

To: Cally Younger[cyounger@blm.gov]
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[GSENM Proclamation Objects Highlights 08.2017.docx](#)
[GSENM List of Historic and Scientific Objects of Interest.xlsx](#)
[GSENM publications as of April 2016 Final.xlsx](#)

Cally,

I apologize for giving you so much information so quickly, but I want you to have whatever source materials as may be of value to you.

We pulled a few more things together for you. The first attachment has short descriptions for all the objects and features listed in the proclamation (the list I sent Monday evening). The objects and features are not all shown on the briefing map I sent you along with the list. We can discuss with you which ones you would like to see on the map.

The second attachment is a list of the historic and scientific objects (geologic, paleontologic, biologic, etc) that have been identified on the monument along with their location and the source that identified the objects.

The third attachment is a bibliography of publications that address monument resources. I believe this is a supplement to the bibliography contained in appendix C of the Proclamation.

I will be sending you a map shortly that includes the WSAs, LWCs, Oil and Gas and Coal leases in 1996 (this is a proxy for mineral potential, as we are still looking for a good source). We can't really put paleo or cultural information on this overall map because it will get to complicated to read.

I will be tied up at the Utah Recreation summit until about 4 pm your time. My cell is dead so I will be calling you as soon as I get back to the office. I could have my GIS person on if that would help. Thanks you. ed

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Grand Staircase –Escalante National Monument

Highlighted Objects & Research

Understanding the History of Humans In the Region

Hole-in-the-Rock Trail - Significant site in Utah History associated with the 1879-1880 mission that took the first permanent settlers to San Juan County from many southern Utah communities. The trail and associated road building is likely one of the best examples of pioneer spirit including ingenuity, tenacity, and courage. The site is listed on the National Register of Historic Places (in 1980). A 2017 Ethnographic Landscape Report was prepared by NPS leading towards considering the trail and its associated places (such as Hole-in-the-Rock, Dance Hall Rock, and the many temporary camps) as a Traditional Cultural Property.

Dance Hall Rock – A large natural bedrock exposure that is a major landmark along the Hole-in-the-Rock Trail. This location was used by the Hole-in-the-Rock expedition as a social focal point during the construction of the trail through Hole-in-the-Rock and down to the Colorado River. Dances were held at this location during this period in 1879-1880 while pioneers were camped a mile away at Forty Mile Spring. There are numerous inscriptions of the members of the expedition carved into this landform.

Old Paria Townsite – While early settlement occurred in the region from 1869-1885, people lived in the area until the mid-1930s. The landscape today is relatively unchanged from modern development. The major alteration of the landscape is a result of the flooding of the Paria River through the years. This helps illustrate the history of the area and why settlement failed.

Southern Paiute and Navajo Peoples – Used this area extensively and have reservations near by. In 1934 Isabel Kelly wrote a Southern Paiute ethnography of the area describing Southern Paiute lifeways in this area including areas around Kanab, Kitchen Corral Canyon, and the Kaiparowits. This publication has been a guiding reference for current graduate student research in ethnobotany and Native American spring/water use on the Monument. Southern Paiute people still use many places on the Monument for collection of natural resources. There is some use of the area by Navajo peoples including a 1860s camp in vicinity of White House Campground. This general area, including Catstair Canyon is still used as by Navajo peoples for plant collection.

Mormon Exploration and Settlement - Important to the settlement of this area and to Utah history, there are numerous homesteads, ranches, and early settlements located on the Monument and in the surrounding area. Additionally, there are a number of wagon trails and early automobile trails connecting these places as well as line camps, cattle trails, corrals, cabins, rock houses, and other manifestations related to the early livestock grazing that occurred in association with settlement.

Historic Trails, Inscriptions – Hole-in-the-Rock Trail (see above) is listed on the National Register of Historic Places. The Old Spanish Trail is a National Historic Trail that roughly parallels Hwy 89 on the Grand Staircase. Many other trails, including the Boulder Mail Trail from Escalante to Boulder and Old Paria Road from Johnson Canyon to Paria River, are associated with Mormon exploration and settlement.

