

Анализ развития пароксизмального извержения вулкана Шивелуч 10–13 апреля 2023 года на основе данных различных спутниковых систем

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Шивелуч — наиболее активный вулкан Камчатки. Пароксизмальное эксплозивное извержение вулкана, разрушившее лавовый купол в кратере, происходило 10–13 апреля 2023 г. Согласно различным спутниковым данным, высота подъёма отдельных эруптивных облаков, вероятно, превышала 15 км над уровнем моря. Мощный цинклон, во власти которого находился весь п-ов Камчатка, вытягивал эруптивное облако на запад, поворачивал его на юг, растягивал на север и направлял на восток от вулкана. Динамика развития пепловых и аэрозольных облаков этого извержения отражена на анимационных картинках, выполненных по сериям снимков спутника Himawari-9 в информационной системе «Дистанционный мониторинг активности вулканов Камчатки и Курил» (ИС VolSatView) с 08:00 UTC (амсл. Coordinated Universal Time, всемирное координированное время) 10 апреля до 07:50 UTC 14 апреля (http://d33.infospace.ru/jr_d33/materials/2023v20n2/283-291/1683110898.webm) и данных спутника «Арктика-М» № 1 с 16:00 до 21:30 UTC 10 апреля (http://d33.infospace.ru/jr_d33/materials/2023v20n2/283-291/1683821166.webm). Отмечено, что эруптивная колонна во время извержения не была вертикальной: например, в начальный момент извержения 10 апреля в 13:20 UTC она отклонялась на северо-северо-восток, 11 апреля в 12:00 UTC — на северо-запад, 12 апреля в 07:00 UTC — на юго-запад. Во время пароксизмального извержения в атмосферу постоянно поступал диоксид серы, максимальное количество которого выделилось 10–11 апреля, связано это с эксплозивным разрушением лавового купола влк. Шивелуч. Пепловые облака вместе с аэрозольными 10–13 апреля были растянуты в полосу длиной более 3500 км с запада на северо-восток. 21–22 апреля аэрозольное облако Шивелуча отмечалось в районе Скандинавского п-ова. Общая площадь территории Камчатки и Тихого океана, на которой были зарегистрированы пепловые и аэрозольные шлейфы и облака в течение извержения 10–13 апреля, составляла около 3280 тыс. км². Пароксизмальное извержение Шивелуча относится к сублиннанскому типу, так как имеет высокие параметры подъёма пепловых облаков и продолжительности события. Для этого извержения VEI (амсл. Volcanic Explosivity Index — вулканический эксплозивный индекс) оценивается как 3–4. Детальное описание пароксизмального эксплозивного извержения вулкана и распространения пеплового облака было выполнено на основании изучения данных различных спутниковых систем (Himawari-9, NOAA-18/19, GOES-18, Terra, Aqua, JPSS-1, Suomi NPP, «Арктика-М» № 1 и др.) в ИС VolSatView (<http://kamchatka.volcanoes.smislav.ru>).

Ключевые слова: вулкан, Шивелуч, пароксизмальное эксплозивное извержение, спутниковый мониторинг, VolSatView, KVERT, Камчатка

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Введение

Шивелуч — наиболее активный вулкан Камчатки, расположенный в северной части Центральной Камчатской депрессии, в 50 км от пос. Ключи и в 450 км от г. Петропавловска-Камчатского (<http://www.kscnet.ru/ivs/kvert/volc?name=Sheveluch>). Это одно из крупнейших

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web the joker is a supervillain and the archenemy of batman first introduced in batman 1 spring 1940 he was originally a criminal mastermind with a devious sense of humor initially intended to serve as a one time appearances joker s instant popularity ensured that the character would continue

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web the joker is a serial killer and a super villain a dangerous madman who dresses like a clown and commits violent crimes he is often recognized as batman s greatest enemy living in and terrorizing gotham city although he

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web the joker is a supervillain appearing in american comic books published by dc comics the character was created by bill finger bob kane and jerry robinson and first appeared in the debut issue of the comic book batman on april 25 1940

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web the joker is a character portrayed by heath ledger and the main antagonist in christopher nolan s 2008 superhero film the dark knight based on the dc comics supervillain of the same name he is depicted as a psychopathic criminal mastermind with a warped sadistic sense of humor who defines himself by his conflict with the vigilante batman

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