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226 **On the Relationship Between Transit Time of ICMEs and Strength of the Initiated Geomagnetic Storms**

Chertok I.M.

Solar Physics, v. 295, No. 6, Id. 74, 2020

DOI: 10.1007/s11207-020-01640-0

<https://link.springer.com/content/pdf/10.1007/s11207-020-01640-0.pdf>

<https://arxiv.org/ftp/arxiv/papers/2004/2004.14894.pdf>

225 **Peculiar Solar Sources and Geospace Disturbances on 20–26 August 2018.**

Abunin A.A., Abunina M.A., Belov A.V., Chertok I.M.

Solar Physics, v. 295, No. 1, Id. 7, 2020

DOI: 10.1007/s11207-019-1574-8

<https://link.springer.com/content/pdf/10.1007/s11207-019-1574-8.pdf>

<https://arxiv.org/abs/1912.08153>

224 **Analysis of Solar Proton Flares of September 2017 by their Radio Bursts**

Chertok, I. M.

Solar-Terrestrial Physics - the Current State and Prospects. Vol. 2, Astronomy-2018 (XIII Congress of the International Public Organization "Astronomical Society"). Conference Abstracts, Moscow: IZMIRAN, 2018. p. 270-273

DOI: 10.31361/eass.2018-2.068

http://www.sai.msu.su/EAAS/rus/confs/EAAS_XIII/vv2.pdf

223 **Analysis of Space Weather Distrubances from Powerful Solar Eruptive Flares of September 2017**

Abunin, A. A.; Belov, A. V.; Chertok, I. M.

Solar-Terrestrial Physics - the Current State and Prospects. Vol. 2, Astronomy-2018 (XIII Congress of the International Public Organization "Astronomical Society"). Conference Abstracts, Moscow: IZMIRAN, 2018. p. 15-18

DOI: 10.31361/eass.2018-2.003

http://www.sai.msu.su/EAAS/rus/confs/EAAS_XIII/vv2.pdf

222 **Solar Eruptions, Forbush Decreases and Geomagnetic Disturbances from an Outstanding Active Region 12673.**

Chertok I.M., Belov A.V., Abunin A.A.

Space Weather, v. 16, Issue10, pp. 1549-1560, 2018. DOI: 10.1029/2018SW001899

<https://arxiv.org/ftp/arxiv/papers/1809/1809.07961.pdf>

<https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2018SW001899>

221	<input type="checkbox"/>	2018Ge&Ae..58..457C	1.000	07/2018	A	E	X	R	U	
		Chertok, I. M.							Diagnostic Analysis of the Solar Proton Flares of September 2017 by Their Radio Bursts	
220	<input type="checkbox"/>	2018SoPh..293...43C	1.000	03/2018	A	E				
		Chertok, I. M.; Belov, A. V.							Erratum: Correction to: Long- and Mid-Term Variations of the Soft X-ray Flare Character in Solar Cycles	
219	<input type="checkbox"/>	2018RNAAS...2a..20C	1.000	01/2018	A	E	X	R	U	
		Chertok, Ilya M.							Powerful Solar Flares of 2017 September: Correspondence between Parameters of Microwave Bursts and Proton Fluxes near Earth	
218	<input type="checkbox"/>	2017SoPh..292..144C	1.000	10/2017	A	E	X	R	C	U
		Chertok, I. M.; Belov, A. V.								Long- and Mid-Term Variations of the Soft X-ray Flare Type in Solar Cycles
217	<input type="checkbox"/>	2017STP.....3c...3G	1.000	09/2017	A	E		R	U	
		Grechnev, Victor; Kiselev, Valentin; Meshalkina, Nataliya; Chertok, Ilya								Correlation of near-Earth proton enhancements >100 MeV with parameters of solar microwave bursts