Opportunities for Archaeological Research – Academic research has occurred in this area since perhaps around 1890. University of Utah did a lot of research on the Kaiparowits and Escalante Canyons area associated with the construction of Glen Canyon Dam in the 1950s and 60s.

Steward did early research in the Anasazi area of the Vermillion Cliffs in the 1930s. BYU has done a lot of research in the Escalante Region in the late 1990s and early 2000s. Current graduate research within the past 5 years has included paleoecological analysis of the both the Grand Staircase and Kaiparowits regions, rock art research, and ethnobotanical studies. Research potential and opportunities are of plenty.

Fremont-Anasazi Occupation – Fremont occupation occurred along the Escalante River corridor and Potato Valley (Escalante area) and continued onto the Kaiparowits and Aquarius Plateaus from 300 BC to circa 1300 AD. Anasazi occupations (500 BC to 1300 AD) occurred on the Grand Staircase along the Vermillion Cliffs and up canyons (Johnson Canyon, Kitchen Corral Canyon, Paria River, Wahweap Creek, etc) as well as certain places on the Kaiparowits Plateau. Interactions between the Fremont and the Anasazi occurred on the Kaiparowits Plateau (particularly Fifty Mile mountain and the Straight Cliffs areas and Escalante Canyon, and probably also around Wahweap Creek (more research needs to be done). Fremont and especially Anasazi had large populations of people living in this area particularly from 900 AD to 1300 AD.

Geologic Structures, Stratigraphy, and Erosional Features

The Grand Staircase (Paleozoic) – An unbroken, well-exposed, sequence of cliffs and plateaus of through Tertiary sedimentary rocks that rise 5,500 feet from the Chocolate Cliffs to the rim of Bryce Canyon. *"The most colorful exposed geologic section in the world."* - H.H. Doelling. This physiographic region was the centerpiece of classic geological studies by Powell, Stanton, Dutton, Walcott, Thompson, and others and has become symbolic of early geologic exploration on the Colorado Plateau (Titus, 2013). The Vermillion Cliffs in particular contain a rich Late Triassic-through early Jurassic fossil record deposited on the eastern shores of ancient Lake Dixie. Petrified wood, fish remains, dinosaur and other reptilian bones and fossil footprints are common (Fox and Joyce, 200?). One site in particular, the Flag Point tracksite (42KaNNNN) is probably worthy of world heritage designation as the fossil tracks are in direct association with a unique Native American rock art panel depicting dinosaur tracks. The area has become a popular ATV riding destination as it contains a segment of the Great Western Trail and also numerous trails along the Wygaret and Skutumpah terraces. Hiking is also popular in the particularly deep and long slot canyons hosted in the Navajo Sandstone such as Willis Creek, Bull Valley Gorge, and Lick Wash.

The Upper Paria Region – Rugged canyons, natural arches, and "hydrothermal-collapse" pipes and dikes. The Upper Paria River region contains more of the same geologic and scenic features found inside Kodachrome Basin State Park. The middle Jurassic rocks (Carmel and Entrada formations) exposed there are particularly colorful and varied. The collapse features are part of a fascinating story of geologic catastrophe, being triggered by either a massive earthquake or asteroid impact.

White Cliffs – Exposure of more than 1,500 vertical feet of eolian (wind-deposited), Jurassic Navajo Sandstone. This formation is world renowned for its scenic beauty. It is actually the remains of the largest sand sea (erg) that ever existed and thus is geologically unique. However, the formation is widespread on the Colorado Plateau region and is the centerpiece of such scenic wonders such as Zion, Arches, and Capitol Reef national parks.

Vermilion Cliffs – Jurassic Moenave and Kayenta Formations of near-shore marine origins. The Moenave and Kayenta formations are actually river, dune and lake deposits the accumulated far from any marine shoreline. The upper portion of this sequence is a common arch former and thus of scenic value, while the cliffs themselves are particularly scenic with their deep red hues. The layers date to the early Jurassic and record a major extinction and the ascendancy of the dinosaurs in North American ecosystems. The most common fossils are fossil footprints and invertebrate traces.

