

# Pangoladhenna Mataare: Patodhu Pangangguyen



*Gerhana Mataare Total*  
*Senin, 8 April 2024*

ECLIPSE.org  
2024



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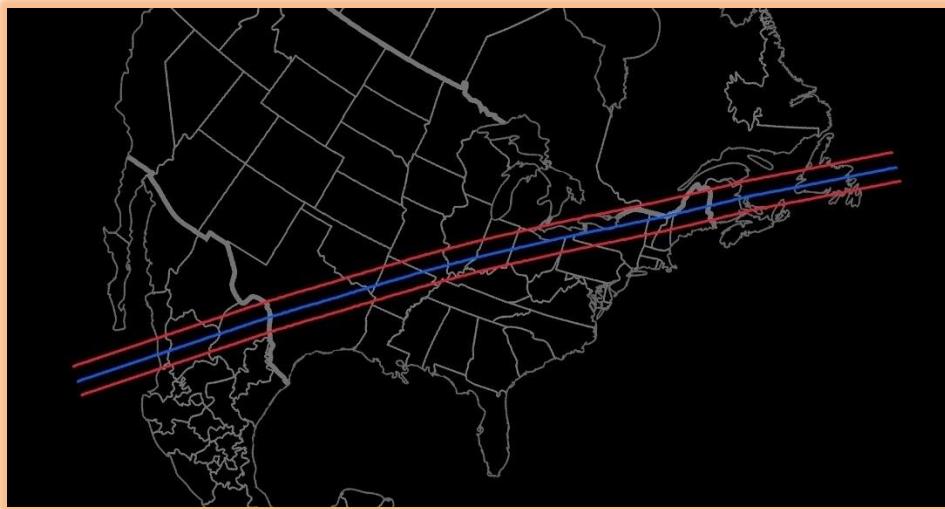
## **GERHANA MATAARE TOTAL – 8 April 2024**

### **Matarsakalangkong Rabu epon e Amerika Dheje!**

Badhan kaule sadheje apangrasa kapoji pola epon panjennengan ampon mele arabui ka nagerena Badhan kaule ka angguy ngoladhi gerhana mataare total, ben kaule terro sopaje sadhejena oreng mampo ka angguy ngoladhi kadeddhien se ce' loar biasana panika kalaben sae ben aman!

*Badhan kaule nyadia agi patodhu panika khusus dalem besa Madhure ka angguy ka saeanna panjennengan sadheje. Begien dalem besa Inggris deri patodhu, atoran, tor benta'an ("Patodhu") panika, enggi panika somber informasi tor patodhu se lengkap ka angguy aguna'agi pangoladhenna mataare se teppa' tor bender e bekto ngoladhi mataare kalaben langsung. Patodhu panika e sadia agi e <https://tinyurl.com/2024Instructions>, tor panjennengan kodu maos, ngagheli, tor noro' e dalem cara epon ngangguy Pangoladhenna Mataare panika. Kata' sampornaan dalem noro' e patodhu panika kenging anyabeb agi loka se sarah ka pangoladenna panjennengan.*

Sadhejena astronom anyimpul agi je' gerhana se bekal kadeddhien e tanggal 8 April 2024 panika menangka "gerhana total", nangeng manabi panjennengan badha pangaterro ka angguy ngoladhi se fase total, panjennengan kodu badha e dalem settong kennengan se ce' cope'na se alebedhi Amerika Dheje (e sebbut "Jelorra Gerhana Total"). Manabi panjennengan tadhe' e settong kennengan genika, panjennengan pera' mampo ngoladhi gerhana mataare sabegien!. Marge panika, ce' pentengnga ka angguy ngoninge ponapa panjennengan ampon badha e jelorra Gerhana Total gepanika, ben tata cara ka angguy aguna'agi bekal e jellas agina kalaben rengkes.



*Jelorra Gerhana Total*

### **PATODHU SE RENGKES**

Katantoan' "Pangoladhenna Mataare", sami epon sareng se e angguy e dalem dokumen panika, e guna agi ka angguy abekkele "Eclipse Glasses" se ampon e sebbut agi delem benta'an Besa Inggris se ka toles e begien awwal tor kasebbut e begien laen dalem patodhu panika.

