		04 Feb 2018
INPE	CBER-4	04 Feb 2018	Reception		15 Jan 2019
	panMUX		Sensing		04 Feb 2018
CSA	RADARSAT	(Archive) 13	Reception		18 Jan 2019

	SAR_RAD_ 2	Jan Zu'i /	Sensing		13 Jan 2017
	ULTRA_FIN E				
CSA	RADARSAT	(Archive) 01	Reception		18 Jan 2019
	2 SAR_RAD_	Mar 2017	Sensing		01 Mar 2017
	2 ULTRA_FIN E				
CSA	RADARSAT	16 Jan 2019	Reception	18 Jan 2019	
	2 SAR_RAD_		Sensing	16 Jan 2019	
	2 ULTRA_FIN E				
CSA	RADARSAT	17 Jan 2019	Reception	18 Jan 2019	
	2 SAR_RAD_		Sensing	17 Jan 2019	
	2 ULTRA_FIN E				
DLR	TERRASAR	17 Jan 2019	Reception	13 Jan 2019	
	_X SAR_DLR SM		Sensing	17 Jan 2019	
DLR	TERRASAR	17 Jan 2019	Reception	13 Jan 2019	
	_X SAR_DLR SM		Sensing	17 Jan 2019	
ESA		14 Jan 2019	Reception	15 Jan 2019	
	1 SAR IWS		Sensing	14 Jan 2019	
ESA	SENTINEL_ 1 SAR IWS	14 Jan 2019	Reception	15 Jan 2019	
	I SAR IVIS		Sensing	14 Jan 2019	
ESA	SENTINEL_ 1 SAR IWS	15 Jan 2019	Reception	15 Jan 2019	
	TOARTWO		Sensing	15 Jan 2019	
ESA	SENTINEL_ 1 SAR IWS	16 Jan 2019	Reception	15 Jan 2019	
	1 6/ 11 11 10		Sensing	16 Jan 2019	
ESA	SENTINEL_ 1 SAR IWS	17 Jan 2019	Reception	15 Jan 2019	
	1 6/4(1446		Sensing	17 Jan 2019	
ESA	SENTINEL_ 1 SAR IWS	18 Jan 2019	Reception	15 Jan 2019	
			Sensing	18 Jan 2019	
ESA	SENTINEL_ 1 SAR IWS	18 Jan 2019	Reception	15 Jan 2019	
	. 0,		Sensing	18 Jan 2019	
ESA	SENTINEL_ 1B SAR IWS	06 Jan 2019	Reception		14 Jan 2019
			Sensing		06 Jan 2019
JAXA	ALOS2 PALSAR2	15 Jan 2019	Reception	15 Jan 2019	
	SM		Sensing	15 Jan 2019	
JAXA	ALOS2 PALSAR2	15 Jan 2019	Reception	15 Jan 2019	
	SM		Sensing	15 Jan 2019	

JAXA	ALOS2 PALSAR2	15 Jan 2019	Reception	15 Jan 2019			
	SM		Sensing	15 Jan 2019			
KARI	KOMPSAT2	(Archive) 15	Reception				14 Jan 2019
	MSC PMS	Apr 2018	Sensing				15 Apr 2018
KARI	KOMPSAT2	(Archive) 07	Reception				15 Jan 2019
	MSC PMS	Aug 2018	Sensing				07 Aug 2018
KARI	KOMPSAT2 MSC PMS	(Archive) 17 Mar 2017	Reception				15 Jan 2019
	IVISC FIVIS	IVIAI ZUTI	Sensing				17 Mar 2017
KARI	KOMPSAT5 COSI ST	(Archive) 21 Jun 2017	Reception				15 Jan 2019
	000101	0011 20 17	Sensing				21 Jun 2017
KARI	KOMPSAT2 MSC PMS	15 Jan 2019	Reception	14 Jan 2019			
	WIGOT WIG		Sensing	15 Jan 2019			
KARI	KOMPSAT3 AEISS PMS	16 Jan 2019	Reception	14 Jan 2019			
	ALIOUTINO		Sensing	16 Jan 2019			
KARI	KOMPSAT5 COSI ST	18 Jan 2019	Reception	14 Jan 2019			
	000101		Sensing	18 Jan 2019			
KARI	KOMPSAT5 COSI ST	19 Jan 2019	Reception	21 Jan 2019			
	000101		Sensing	19 Jan 2019			
ROSCOSM OS	RESURS_P GEOTON 1	15 Jan 2019	Reception	13 Jan 2019			
	0201011_1		Sensing	15 Jan 2019			
ROSCOSM OS	RESURS_P GEOTON 1	18 Jan 2019	Reception	13 Jan 2019			
	0201011_1		Sensing	18 Jan 2019			
ROSCOSM OS	RESURS_P GEOTON 1	21 Jan 2019	Reception	13 Jan 2019			
	0201011_1		Sensing	21 Jan 2019			
*C4. Fill in t	he table belov	v identifying the	e available v	alue added pro	duct data.		
Title		Source		Acquired	Received	Copyright	
Areas affected the city of Uru Grande do Su	guaiana, Rio	SENTINEL 1A CBERS-4		17 Jan 2019 02 Jan 2019	17 Jan 2019 15 Jan 2019	ESA INPE	
		CBERS-4 CBERS-4			16 Jan 2019 15 Jan 2019	INPE INPE	
,		RADARSAT-2 CBERS-4		16 Jan 2019 04 Feb 2018	16 Jan 2019 15 Jan 2019	CSA INPE	
Areas affected by floods is Uruguaiana/RS SENTINEL 1A CBERS-4			15 Jan 2019 02 Jan 2019	15 Jan 2019 15 Jan 2019	ESA INPE		
Areas affected Alegrete City, do Sul, Brazil		PLEIADES PH	R1A	14 Jan 2019	14 Jan 2019	CNES	