Kaiparowits Plateau – Cretaceous, coal-bearing deltaic sequences deposited in a major depositional basin. Part of the coal field is burning underground from naturally ignited fires. The Burning Hills are evidence of past fires. The vast, wild, rugged badlands scenery of the Kaiparowits Plateau is comparable to that of the famous Bisti Badlands of New Mexico, both in character and color, but with more topographic relief. Overall the region is characterized by gray colors and towering cliffs separating tiers of fossil-rich badlands (see below under Paleontological Resources). Coal resources are mostly confined to the eastern half, where the conditions were more persistently swampy. In these areas, coal fires such as are found in the Burning hills provide a rich veneer of red and orange color where the rocks have oxidized. Most of the formations locally weather into intricate scenic hoodoos. Several routes through the region such as the Smoky Mountain road, Collett Canyon, and Croton Canyon are popular with OHV users. The “otherworldly” scenery of the Kaiparowits is also popular with advertisers and film companies and several large budget movies such as “Planet of the Apes,” “John Carter of Mars,” “The Outlaw Josey Wales,” and “Evolution,” have been filmed in and around the Kaiparowits over the last four decades. Although typically not a “hiking destination” the ever increasingly popular Heyduke Trail now traverses the northern half of the Kaiparowits Plateau.

Straight Cliffs – These cliffs are a series of stacked, Cretaceous barrier islands. The Straight Cliffs are so named because the cliffs themselves mimic the Cretaceous shoreline. UPDATE: The Straight Cliffs topographic feature is formed in the Straight Cliffs Formation of Cretaceous age. The scenic cliffs are a prominent regional land form and define the eastern edge of the Kaiparowits Plateau. Some of the most significant archeology in the entire monument is found on its southern end.

The Cockscomb – An impressive, erosional “hogback” developed along the East Kaibab monocline. The East Kaibab monocline is the steeply dipping east limb of the Kaibab anticline. The Cockscomb is one of the Monument’s true scenic wonders. It is a large scale ridge formed by the resistant geologic layers caught up in the large scale folding of the East Kaibab Monocline, which continues into Arizona and defines the east edge of the Grand Canyon. The stark uplift, broad exposures of multicolored rocks and intricate canyons carved into it create a feature comparable in wonder and beauty to that of Capitol Reef National Park, Comb Ridge, or The San Rafael Swell. It is extremely popular with tourists, many of which drive the busy Cottonwood Canyon road. Popular destinations include the Paria Townsite and Josey Wales movie set, Hackberry Canyon, The Box, Cat Stair Canyon, The Squeeze, the Cottonwood Narrows (most accessible slot canyon in the Monument), Grosvenor Arch, The Gut, and the Brigham Plain road.

Circle Cliffs – A breached anticline which exposes sedimentary rocks of the Triassic Chinle and Moenkopi formations that contain large, unbroken petrified logs, uranium minerals, and bitumen deposits. The Circle Cliffs contains spectacular Colorado Plateau scenery of painted-desert badlands and sandstone cliffs. Numerous Cold War era uranium mines that were hosted in the Shinarump Member of the Chinle Formation are popular as tourist destinations. Hiking is popular in many of the canyons that lead into the Escalante River drainage. Rock climbing has become a popular activity on vertical exposures of the Wingate Sandstone, especially along Long Canyon on the Burr Trail.

Waterpocket Fold – A long, sinuous geologic fold and erosional expression, similar to The Cockscomb, comprising the east flank of the Circle Cliffs anticline. The Waterpocket Fold is the same exact feature found in Capitol Reef National Park, with which GSENM shares a common boundary. Its world class scenery and rugged remoteness are popular with wilderness seekers.

Natural Arches and Bridges – Escalante Natural Bridge, Grosvenor Arch, Starlight Arch, Woolsey Arch, Window Arch, Boyington Arch, Phipps Arch, Sunset Arch. The Monument’s arches and natural bridges, with Grosvenor Arch and those exposed along the Escalante River corridor are continually increasing in popularity as tourist destinations. Grosvenor is a rare double arch which towers over 150 feet high.