216	<input type="checkbox"/>	2017SoPh..292...62C	1.00	04/2017	A	E	X	R	C	U
		Chertok, I. M.; Grechnev, V. V.; Abunin, A. A.	An Early Diagnostics of the Geoeffectiveness of Solar Eruptions from Photospheric Magnetic Flux Observations: The Transition from SOHO to SDO							
215	<input type="checkbox"/>	2015SoPh..290.2827G	1.00	10/20	A	E	X	R	C	
		Grechnev, V. V.; Kiselev, V. I.; Meshalkina, N. S.; Chertok, I. M.	0	15		U	Relations Between Microwave Bursts and Near-Earth High-Energy Proton Enhancements and Their Origin			
214	<input type="checkbox"/>	2015SoPh..290.1947C	1.00	07/20	A	E	X	R	C	
		Chertok, I. M.; Belov, A. V.; Grechnev, V. V.	0	15		U	A Simple Way to Estimate the Soft X-ray Class of Far-Side Solar Flares Observed with STEREO/EUVI			
213	<input type="checkbox"/>	2015SoPh..290..627C	1.00	02/20	A	E	X	R	C	
		Chertok, I. M.; Abunina, M. A.; Abunin, A. A.; Belov, A. V.; Grechnev, V. V.	0	15		U	Relationship Between the Magnetic Flux of Solar Eruptions and the Ap Index of Geomagnetic Storms			
212	<input type="checkbox"/>	2015SoPh..290..129G	1.00	01/20	A	E	X	R	C	
		Grechnev, V. V.; Uralov, A. M.; Kuzmenko, I. V.; Kochanov, A. A.; Chertok, I. M.; Kalashnikov, S. S.	0	15		U	Responsibility of a Filament Eruption for the Initiation of a Flare, CME, and Blast Wave, and its Possible Transformation into a Bow Shock			
211	<input type="checkbox"/>	2014SoPh..289.4653G	1.00	12/20	A	E	X	R	C	
		Grechnev, V. V.; Uralov, A. M.; Chertok, I. M.; Belov, A. V.; Filippov, B. P.; Slemzin, V. A.; Jackson, B. V.	0	14		O	U	A Challenging Solar Eruptive Event of 18 November 2003 and the Causes of the 20 November Geomagnetic		

Superstorm. IV. Unusual Magnetic Cloud and Overall Scenario

210	<input type="checkbox"/>	2014SoPh..289.3747U	1.00 10/20 0 14	A O	E U	X	R C	Uralov, A. M.; Grechnev, V. V.; Rudenko, G. V.; Myshyakov, I. I.; Chertok, I. M.; Filippov, B. P.; Slemzin, V. A.	A Challenging Solar Eruptive Event of 18 November 2003 and the Causes of the 20 November Geomagnetic Superstorm. III. Catastrophe of the Eruptive Filament at a Magnetic Null Point and Formation of an Opposite-Handedness CME
209	<input type="checkbox"/>	2014SoPh..289.1279G	1.00 04/20 0 14	A O	E U	X	R C	Grechnev, V. V.; Uralov, A. M.; Chertok, I. M.; Slemzin, V. A.; Filippov, B. P.; Egorov, Y. I.; Fainshtein, V. G.; Afanasyev, A. N.; Prestage, N. P.; Temmer, M.	A Challenging Solar Eruptive Event of 18 November 2003 and the Causes of the 20 November Geomagnetic Superstorm. II. CMEs, Shock Waves, and Drifting Radio Bursts
208	<input type="checkbox"/>	2014SoPh..289..289G	1.00 01/20 0 14	A O	E U	X	R C	Grechnev, V. V.; Uralov, A. M.; Slemzin, V. A.; Chertok, I. M.; Filippov, B. P.; Rudenko, G. V.; Temmer, M.	A Challenging Solar Eruptive Event of 18 November 2003 and the Causes of the 20 November Geomagnetic Superstorm. I. Unusual History of an Eruptive Filament
207	<input type="checkbox"/>	2013PASJ...65S..10G	1.00 12/20 0 13	A	E F U	X	R C	Grechnev, Victor V.; Kuz'menko, Irina V.; Uralov, Arkadiy M.; Chertok, Ilya M.; Kochanov, Alexey A.	Microwave Negative Bursts as Indications of Reconnection Between Eruptive Filaments and a Large-Scale Coronal Magnetic Environment
206	<input type="checkbox"/>	2013PASJ...65S...4G	1.00 12/20 0 13	A	E F U	X	R C	Grechnev, Victor V.; Meshalkina, Nataliya S.; Chertok, Ilya M.;	Relations between Strong High-Frequency Microwave