^{*} mandatory

D. Intervention Assessment

D1. Usefulness of data provided by the Charter

*D1.1 Did the post-disaster data ordered by the ECO (prescribed data) meet your expectations? (Indicate your level of satisfaction by placing an [X] in the appropriate box)

Service	Fully Satisfied	Partially Satisfied	Not Satisfied
a. Range/type of data (optical, radar)	X		
b. Volume of data provided (duplication of type, physical volumes)	X		
c. Coverage (visibility of area of interest)	X		
d. Timeliness of data delivery	X		
e. Data format	X		
f. Not applicable post-disaster data was not provided			

*D1.2 Did the pre-disaster data ordered by the ECO (prescribed data) meet your expectations? (Indicate your level of satisfaction by placing an [X] in the appropriate box)

Service	Fully Satisfied	Partially Satisfied	Not Satisfied
a. Range/type of data (optical, radar)	X		
b. Volume of data provided (duplication of type, physical volumes)	x		
c. Coverage (visibility of area of interest)	X		
d. Timeliness of data delivery	X		
e. Data format	X		
f. Not applicable post-disaster data was not provided			

*D1.3	3 If you requested	d additional Charte	r data, did these	e data meet your	expectations?	(Indicate your	leve
of sa	tisfaction by placi	ng an [X] in the ap	propriate box):				

Service	Fully Satisfied	Partially Satisfied	Not Satisfied		
a. Range/type of data (optical, radar)	X				
b. Volume of data provided (duplication of type, physical volumes)	x				
c. Coverage (visibility of area of interest)	X				
d. Timeliness of data delivery	X				
e. Data format	X				
f. Not applicable post-disaster data was not provided					
D1.5 If you did not use data provided by the Charter, please	explain why the	ey were not used	d:		
Most of the post event data was used. We had some issues with images acquired outside area of interest, but the situation was reported directly to the Charter member involved.					
D1.6 Were satellite data from outside the Charter used to su type of data and their source	pport this event	? If so, please i	ndicate the		
No.					

D2. Usefulness of value adding service provided through the Charter

*D2.1 List the value-added products obtained from the Charter data:

a. Shape files	
b. Image files	
c. Web mapping services	
d. Others, please state	

*D2.2 How useful do you think the value-add usefulness by placing an [X] in the appropria	ed products were for the end user(s)? (Indicate the level te box):	of
a. Very useful		
b. Partially useful	X	
c. Not so useful		
d. Unknown		
D2.3 If you believe the value-added products	s were not so useful, please explain why: arrow strips within urban areas, and was difficult to pinpoi	int
the precise extension of the affected areas.	arrow strips within urban areas, and was difficult to piripol	
*D2.4 If known, how were the value-added p placing an [X] in the appropriate boxes):	roducts used by the end user(s)? (Indicate the use by	
a. Operations	X	
b. Planning		
c. Communication		
d. Documentation	X	
e. Lessons	X	
f. Not used		
g. Unknown		
h. Other		
D2.5 How could the value added products be	e improved to make them more useful for the end user(s)	?
VA products optimized to be displayed on en	d user's cellphones.	
D3. Assessment of overall Charter process in	n support of this call	
*D3.1 Did the following steps in the Charter p satisfaction by placing an [X] in the appropria	process meet with your expectations? (Indicate your leve ate box):	el of

Service	Fully	Partially	Not
	Satisfied	Satisfied	Satisfied
a. Assignment of PM (e.g. role acknowledgement, PM Welcome Package)	X		

b. Communication with the ECO (e.g. Delivery of ECO Dossier)	X	
c. Interface between the PM and Order Desks (if appli	cable) _X	
d. Performing licensing / signature of NDAs	x	
e. Interface between the PM and the End User(s)	X	
f. Interface between the PM and ES	X	
g. Interface between the PM and VA	X	
h. Use of the COS-2 system	X	
*D3.2 If you had to accept licensing terms and conditi Charter call, did the procedure run smoothly? a. Yes	ions / sign Non-Disclos	ure Agreements during this
b. No		
c. Not applicable		
If you experienced problems during the process, pleas	se provide further detail	s:
If you experienced problems during the process, pleas	se provide further detail	s:
No problems to report		
No problems to report	arter process, please let	us know why:
No problems to report D3.3 If you were not satisfied with any step in the Cha	arter process, please let	us know why:
No problems to report D3.3 If you were not satisfied with any step in the Cha	arter process, please let	us know why:
No problems to report D3.3 If you were not satisfied with any step in the Cha	arter process, please let	us know why:

D5. End User Feedback

Attach a copy of user feedback forms (Annex G) submitted by the end users or email correspondence regarding the end user(s).