Canyon Exposures – Vivid colors of the Escalante Canyons region and elsewhere cause by intense erosion and downcutting (no opportunity for soil forming) of the many Mesozoic sedimentary rocks units. These exposures provide geologists with unobscured views of Earth history. The Escalante Canyons region is the single most visited area within GSENM. An abundance of slot canyons, towering cliffs, scenic red rocks, and lush riparian areas combine to make it one of the most beautiful and popular areas in the entire region. Recent geological studies in the area have sought to establish the rates of erosion, and the chemical and migration history of iron minerals that provide the color to the rocks (Chan and Beitler NNNN).

World-Class Paleontological Sites

Circle Cliffs – Unbroken petrified logs up to 30 feet in length are present in the Petrified Forest Member of the Chinle Formation. Survey work by Yale between 2002-2006 documented a number of important vertebrate fossil sites in the Chinle Formation in the Circle Cliffs region including a nearly complete articulated rare reptile called *Poposaurus* (<http://peabody.yale.edu/support/peabody-finds-poposaurus>). The region has not been the focus of much additional survey work since 2006 and numerous additional sites probably still await discovery.

Kaiparowits Plateau – One of the best, most continuous records of Late Cretaceous life in the world. Fossils include mollusks, reptiles (turtles, crocodilians, lizards), dinosaurs, fishes, and mammals. The Kaiparowits rocks contain the only evidence, in our hemisphere, of terrestrial vertebrate fauna from the Cenomanian through Santonian (Late Cretaceous) ages

The Cretaceous age fossil resources of the Kaiparowits Plateau have exceeded the Proclamation's expectations both in terms of abundance and scientific significance. Almost 4,000 new fossil sites have been documented by Museum and University crews under the coordination of the Monument's paleontology program since 2000. All formations have yielded vertebrate fossils, but Tropic Shale, Wahweap, and Kaiparowits fossils have been most spectacular and significant. Scientific work on these fossils has resulted in the publication of 12 new species of dinosaurs in the last 12 years, a pace on par with any other dinosaur producing region in North America. A Kaiparowits specific conference on late Cretaceous paleontology was held in 2009, which resulted in the publication of a 625 page book called "At the Top of the Grand Staircase: The Late Cretaceous of Southern Utah" (Titus and Loewen, 2013). Because of its unique ancient geography and environments, the region remains the most complete, most fossiliferous Late Cretaceous terrestrial fossil record in the western hemisphere. They were also recently showcased during an international meeting on vertebrate paleontology held in Salt Lake City (Titus, Eaton, and Sertich, 2017).

The Cretaceous formations of the Kaiparowits Plateau are, in ascending order with their significance summarized:

- **Dakota Formation** – Important early mammal and reptile fossils. Contains one of the only terrestrial vertebrate fossil records in North America. The Bulldog Bench and Rimrocks (lower Cottonwood Canyon) areas are especially rich. Larger remains are rare, but intact turtle shells, and pieces of crocodiles are fairly common. Dinosaurs are still only known by tooth records. The mammal, fish, amphibian and lizard faunas were published in Titus and Loewen (2013). Surveys by Weber State and the Natural History Museum of Utah are ongoing.
- **Tropic Shale Formation** – Best marine reptile record from the southern Interior Seaway. Inventory work has shown that a truly remarkable marine reptile record is in the Tropic. Five species of plesiosaur (whale-size marine reptiles) and North America's oldest mosasaur

were found between 2000 and 2010. This is the highest diversity known for the period in North America. Many acres remain to be surveyed, particularly in the Croton Canyon and Steer Canyon areas.