Kiselev, Valentin I.		Bursts and Proton Events			
205	<input type="checkbox"/> 2013BRASP..77..483K Kurt, V. G.; Yushkov, B. Yu.; Belov, A. V.; Chertok, I. M.; Grechnev, V. V.	1.00 05/20 0 13	E		R
		Determining the instant of acceleration of protons responsible for the onset of ground-level enhancements of solar cosmic rays			
204	<input type="checkbox"/> 2013JPhCS.409a2151K Kurt, V.; Yushkov, B.; Belov, A.; Chertok, I.; Grechnev, V.	1.00 02/20 0 13	A	E	R C
		Determination of Acceleration Time of Protons Responsible for the GLE Onset			
203	<input type="checkbox"/> 2013JPhCS.409a2150C Chertok, I. M.; Abunin, A. A.; Belov, A. V.; Grechnev, V. V.	1.00 02/20 0 13	A	E	R
		Dependence of Forbush-decrease characteristics on parameters of solar eruptions			
202	<input type="checkbox"/> 2013SoPh..282..175C Chertok, I. M.; Grechnev, V. V.; Belov, A. V.; Abunin, A. A.	1.00 01/20 0 13	A	E U	X R C
		Magnetic Flux of EUV Arcade and Dimming Regions as a Relevant Parameter for Early Diagnostics of Solar Eruptions - Sources of Non-recurrent Geomagnetic Storms and Forbush Decreases			
201	<input type="checkbox"/> 2012esrs.book..155G Grechnev, V. V.; Afanasyev, A. N.; Uralov, A. M.; Chertok, I. M.; Eselevich, M. V.; Eselevich, V. G.; Rudenko, G. V.; Kubo, Y.	1.00 00/20 0 12	A	E	T
		Coronal Shock Waves, EUV Waves, and Their Relation to CMEs. III. Shock-Associated CME/EUV Wave in an Event with a Two-Component EUV Transient			
200	<input type="checkbox"/> 2012esrs.book..127G	1.00 00/20 0 12	A	E U	T

	Grechnev, V. V.; Uralov, A. M.; Chertok, I. M.; Kuzmenko, I. V.; Afanasyev, A. N.; Meshalkina, N. S.; Kalashnikov, S. S.; Kubo, Y.	Coronal Shock Waves, EUV Waves, and Their Relation to CMEs. I. Reconciliation of "EIT Waves", Type II Radio Bursts, and Leading Edges of CMEs
199	<input type="checkbox"/> 2011SoPh..273..461G Grechnev, V. V.; Afanasyev, A. N.; Uralov, A. M.; Chertok, I. M.; Eselevich, M. V.; Eselevich, V. G.; Rudenko, G. V.; Kubo, Y.	1.00 11/20 A E X R C 0 11 O U Coronal Shock Waves, EUV Waves, and Their Relation to CMEs. III. Shock-Associated CME/EUV Wave in an Event with a Two-Component EUV Transient
198	<input type="checkbox"/> 2011SoPh..273..433G Grechnev, V. V.; Uralov, A. M.; Chertok, I. M.; Kuzmenko, I. V.; Afanasyev, A. N.; Meshalkina, N. S.; Kalashnikov, S. S.; Kubo, Y.	1.00 11/20 A E X R C 0 11 O U Coronal Shock Waves, EUV Waves, and Their Relation to CMEs. I. Reconciliation of "EIT Waves", Type II Radio Bursts, and Leading Edges of CMEs
197	<input type="checkbox"/> 2011BRASP..75.1571C Chertok, I. M.; Belov, A. V.; Grechnev, V. V.	1.00 11/20 E 0 11 Erratum to: "Dependence of Forbush-Decrease Magnitudes on Parameters of Solar Eruptions"
196	<input type="checkbox"/> 2011ARep...55..637G Grechnev, V. V.; Kuzmenko, I. V.; Chertok, I. M.; Uralov, A. M.	1.00 07/20 A E X R C 0 11 U Solar flare-related eruptions followed by long-lasting occultation of the emission in the He II 304 Å line and in microwaves
195	<input type="checkbox"/> 2011BRASP..75..796C Chertok, I. M.; Belov, A. V.; Grechnev, V. V.	1.00 06/20 E R C 0 11 Dependence of Forbush-decrease magnitudes on parameters of solar eruptions