Pangangguyen Pangoladhenna Mataare se panjennengan lakoni ka angguy ngoladhi mataare enggi panika saongguna aropa parjenjen se resmi. Panjennengan kodhu ce' lerresse tor kodhu noro'e sadhejena se badha e patodhu tor atoran se katoles e dalem dokumen patodhu panika, e dalem sabben bekto panjennengan aguna'agi Pangoladhenna Mataare panika ka angguy ngoladhi Mataare. Manabi panjennengan tak ngagheli ka patodhu panika, otabe manabi panjennengan tak mampo noro'e sadhejena patodhu kalaben lengkap tor bender, otabe manabi panjennengan ta' satuju sareng katantoan panika, maka panjennengan e pakon tor e saran agi ka angguy ta' nyoba'a gebey ngoladhi Mataare sama sakale, ngangguyye cara napa'a bei.

### **PATODHU SE EBIRJI'**

## PATODHU RENGKES AGUNA'AGI PANGOLADHENNA MATAARE

Patodhu rengkes panika e rengkes deri [birji'anna patodhu e dalem besa Madhure](#), se kodu panjennengan maosse, pahami, tor toro'e sadhejena epon dalem aguna'agi Pangoladhenna Mataare ka angguy ngoladhi gerhana.

- 1) Sare kennenganna panjennengan e [eclipse2024.org/find-times](https://eclipse2024.org/find-times), tor nyare oning ponapa gerhana Mataare total panika bekal kadeddhien e kennenganna panjennengan, tor parkera agi bekto kontak ka angguy fase sabegien tor fase total (manabi badha) e kennengan genika.
- 2) Gerhana total enggi panika soato kadeddhien se ce' spektakulerra, namung panjennengan pera' bisa arassa'agi gerhana sacara kabbianna manabi panjennengan badha e dalem "jelorra gerhana total" – se leberra ra kera pera' 200km. Bila epon gerhana total ta' mabi e oladhi deri kennengan pangoladhen se ampon panjennengan rencana agi, Badhan kaule nyaran agina ka panjennengan ka angguy ngalle ka kennengan se badha e dalem jelorra gerhana total!
- 3) Dalem aguna'agi Pangoladhenna Mataare ka angguy ngoladhi gerhana, teggu' bahanna lensa deri Pangoladhen Mataare langsung e attase socahna panjennengan, saengge socahna panjennengan ta lendhung onggu deri Mataare se e oladhi sacara langsung.
- 4) Kadhiponapa carana ngangguy Pangoladhenna Mataare ka angguy ngoladhi Mataare:
  - a. Manabi **BENNI** gerhana total e kennenganna panjennengan, saterrosepon paggunna panjennengan ngoladhi ngangguy Pangoladhenna Mataare e sabban bekto. **PANJENNENGAN GEDHUEU RESIKO NGALAMI ROSAGGE SOCAHNA PANJENNENGAN SACARA TETTEP MANABI PANJENNENGAN NGOLADHI MATAARE KALABEN TA' NGANGGUY PARLENDHUNGAN SE TEPPA'**
  - b. Manabi **BEKAL BADHA** gerhana total e kennenganna panjennengan, saterrosepon paggunna panjennengan ngoladhi ngangguy Pangoladhenna Mataare e sadhejena begien-begien Mataare se tera' – maskena begien genika keni' parana se bisa e oladhi. **PANJENNENGAN GEDHUEU RESIKO NGALAMI ROSAGGE SOCAHNA PANJENNENGAN SACARA TETTEP MANABI PANJENNENGAN NGOLADHI MATAARE KALABEN TA' NGANGGUY PARLENDHUNGAN SE TEPPA'**
    - i. Namung, **PERA' e dalem bekto se pende' deri fase total**, enggi panika e bekto sobhung sama sakale begien tera' deri bunderranna Mataare se bisa e oladhi, panjennengan kodhu ngoladhi sacara langsung gerhana total tambu ngangguy Pangoladhenna Mataare.
    - ii. Kanyata'anna, manabi panjennengan nyoba ngangguy Pangoladhenna Mataare ka angguy ngoladhi Mataare e bekto fase total, panjennengan bekal ta' nangale panapan!
    - iii. Panjennengan **KODHU** ngangguy Pangoladhenna Mataare sacepetddha e bekto fase total lastare, tor begien terang dari bunderranna Mataare ampon e kenning oladhi pole.
- 5) Kalaben sebuddhen laen,

**NALEKANA NGOLADHI BADHA BEGIEN TERA' E BUNDERRENNAA MATAARE,  
PANJENNENGAN KODHU NGANGGUY PANGOLADHENNA MATAARE PANIKA  
KA ANGGUY NGOLADHI MATAARE!**

## PATODHU SE EBIRJI' AGUNA'AGI PANGOLADHENNA MATAARE

Kapeng settong, badha pan-saponapan sebuddhen se parlo panjennengan kagheli!