- **Straight Cliffs Formation** – Tippet Canyon member-The Tippet Canyon has been intermittently surveyed in the southwestern portion of the Kaiparowits Plateau where it contains fossil sharks teeth, turtle shell and rare dinosaur remains. It is mostly marine in the eastern half of the Kaiparowits, where it lacks an abundance of vertebrate fossils. Spectacular logs of petrified wood occur east of Cottonwood Canyon. No new animals have been named from the unit.
- **Smoky Hollow and John Henry members** -Two small dinosaur bonebeds were found in the Smoky Hollow member in 2009 during survey work in the southwestern Kaiparowits Plateau. These are some of the only records of Turonian dinosaur skeletons in Utah. The John Henry member has yielded associated tyrannosaur material and other rare dinosaur finds in the same area. Dinosaur remains from the time of the John Henry Member are extremely rare throughout the whole world and any material is considered significant. No dinosaurs have been named from the Straight Cliffs formation thus far. The mammal, turtle, fish and lizard faunas of these two units was published in Titus and Loewen (2013).
- **Wahweap Formation** – The exact age of the Wahweap Formation was unknown when the Monument was established. Research has since shown that the unit dates to between 78 and 81 million years ago. The most fossiliferous part of the formation (middle shale member) has produced a spectacular dinosaur fauna that is older than similar faunas found in Montana and Canada (Titus, Eaton, and Sertich, 2017). In general, the western outcrops are more fossiliferous than those in the east. Five new species of dinosaurs (*Diabloceratops eatoni*, *Machairoceratops cronusi*, *Adelolophus hutchisoni*, *Acristavus gaglarsoni*, *Lythronax argestes*) have been named, with two more and a giant crocodile currently being researched. A rich fossil record has yielded important specimens of everything from fish to mammals and plants (Titus and Loewen, 2013). It is one of the most complete known middle Campanian ecosystems preserved in North America and gives key insights into the evolution of later, more famous Campanian species. Survey work in the formation is still in its early stages, with only an estimated 10% of available exposures having been covered.
- **Kaiparowits Formation** – This formation has long been known to be the most fossiliferous formation in the region and it has been the focus of most recent survey work. New species of dinosaurs were discovered the very first field season (2000) by crews from the Natural History Museum of Utah and almost every year since. In total seven new species (*Hagryphus*, *Gryposaurus monumentensis*, *Nasutoceratops titusi*, *Kosmoceratops richardsoni*, *Utahceratops gettyi*, *Teratophoneus currie*, *Talos sampsoni*) have been published. A similar number will be published in the next few years, making it one of the most scientifically productive dinosaur resources in North America. Similar age beds in Canada have also provided a complete glimpse of this time period, but the Kaiparowits Formation is the most complete Late Campanian fossil ecosystem in the southern USA. Some of the literally world class finds include mass death assemblages of turtles, crocodiles and dinosaurs preserved with soft tissue and eggs; an entire tyrannosaur family killed by fire (only multi individual tyrannosaur site in the southern USA); an nearly complete articulated tyrannosaur (the only one over found in the southern USA); and a fossil forest floor preserved with all of its plants in upright, 3D position. It is almost impossible to overstate the scientific importance of the this particular formation and its fossil content. Approximately 30% of the formation has been surveyed as of 2017.

Monument Wide – Although not specifically noted in the Proclamation, many opportunities for paleontological research also exist in formations of the Permian, Triassic, Jurassic, and Tertiary periods.

Opportunities for Biological Research and Discovery

Five Life Zones – The life zones range from low-lying desert to coniferous forests containing a blend of warm and cold desert floras. This rich floristic region contains a large number of endemic species. Because of its rugged remoteness, the Monument contains many isolated biologic communities (hanging gardens, tinajas, rock crevices, canyon bottoms, dunal packet communities).

Diverse Soils – An array of strata (parent material), exposed in many places, that give rise to diverse soils that support equally diverse plant communities and their pollinators. These communities offer opportunities to study plant spec/at/on and community dynamics.

Relic Vegetation – Isolated because of topography, many areas contain relatively undisturbed plant communities - some of which may have existed since the Pleistocene. No Mans Mesa Is an example where pinyon-juniper communities contain trees as much as 1,400 years old.

Cryptobiotic Crusts -- These crusts contain unique microbiotic communities that stabilize the highly erodible so/ls of the region.

Packrat Middens -- Provide insight into climate and vegetation over the past 25,000 years.

Livestock Grazing – The Monument has partnered with Utah State University for livestock grazing research opportunities.

Wildlife Diversity – Besides mountain lion, black bear, mule deer, elk, and desert bighorn sheep, the Monument Is home to over 200 species of birds. Wildlife concentrates mainly in the riparian zones of the Paria and Escalante River drainages.

Citations

Titus, A. L. and Loewen, M.A. 2013. At the top of the Grand Staircase, the Late Cretaceous of Southern Utah. Indiana University Press, Bloomington, 625 pages.