E. Supporting Documentation

*E1. Provide samples of media coverage of the disaster event from TV, radio, newspapers, websites, etc. Where possible, copy the content of the article into the PM report rather than only the web addresses:

From:

http://floodlist.com/america/argentina-brazil-uruguay-floods-january-2019

[report]

Argentina, Brazil, Uruguay – 4 Killed in Storms and Floods, Rivers Rising After Record Rainfall

10 January, 2019 by Richard Davies in Americas, News

At least 3 people have died in flooding and storms that have affected several provinces of <u>Argentina</u> over the last few days.

Heavy rain and flooding was reported in Corrientes, Tucumán, Santa Fe and Chaco, while strong winds caused damage in Santiago del Estero. Record rainfall was recorded in Resistencia, Chaco.

Meanwhile authorities have warned that the Uruguay River could reach danger levels in Concordia, Entre Rios, Argentina.

The Uruguay River has already broken its banks upstream, causing flooding in the <u>Brazilian</u> state of Rio Grande do Sul, where some areas have recorded almost 500mm of rain in the last 3 days. Stormy weather has also caused at least one fatality in the state.

Heavy rain has also affected parts of <u>Uruguay</u>, including in the cities of Durazno and Sarandí del Yí, where the overflowing Yí river has prompted evacuations.

Argentina

Corrientes and Santiago del Estero

According to <u>local media</u> 2 people died when their car was swept away by flooding from an overflowing river in Paso de los Libres, Corrientes. A young child died as a result of falling trees in Santiago del Estero.

Tucumán

Flooding has caused damage to homes and roads in eastern pats of Tucumán. Local medai say that more than 450 families were affected in the towns of Finca Mayo, Las Cejas, Los Ralos, San José, Garmendia and La Florida.

Chaco

In Chaco, the mayor of Resistencia has described the flooding situation as catastrophic.

Record rain fell on 08 January, when Resistencia recorded 224 mm of rain beating the previous record high of 205.9 mm set in March, 1994. Authorities said that 180mm of rain fell in just 80 minutes. Around 90 families have been evacuated with a further 3,500 needing assistance.

Santa Fe

In Santa Fe, over 80 people have evacuated their homes in areas close to the border with Santiago del Estero and Chaco. Local media said that towns affected include Gregoria Pérez de Denis, Santa Margarita and Villa Minetti.

Entre Rios

*E2. Provide a copy of the value-added products here. Please insert copies into this document as .jpeg or other small file formats:

(next page)





* mandatory

International Charter Space and Major Disasters

End User Feedback Report

End User	CENAD
Organization	CENAD
Charter Call ID #	685
Disaster Event	Flood
Disaster Location	Brazil, Rio Grande do Sul State.

Indicate your choice with an " $_X$ ". (VG: Very Good, G: Good, R: Regular, B: Bad) Please provide additional comments to explain your choices.

1a. Did you encounter difficulties in triggering the Charter?	Yes		No X	
Comments:				
1b. Did you use COS-2 to activate the Charter?	Yes X		No	
Comments:				
1c. If you used COS-2 to activate the Charter, did you find it easy to use?	Yes X		No	
Comments: there was a problem with AU registration, but it was	quickly sol	ved		
	i			
2. How was the communication with the Charter Officers and the Project Manager?	VG X	G	R	B
Comments: EU and PM are the same institution				
3. Did the delivered data and/or value-added products fulfill your request?	Yes X	Par	tly	No
Comments:				
4. Were the data and/or value-added products delivered in due time?	Yes X		No	
Comments:				
5. Were data and/or value-added products delivered in an appropriate way?	Yes X		No	
Comments:	:			
6. Were data and/or value-added products presented in an appropriate format?	Yes X		No	
Comments:				
7. Was the information content relevant and accurate?	Yes X		No	
Comments:				
8. How was the overall quality of the products delivered?	VG X	G	R	B

Comments:						
9. Did you use the data	for:					
Operations X	X Communication Planning Documentation X					tion X
Lessons Learned / Training X	Other	Not used	Not used			
10. Overall, the Charter	contribution to this emerg	gency was:	VG X	G	R	B
Comments:						
How could we improve the benefit of Charter activations for you?						