194	<input type="checkbox"/>	2010cosp...38.1796G	1.00 00/20 0 10	A	F	T		On the onset and propagation of CMEs and associated coronal waves
		Grechnev, Victor; Uralov, Arkadiy; Chertok, Ilya; Afanasyev, Andrey						
193	<input type="checkbox"/>	2009ARep...53.1059C	1.00 11/20 0 09	A	E		R C	On the correlation between spectra of solar microwave bursts and proton fluxes near the Earth
		Chertok, I. M.; Grechnev, V. V.; Meshalkina, N. S.						
192	<input type="checkbox"/>	2009SoSyR..43..143B	1.00 04/20 0 09	A	E		R C	On the processing and analysis of the data of the CORONAS-F/SPIRIT and other solar experiments
		Bogachev, S. A.; Grechnev, V. V.; Kuzin, S. V.; Slemzin, V. A.; Bugaenko, O. I.; Chertok, I. M.						
191	<input type="checkbox"/>	2009ARep...53..355C	1.00 04/20 0 09	A	E		R C	Large-scale phenomena on the Sun associated with the eruption of filaments outside active regions: the event of September 12, 1999
		Chertok, I. M.; Grechnev, V. V.; Uralov, A. M.						
190	<input type="checkbox"/>	2008SoPh..253..263G	1.00 12/20 0 08	A	E U	X	R C	Absorption Phenomena and a Probable Blast Wave in the 13 July 2004 Eruptive Event
		Grechnev, V. V.; Uralov, A. M.; Slemzin, V. A.; Chertok, I. M.; Kuzmenko, I. V.; Shibasaki, K.						
189	<input type="checkbox"/>	2008SoPh..252..149G	1.00 10/20 0 08	A	E U	X	R C	An Extreme Solar Event of 20 January 2005: Properties of the Flare and the Origin of Energetic Particles
		Grechnev, V. V.; Kurt, V. G.; Chertok, I. M.; Uralov, A. M.; Nakajima, H.; Altyntsev, A. T.; Belov, A. V.; Yushkov, B. Yu.; Kuznetsov, S. N.; Kashapova, L. K.; and 2 coauthors						

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| 188 | <input type="checkbox"/> | 2008JASTP..70..334Y | 1.00 02/20
0 08 | A E | R C | Yermolaev, Yu I.; Zelenyi, L. M.; Kuznetsov, V. D.; Chertok, I. M.; Panasyuk, M. I.; Myagkova, I. N.; Zhitnik, I. A.; Kuzin, S. V.; Eselevich, V. G.; Bogod, V. M.; and 3 coauthors | Magnetic storm of November, 2004: Solar, interplanetary, and magnetospheric disturbances |
| 187 | <input type="checkbox"/> | 2006ARep...50.1013S | 1.00 12/20
0 06 | E
U | R C | Shakhovskaya, A. N.; Livshits, M. A.; Chertok, I. M. | The role of plasma ejections in the development of large solar flares of various durations |
| 186 | <input type="checkbox"/> | 2006SoSyR..40..286G | 1.00 07/20
0 06 | A E | R C | Grechnev, V. V.; Kuzin, S. V.; Urnov, A. M.; Zhitnik, I. A.; Uralov, A. M.; Bogachev, S. A.; Livshits, M. A.; Bugaenko, O. I.; Zandanov, V. G.; Ignat'ev, A. P.; and 6 coauthors | Long-lived hot coronal structures observed with CORONAS-F/SPIRIT in the Mg XII line |
| 185 | <input type="checkbox"/> | 2006ARep...50...68C | 1.00 01/20
0 06 | A E | R C | Chertok, I. M. | Large-scale activity in major solar eruptive events of November 2004 according to SOHO data |
| 184 | <input type="checkbox"/> | 2006AdSpR..38..451K | 1.00 01/20
0 06 | A E | C | Kuzin, S.; Chertok, I.; Grechnev, V.; Slemzin, V.; Bugaenko, O.; Zhitnik, I.; Ignat'Ev, A.; Pertsov, A. | CME-associated dimmings on the Sun observed with the EUV SPIRIT telescope on the CORONAS-F spacecraft |
| 183 | <input type="checkbox"/> | 2006cosp...36..850Y | 1.00 00/20
0 06 | A | T | Yermolaev, Yu. I.; Zelenyi, L. M.; Kuznetsov, V. D.; Chertok, I. M.; Panasyuk, M. I.; Zhitnik, I. A.; | November, 2004 magnetic storm: Solar, heliospheric, and magnetospheric disturbances |

