

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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