Kagebey tong-settonga gerhana, tor kagebey tong-settonga kennengan e bumi, badha pan-saponapan nyama se e pareng agi e bekto kadaddhien penteng tartanto. Panika e kenal kalaben:

| <i>Nyama Kadeddhien</i>       | <i>Caretana Kadeddhien</i>   | <i>Bekal e Tangale enga'<br/>(kagebey Gerhana Total)</i>                             | <i>Bekal e Tangale enga'<br/>(kagebey Gerhana Sabegien)</i>                           |
|-------------------------------|------------------------------|--|---|
| <b>C1</b>                     | Permolaan deri fase sabegien |     |    |
| <b>C2</b>                     | Permolaan gerhana total      |    | ** Ta' deddhi! **   |
| <b>Nga'Tenga'anna-Gerhana</b> | Nga'tenga'an Gerhana         |  |  |
| <b>C3</b>                     | Akher gerhana total          |  | ** Ta' deddhi! **   |
| <b>C4</b>                     | Akher deri fase sabegien     |   |  |

## 1) PATODHU OMOM AGUNA'AGI PANGOLADHENNA MATAARE



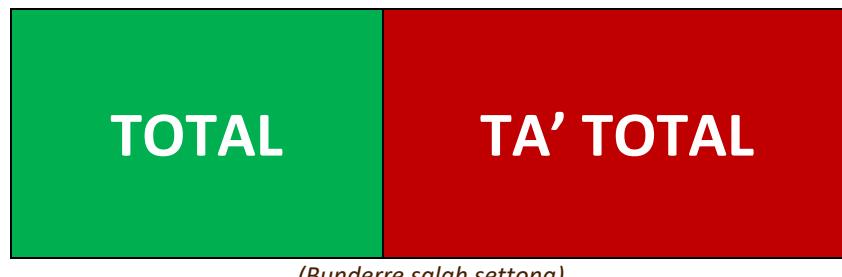
- 1) [Manabi gi' badha] Bukka' bungkossa Pangoladhenna Mataare kalaben ngastete.
- 2) Sempen Pangoladhenna Mataare dalem baddhana manabi ampon ta' e guna'agi.
- 3) Pareksa ban-sabbanna Pangoladhenna Mataare sabellunna e guna'agi, manabi e begien loarra lensa rosa' otaba kero' e sabben begin, kerra' tor pa ancor Pangoladhenna Mataare ganeka, pas [gante sareng se gi ta' rosa'](#).
- 4) Manabi e begien loarra lensa rosa' e beginan ka' dhimma'a epon, je' guna'agi Pangoladhenna Mataare genika ka angguy ngoladhi mataare.
- 5) Je' sampe' nyotot lensa dari Pangoladhenna Mataare, tor je' a guna agi lensa se la cotot ka angguy ngoladhi mataare.
- 6) Kennengan se bendher, lensa se ta' rosa' deri Pangoladhenna Mataare bekal mampo a lendhungi kalaban aman deri tingkaddhenna babaja dari sonar se ta' paddheng, tor deri sonarra UV se babaja tor sonarra mataare se laen epon. Milana gepanika saos ce' amanna ka angguy aguna'agi Pangoladhenna Mataare panika minorot patodhu se e pareng agi ka' dhinto, e sabban bekto panjennengan ngoladhi mataare. Sobhung "sonarra gerhana mataare" khususse se agebay ropa deri Mataare a deddi e lebbi otaba korang babaja e bekto gerhana gi' ajelen.
- 7) **Panjennengan kodhu aguna'agi Pangoladhenna Mataare, kalaban carah se ampon e jeber agi e ka'dinto, ka angguy ngoladhi Mataare kalaben aman E KA' DHIMMA'A EPON begin bunderran tera'na mataare se e tangale. Ganeka ta' bisa tapesa deri sabban bekto kadeddhien kontak deri gerhana (enggi panika, "C2" tor "C3" padhana se ampon e jelas agi e attas) se ampon e pondhut deri somber ka'emba epon.**
- 8) Ta' kengeng a guna'agi Pangoladhenna Mataare a bareng sareng teleskop, teropong, kamera, lensa, kaca, otabe alat optik se laen, perangkat otaba obje' se bisa ngerem agi otaba mantol agi binar ("perangkat optik").
- 9) Ta' kengeng ma ngadep agi perangkat optik napa'a bai se e patoju otaba ngaddep langsung ka Mataare, tor ta' kengen ka angguy ngoladhi gambarra mataare kalaben langsung aguna'agi perangkat optik se ngaddep ka mataare, otaba kalaben cara napa a bei ka angguy ngopol agi, ma fokus agi, otaba ma ngaddep agi ka binarra Mataare.