See'04 Collaboration Team

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177	<input type="checkbox"/>	2005ARep...49..155C	1.00 02/20 0 05	A U	E	R C	Chertok, I. M.; Grechnev, V. V. Large-scale activity in solar eruptive events of October November 2003 observed from SOHO/EIT data
176	<input type="checkbox"/>	2005A&AT...24...45C	1.00 02/20 0 05	A	E F	R C	Chertok, I. M.; Fomichev, V. V.; Gnezdilov, A. A.; Gorgutsa, R. V.; Markeev, A. K.; Sobolev, D. E. Violent solar events of October-November 2003 as recorded by IZMIRAN radio observations
175	<input type="checkbox"/>	2005IAUS..226..167C	1.00 00/20 0 05	A	F G	T R C	Chertok, I.; Grechnev, V. Large-Scale Activity Initiated BY Halo CMEs
174	<input type="checkbox"/>	2005IAUS..226...21S	1.00 00/20 0 05	A	F G U	T R	Slemzin, V. A.; Grechnev, V. V.; Zhitnik, I. A.; Kuzin, S. V.; Chertok, I. M.; Bogachev, S. A.; Ignatiev, A. P.; Pertsov, A. A.; Lisin, D. V. EUV observations of CME-associated eruptive phenomena with the CORONAS-F/SPIRIT telescope/spectroheliograph
173	<input type="checkbox"/>	2004CosRe..42..435V	1.00 09/20 0 04	A	E U	C	Veselovsky, I. S.; Panasyuk, M. I.; Avdyushin, S. I.; Bazilevskaya, G. A.; Belov, A. V.; Bogachev, S. A.; Bogod, V. M.; Bogomolov, A. V.; Bothmer, V.; Boyarchuk, K. A.; and 65 coauthors Solar and Heliospheric Phenomena in October-November 2003: Causes and Effects
172	<input type="checkbox"/>	2004ARep...48..407C	1.00 05/20 0 04	A	E	R C	Chertok, I. M.; Slemzin, V. A.; Kuzin, S. V.; Grechnev, V. V.; Bugaenko, O. I.; Zhitnik, I. A.; Ignat'ev, A. P.; Pertsov, A. A. Analysis of a Solar Eruptive Event on November 4, 2001, Using CORONAS-F/SPIRIT Data

171	<input type="checkbox"/>	2004JGRA..109.2112C	1.00 02/20 0 04	A E U	R C	Chertok, I. M.; Grechnev, V. V.; Hudson, H. S.; Nitta, N. V. Homologous large-scale activity in solar eruptive events of 24-26 November 2000
170	<input type="checkbox"/>	2004IAUS..223..533S	1.00 00/20 0 04	A E F G	T R C	Slemzin, V.; Chertok, I.; Grechnev, V.; Ignat'ev, A.; Kuzin, S.; Pertsov, A.; Zhitnik, I.; Delaboudinière, J.-P. Multi-wavelength observations of CME-associated structures on the Sun with the CORONAS-F/SPIRIT EUV telescope
169	<input type="checkbox"/>	2004IAUS..223..451C	1.00 00/20 0 04	A E F G	T R	Chertok, I.; Grechnev, V. Large-scale activity observed on the solar disk in association with CMEs
168	<input type="checkbox"/>	2004cosp...35.2676K	1.00 00/20 0 04	A	T	Kuzin, S.; Chertok, I.; Grechnev, V.; Slemzin, V.; Bugaenko, O.; Zhitnik, I.; Ignat'ev, A.; Pertsov, A. CME-associated dimmings on the Sun observed with the EUV SPIRIT telescope on the CORONAS-F spacecraft
167	<input type="checkbox"/>	2003AGUFMESH22A0180C	1.00 12/20 0 03	A		Chertok, I. M.; Grechnev, V. V.; Hudson, H. S.; Nitta, N. V. Homologous large-scale activity in solar eruptive events of November 24-26, 2000
166	<input type="checkbox"/>	2003ARep...47..934C	1.00 11/20 0 03	A E	R C	Chertok, I. M.; Grechnev, V. V. Large-scale Dimmings Produced by Solar Coronal Mass Ejections According to SOHO/EIT Data in Four EUV Lines