Titus, A.L., Eaton, J.G., and Sertich, J., 2016, Late Cretaceous stratigraphy and vertebrate faunas of the Markagunt, Paunsaugunt, and Kaiparowits Plateaus, southern Utah: Geology of the Intermountain West, v. 3, p. 229–291.

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	12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	A	B	C	D	E	F	G
1		Step 4 - value increasing by 1					
2	Step 5 - threshold		Step 6 - value increasing by 1		Step 7 - value increasing by 1	Step 8 - value increasing by 1	Step 9 - value increasing by 1
3	Step 10 - threshold	Step 11 - value increasing by 1	Step 12 - value increasing by 1	Step 13 - value increasing by 1	Step 14 - value increasing by 1	Step 15 - value increasing by 1	Step 16 - value increasing by 1
4	Step 17 - threshold	Step 18 - value increasing by 1	Step 19 - value increasing by 1	Step 20 - value increasing by 1	Step 21 - value increasing by 1	Step 22 - value increasing by 1	Step 23 - value increasing by 1
5	Step 24 - threshold	Step 25 - value increasing by 1	Step 26 - value increasing by 1	Step 27 - value increasing by 1	Step 28 - value increasing by 1	Step 29 - value increasing by 1	Step 30 - value increasing by 1
6	Step 31 - threshold	Step 32 - value increasing by 1	Step 33 - value increasing by 1	Step 34 - value increasing by 1	Step 35 - value increasing by 1	Step 36 - value increasing by 1	Step 37 - value increasing by 1
7	Step 38 - threshold	Step 39 - value increasing by 1	Step 40 - value increasing by 1	Step 41 - value increasing by 1	Step 42 - value increasing by 1	Step 43 - value increasing by 1	Step 44 - value increasing by 1
8	Step 45 - threshold	Step 46 - value increasing by 1	Step 47 - value increasing by 1	Step 48 - value increasing by 1	Step 49 - value increasing by 1	Step 50 - value increasing by 1	Step 51 - value increasing by 1
9	Step 52 - threshold	Step 53 - value increasing by 1	Step 54 - value increasing by 1	Step 55 - value increasing by 1	Step 56 - value increasing by 1	Step 57 - value increasing by 1	Step 58 - value increasing by 1
10	Step 59 - threshold	Step 60 - value increasing by 1	Step 61 - value increasing by 1	Step 62 - value increasing by 1	Step 63 - value increasing by 1	Step 64 - value increasing by 1	Step 65 - value increasing by 1
11	Step 66 - threshold	Step 67 - value increasing by 1	Step 68 - value increasing by 1	Step 69 - value increasing by 1	Step 70 - value increasing by 1	Step 71 - value increasing by 1	Step 72 - value increasing by 1
12	Step 73 - threshold	Step 74 - value increasing by 1	Step 75 - value increasing by 1	Step 76 - value increasing by 1	Step 77 - value increasing by 1	Step 78 - value increasing by 1	Step 79 - value increasing by 1
13	Step 80 - threshold	Step 81 - value increasing by 1	Step 82 - value increasing by 1	Step 83 - value increasing by 1	Step 84 - value increasing by 1	Step 85 - value increasing by 1	Step 86 - value increasing by 1
14	Step 87 - threshold	Step 88 - value increasing by 1	Step 89 - value increasing by 1	Step 90 - value increasing by 1	Step 91 - value increasing by 1	Step 92 - value increasing by 1	Step 93 - value increasing by 1
15	Step 94 - threshold	Step 95 - value increasing by 1	Step 96 - value increasing by 1	Step 97 - value increasing by 1	Step 98 - value increasing by 1	Step 99 - value increasing by 1	Step 100 - value increasing by 1
16	Step 101 - threshold	Step 102 - value increasing by 1	Step 103 - value increasing by 1	Step 104 - value increasing by 1	Step 105 - value increasing by 1	Step 106 - value increasing by 1	Step 107 - value increasing by 1
17	Step 108 - threshold	Step 109 - value increasing by 1	Step 110 - value increasing by 1	Step 111 - value increasing by 1	Step 112 - value increasing by 1	Step 113 - value increasing by 1	Step 114 - value increasing by 1
18	Step 115 - threshold	Step 116 - value increasing by 1	Step 117 - value increasing by 1	Step 118 - value increasing by 1	Step 119 - value increasing by 1	Step 120 - value increasing by 1	Step 121 - value increasing by 1
