



# The Chelyabinsk Superbolide: we didn't see that one coming

*C. Marcos, R. Marcos*

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Yes, **we didn't see that one coming!** But... we learn from our mistakes!

What a neighborhood! Don't you hate bad neighbors? Our planet has plenty of those. We met one over central Russia at 9:20 local time on the morning of Friday, February 15, 2013. *The Chelyabinsk Superbolide* has now become a template to understand, manage and mitigate future impacts.

In six engaging chapters, the authors present an easy to read and updated introduction to the topic of asteroid impacts. Starting with a tour of the neighborhood, two case studies follow: the 2002 EM<sub>7</sub> incident and the Almahata Sitta event. Then, the largest impact on Earth in the 21<sup>st</sup> century, the Chelyabinsk event. But the sky is not falling and the next chapter shows that the current impact risk is not higher now than it was 25, 100 or 500 years ago. The final chapter focuses on the expected contribution of the Gaia mission to improve readiness against impacts.

The authors, who published one of the first solutions for the orbit of the parent body of the Chelyabinsk Superbolide, adopt a neutral point of view avoiding unrealistic alarmism and paying particular attention to what is being done to deal with this problem. Chelyabinsk-like events have happened in the past and they will repeat in the future. There is little doubt about that. **Humanity has coexisted with impacts for as long as we (or our records) can remember.** The risk has always been there but our ability to evaluate and face that risk is far better now and it will improve in the near future.

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**From reader reviews:**

**Guadalupe Winn:**

A lot of people always spent their free time to vacation as well as go to the outside with them family or their friend. Were you aware? Many a lot of people spent they free time just watching TV, as well as playing video games all day long. If you would like try to find a new activity that's look different you can read the book. It is really fun for you personally. If you enjoy the book that you read you can spent all day long to reading a guide. The book The Chelyabinsk Superbolide: we didn't see that one coming it is quite good to read. There are a lot of people who recommended this book. They were enjoying reading this book. If you did not have enough space to deliver this book you can buy the e-book. You can m0ore effortlessly to read this book from the smart phone. The price is not to fund but this book provides high quality.

**Maria Gardner:**

The book untitled The Chelyabinsk Superbolide: we didn't see that one coming contain a lot of information on the item. The writer explains your ex idea with easy method. The language is very easy to understand all the people, so do not worry, you can easy to read this. The book was published by famous author. The author gives you in the new era of literary works. It is possible to read this book because you can continue reading your smart phone, or product, so you can read the book inside anywhere and anytime. If you want to buy the e-book, you can available their official web-site along with order it. Have a nice go through.

**Breanne Gardner:**

In this era globalization it is important to someone to receive information. The information will make someone to understand the condition of the world. The condition of the world makes the information much easier to share. You can find a lot of references to get information example: internet, magazine, book, and soon. You will observe that now, a lot of publisher that will print many kinds of book. Often the book that recommended for your requirements is The Chelyabinsk Superbolide: we didn't see that one coming this guide consist a lot of the information from the condition of this world now. That book was represented how do the world has grown up. The terminology styles that writer make usage of to explain it is easy to understand. Often the writer made some study when he makes this book. This is why this book suitable all of you.

**Daryl Radford:**

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