165	<input type="checkbox"/>	2003ESASP.535..435C	1.00 09/20 0 03	A	F	G	T	C	Chertok, I. M.; Grechnev, V. V. Manifestations of CME-associated dimmings at four EUV wavelengths of SOHO/EIT	
164	<input type="checkbox"/>	2003SoPh..214..177T	1.00 05/20 0 03	A	E			R	C	Torsti, Jarmo; Kocharov, Leon; Laivola, Jarno; Chertok, Ilya; Thompson, Barbara J. High-Energy ³ He-Rich Solar Particle Events
163	<input type="checkbox"/>	2003ARep...47..139C	1.00 02/20 0 03	A	E			R	C	Chertok, I. M.; Grechnev, V. V. Solar Large-Scale Channeled Dimmings Produced by Coronal Mass Ejections
162	<input type="checkbox"/>	2002ESASP.506..569C	1.00 12/20 0 02	A	F	G	T			Chertok, I. M.; Hudson, H. S.; Kahler, S. W. Unusual large-scale flaring structure
161	<input type="checkbox"/>	2002ESASP.506..117C	1.00 12/20 0 02	A	F	G	T	C		Chertok, I. M.; Grechnev, V. V. SOHO/EIT data on global canalized dimmings in halo CME events
160	<input type="checkbox"/>	2002A&A...396..683P	1.00 12/20 0 02	A	E	F		R	C	Pohjolainen, S.; Hildebrandt, J.; Karlický, M.; Magun, A.; Chertok, I. M. Prolonged millimeter-wave radio emission from a solar flare near the limb
159	<input type="checkbox"/>	2002ESASP.508..387C	1.00 06/20 0 02	A	F	G	T	R		Chertok, I. M. Large-scale emitting chains in the global solar

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Chertok, I. M. Solar large-scale emitting chains: some CME-associated
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152	<input type="checkbox"/>	2000ITAS...10..154C	1.00 03/20 0 00	E					
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151	<input type="checkbox"/>	2000AdSpR..25.1901C	1.00 00/20 0 00	A	E		R	C	
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149	<input type="checkbox"/>	1999spro.proc..181C	1.00 12/19 0 99	A			T		
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148	<input type="checkbox"/>	1999spro.proc..175C	1.00 12/19 0 99	A			T		
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147	<input type="checkbox"/>	1999ESASP.446..229C	1.00 10/19 0 99	A	F	G	T	R	C
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144	<input type="checkbox"/>	1998cee..workE..30C	1.00 00/19 0 98	A	T	Chertok, I. M.; Fomichev, V. V.; Gorgutsa, R. V.; Hildebrandt, J.; Kruger, A.; Shibasaki, K.	Microwave counterparts of rising soft X-ray post-flare giant arches
143	<input type="checkbox"/>	1998cee..workE..29C	1.00 00/19 0 98	A	T	Chertok, I. M.; Shibasaki, K.	Microwave large-scale shining chains and their relation to CME/LDE events
142	<input type="checkbox"/>	1998asct.conf..201C	1.00 00/19 0 98		T	Chertok, Iliia M.	Post CME Energy Release in the Corona and Associated Solar-terrestrial Disturbances
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