- 10) Ta' kengeng ma ngangguy Pangoladhenna Mataare ka keban, otaba oreng-oreng se ta' pate genna pekkeranna, ta' bisa maca, ta' bisa ngagheli tor ta' cokop sarat ka angguy aguna'agi Pangoladhenna Mataare panika kalaben aman, otaba menorot hokom mampo narema a tanggungan se bisa e sabeb agi kalaben tengka polana oreng genika.
- 11) Ka angguy aguna'agi Pangoladhenna Mataare:  
Teggu' pangoladhenna Mataare e antarana socah tor Mataare, tor oladhi lebet lensana Pangoladhenna Mataare se gi ta' rosa' ka arana Mataare, jaga lensana Pangoladhenna Mataare kalaben ce' lerressa sopaje tettep badha e antarana socah tor Mataare e sabban bekto. E dalem perkara Pangoladhenna Mataare se a bentu' Pangoladhen deri bahan karton, panjennengan kengeng a leppet karton genika sa sae na Panjennengan padana se panjennengan ka lako ka Pangoladhen konvensional. Ta' kengeng ngoladhi langsung ka arana Mataare ebekto benni dalem kabadha'en gerhana total (enggi panika, e bekto masana C2 tor C3 se bisa panjennengan oladhi dalem grafik e bâbâ panika, manabi hal ka'dhissa badha e kenenganna panjennengan ngoladhi), tarkacoale bila epon panjennengan ngoladhi langsung ngangguy lensana Pangoladhena Mataare se ta' rosa'.
- 12) Ta' kengeng aguna'agi materi otaba bereng, salaenna deri lensana Pangoladhenna Mataare se e pasang e kenenganna padhana se bekto awal e kagabay, kaangguy a lendhungi socah e bekto nyoba' ngoladhi mataare.
- 13) Manabi panjennengan gedhuen petanya'an ka angguy patodhu panika, e atore ngubungi Eclipse2024.org e <https://tinyurl.com/glasses-questions>.



## 2) AJAR BEKTO-BEKTO KHUSUS KADEDDHIAN GERHANA KA ANGGUY KENNENGANNA PANJENNENGAN

A desar kalaban informasi se e pareng agi e [eclipse2024.org/find-times](https://eclipse2024.org/find-times) ka angguy kennenganna panjennengan, pa genna' oca' ka'dinto:

*Ka angguy Kennenganna kaula, gerhana enggi ka'dhinto:*



(Bunderre salah settong)

Manabi gerhana **TOTAL** e kennenganna panjennengan, toro' e patodhu se badha e dalem

**“GERHANA  
TOTAL  
KA ANGGUY  
KENNENGANNA KAULA”**

Begian e bâbâ panika:

Manabi gerhana **TA' TOTAL** e kennenganna panjennengan, toro' e patodhu se badha e dalem

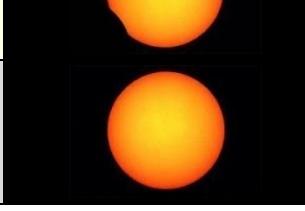
**“GERHANA  
TA' TOTAL  
KA ANGGUY  
KENNENGANNA KAULE”**

Begian e bâbâ panika:

## **\*\* GERHANA TOTAL KA ANGGUY KENNENGANNA KAULA \*\***

Panjennengan badha e jalorra gerhana total, tor bekal ngalami kadeddhian se ce' malaradde e temmoi ban ce' esa' ge! Hal ka'dhinto talebet parlo ka angguy panjennengan sopaje bisa nanto agi bila epon gerhana total panika bekal kadeddhien e kennenganna panjennengan. Panjennengan bekal mampo nanto agi kalaben a desar ka bekto-bekto se ampon panjennengan ka onenge e bâbâ panika, tor jugan milana ta' bekal badha bagien tera' e bunderenna Mataare se ka oladhi e bekto fase total.