19	Step 122 - threshold	Step 123 - value increasing by 1	Step 124 - value increasing by 1	Step 125 - value increasing by 1	Step 126 - value increasing by 1	Step 127 - value increasing by 1	Step 128 - value increasing by 1
20	Step 129 - threshold	Step 130 - value increasing by 1	Step 131 - value increasing by 1	Step 132 - value increasing by 1	Step 133 - value increasing by 1	Step 134 - value increasing by 1	Step 135 - value increasing by 1
21	Step 136 - threshold	Step 137 - value increasing by 1	Step 138 - value increasing by 1	Step 139 - value increasing by 1	Step 140 - value increasing by 1	Step 141 - value increasing by 1	Step 142 - value increasing by 1
22	Step 143 - threshold	Step 144 - value increasing by 1	Step 145 - value increasing by 1	Step 146 - value increasing by 1	Step 147 - value increasing by 1	Step 148 - value increasing by 1	Step 149 - value increasing by 1
23	Step 150 - threshold	Step 151 - value increasing by 1	Step 152 - value increasing by 1	Step 153 - value increasing by 1	Step 154 - value increasing by 1	Step 155 - value increasing by 1	Step 156 - value increasing by 1
24	Step 157 - threshold	Step 158 - value increasing by 1	Step 159 - value increasing by 1	Step 160 - value increasing by 1	Step 161 - value increasing by 1	Step 162 - value increasing by 1	Step 163 - value increasing by 1
25	Step 164 - threshold	Step 165 - value increasing by 1	Step 166 - value increasing by 1	Step 167 - value increasing by 1	Step 168 - value increasing by 1	Step 169 - value increasing by 1	Step 170 - value increasing by 1
26	Step 171 - threshold	Step 172 - value increasing by 1	Step 173 - value increasing by 1	Step 174 - value increasing by 1	Step 175 - value increasing by 1	Step 176 - value increasing by 1	Step 177 - value increasing by 1
27	Step 178 - threshold	Step 179 - value increasing by 1	Step 180 - value increasing by 1	Step 181 - value increasing by 1	Step 182 - value increasing by 1	Step 183 - value increasing by 1	Step 184 - value increasing by 1
28	Step 185 - threshold	Step 186 - value increasing by 1	Step 187 - value increasing by 1	Step 188 - value increasing by 1	Step 189 - value increasing by 1	Step 190 - value increasing by 1	Step 191 - value increasing by 1
29	Step 192 - threshold	Step 193 - value increasing by 1	Step 194 - value increasing by 1	Step 195 - value increasing by 1	Step 196 - value increasing by 1	Step 197 - value increasing by 1	Step 198 - value increasing by 1
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32	Step 213 - threshold	Step 214 - value increasing by 1	Step 215 - value increasing by 1	Step 216 - value increasing by 1	Step 217 - value increasing by 1	Step 218 - value increasing by 1	Step 219 - value increasing by 1
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91	Step 626 - threshold	Step 627 - value increasing by 1	Step 628 - value increasing by 1	Step 629 - value increasing by 1	Step 630 - value increasing by 1	Step 631 - value increasing by 1	Step 632 - value increasing by 1
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List of Historic and Scientific Objects of Interest
GSDNM 8-30-17

DOI-2021-03 01076

List of Historic and Scientific Objects of Interest
GSDNM 8-30-17[illegible]

List of Historic and Scientific Objects of Interest
GSDNM 8-30-17[illegible]

DOI-2021-03 01079

[illegible]

List of Historic and Scientific Objects of Interest
GSDN9-3547

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List of Historic and Scientific Objects of Interest
GSDNM 8-30-17DOI-2021-03 01081

List of Historic and Scientific Objects of Interest
GSDNM 8-30-17

[illegible]

List of Historic and Scientific Objects of Interest
GSDNM 8-30-17[illegible]

List of Historic and Scientific Objects of Interest
GSDNM 8-30-17

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