- 1) A desar ka informasi se e pareng agi sareng [eclipse2024.org/find-times](https://eclipse2024.org/find-times) ka angguy kennenganna panjennengan, toles agi parkera'an bekto ka angguy sabben fase gerhana e bâbâ panika (Paste agi panjennengan [ngator bekto menorot ka zona bekto e kennenganna panjennengan!](#)):

|                                    |  |  |  |   |   |
|------------------------------------|--|--|--|---|---|
| <b>Sabellumma<br/>C1</b>           | <b>* Tadhe' gerhana *</b>                        |  |    |    | Panjennengan<br><b>KODHU</b> aguna'agi<br>Pangoladhenna<br>Mataare      |
| <b>C1</b>                          | <b>Fase sabegien e molae bekto:</b>              |  |    |    | Panjennengan<br><b>KODHU</b> aguna'agi<br>Pangoladhenna<br>Mataare      |
| <b>C2</b>                          | <b>Fase total e molae bekto:</b>                 |  |   |   | <b>SALASTARENA C2,</b><br>Panjennengan bisa<br>ngoladhi sareng<br>socah |
| <b>Nga'tenga'an<br/>na-gerhana</b> | <b>Kadeddhien e bekto:</b>                       |  |  |  | Panjennengan<br>bisa ngoladhi<br>ngangguy<br>socah!                     |
| <b>C3</b>                          | <b>Dhibudhina<br/>Fase total e<br/>bekto:</b>    |  |  |  | Panjennengan<br><b>KODHU</b> aguna'agi<br>Pangoladhenna<br>Mataare pole |
| <b>C4</b>                          | <b>Dhibudhina<br/>Fase sabegien<br/>e bekto:</b> |  |  |  | Panjennengan<br><b>KODHU</b> aguna'agi<br>Pangoladhenna<br>Mataare      |
| <b>Salastarena<br/>C4</b>          | <b>* Tadhe' gerhana *</b>                        |  |  |  | Panjennengan<br><b>KODHU</b> aguna'agi<br>Pangoladhenna<br>Mataare      |

- 2) Maskena panjennengan badha e dalem jelorra gerhana total, Panjennengan gi' kodhu aguna'agi Pangoladhenna Mataare ka angguy ngoladhi mataare e sabban bekto sabellunna C2 otaba salastarena C3, e bekto gerhana ta' total.
- 3) Panjennengan bisa langsung ngoladhi Mataare ngangguy socah (ta' mabi Pangoladhenna Mataare) COMAN:
  - a) Manabi gerhana total e kennenganna panjennengan ("badha e jelor"), TOR
  - b) E bekto gerhana total (ra kera e bekto masana deri C2 ka C3 ka angguy kennenganna panjennengan ampon panjennengan toles e attas), TOR
  - c) **Sabban bekto bunderranna Mataare se nyonar ampon SAKABBINA ta totop kalaben bulan.**

Bekto sabendherre deri gerhana total sa ongguna bekal a macem minorot ka kennenganna panjennengan tor panjennengan kodhu ngidentifikasi tor nyatet bekto se ampon e parkera agi. Bekto se panjennengan catet e attas enggi panika bekto parkeraan!

- 4) Sakalenaggi', ta' lopot deri sala settong catetdhan e dalem daftar e attas, otabe se e kompol agi deri somber laenna, **Panjennengan kodhu terros ngoladhi mataare kalaben agguna'agi Pangoladhenna Mataare e sabban bekto BEGIEN bunderranna Mataare e tangale.**
  - 5) Patodhu panika e toro'e kalaben tamba'an abentu' grafis se e jeber agi ka angguy bentoan sopaje bisa e kagheli.
- 

**Panjennengan kodhu maos, ngagheli, tor patoh ka parnyataan panika:**

**KAULA KODHU NORO'E SADHEJENA PATODHU AGUNA'AGI  
PANGOLADHENNA MATAARE PANIKA, SOPAJE AMAN KA  
ANGGUY E GUNA'AGI.**

**MANABI BADHA BEGIAN DERI BUNDERRANNA  
MATAARE SE TERA', KAULA KODHU WAJIB NGANGGUY  
PANGOLADHENNA MATAARE PANIKA DALEM  
NGOLADHI MATAARE.**

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## **\*\* GERHANA TA' TOTAL KA ANGGUY KENNENGANNA KAULA \*\***

Panjennengan banni e jelorra gerhana total, tor saenggah panjennengan ta' bekal ngalami ka saean deri gerhana total. (Badhan kaula ce' nyaran agina sopaje panjennengan ngalle kennenganna panjennengan ka dalem kennengana se tamaso' ka jelorra gerhana total, sopaje bisa a rassa' agi tor abegi caretta se ce' ta' biasana panika!)

- 1) A desar ka informasi se e pareng agi sareng [eclipse2024.org/find-times](https://eclipse2024.org/find-times) ka angguy kennenganna panjennengan, toles agi parkera'an bekto ka angguy sabben fase gerhana e bâbâ panika (Paste agi panjennengan [ngator bekto menorot ka zona bekto e kennenganna panjennengan!](#)):

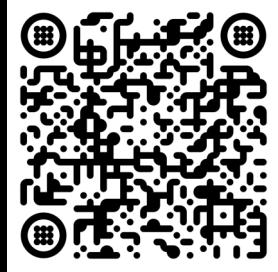
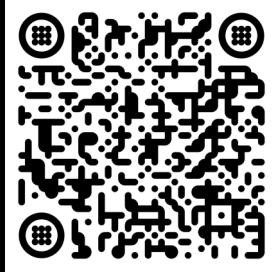
|                                    |                                      |  |   |   |   |
|------------------------------------|--------------------------------------|--|---|---|---|
| <b>Sabelumma<br/>C1</b>            | <b>* Tadha' gerhana *</b>            |  |    |    | Panjennengan<br><b>KODHU</b> ngangguy<br>Pangoladhenna<br>Mataare |
| <b>C1</b>                          | <b>Fase sabegien e mulae bekto:</b>  |  |    |    | Panjennengan<br><b>KODHU</b> ngangguy<br>Pangoladhenna<br>Mataare |
| <b>Nga'tenga'an<br/>na-gerhana</b> | <b>Molae bekto:</b>                  |  |   |    | Panjennengan<br><b>KODHU</b> ngangguy<br>Pangoladhenna<br>Mataare |
| <b>C4</b>                          | <b>Fase sabegien e akhere bekto:</b> |  |   |   | Panjennengan<br><b>KODHU</b> ngangguy<br>Pangoladhenna<br>Mataare |
| <b>Salastarena<br/>C4</b>          | <b>* Tadha' gerhana *</b>            |  |  |  | Panjennengan<br><b>KODHU</b> ngangguy<br>Pangoladhenna<br>Mataare |

(Perhate agi je' e ka'dhinto sobhung bekto C2 tor C3 e daftar, milana gerhana total benni e kennenganna panjennengan!)

- 2) Milana gerhana ta' total e kennenganna panjennengan, panjennengan kodhu terros aguna'agi Pangoladhenna Mataare ka angguy ngoladhi mataare. Sekalen aggi', Badhan kaula nyaran agi panjennengan mios ka jelorra gerhana total. Paste agi ka angguy a bekta Pangoladhenna Mataare, saenggana panjennengan bisa aman dalem ngoladhi fase gerhana sabegien/sabegien!
- 3) Patodhu panika e toro'e kalaben tamba'an abentu' grafis se e jeber agi ka angguy bentoan sopaje bisa e kagheli.

**Panjennengan kodhu maos, ngagheli, tor patoh ka parnyataan panika:**

**KAULA KODHU NORO'E SADHEJENA PATODHU AGUNA'AGI  
PANGOLADHENNA MATAARE, SOPAJE AMAN KA ANGGUY EGUNA'AGI.  
  
KAULA KODHU TERROS AGUNA'AGI PANGOLADHENNA  
MATAARE E BEKTO NGOLADHI MATAARE.**



PDF

Besa Madhure

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GRANDE ÉCLIPSE NORD - AMÉRICAINE  
GREAT NORTH AMERICAN ECLIPSE**

